State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT of ENVIRONMENTAL PROTECTION
AIR QUALITY, ENERGY AND SUSTAINABILITY
Division of Air Quality
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

BOB MARTIN
Commissioner

Air Pollution Control Operating Permit
Significant Modification and Preconstruction Approval

Permit Activity Number: BOP160002 **Program Interest Number: 55829**

Mailing Address	Plant Location
Steven Krynski Vice President/General Manager 800 Billinsport Rd Paulsboro, NJ 08066	PAULSBORO REFINING COMPANY LLC 800 Billingsport Rd Paulsboro Gloucester County

Initial Operating Permit Approval Date: **February 11, 2002**
Significant Modification Approval Date: **DRAFT**
Operating Permit Expiration Date: **February 10, 2022**

This significant modification is approved and issued under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). The equipment at the facility must be operated in accordance with the requirements of this permit.

This approval, in response to your application, merges the provisions of the previously approved operating permit and the changes from this significant modification into a single comprehensive permit that replaces the one previously issued.
This modification has three parts:
i) A geodesic dome will be installed on Tank 1115 (E132) as per the Alternative VOC control plan.
ii) The SRU incinerator firebox temperature and outlet oxygen concentration is being updated per 40 CFR 63 Subpart UUU.
iii) The utility plant gas turbine generator NOx lb/hr emission limit is being returned to the permit.

Equipment at the facility referenced by this significant modification **is covered by** the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. Pursuant to N.J.A.C. 7:27-22.33(e), this significant modification consists of both a preconstruction approval and operating permit approval. This operating permit does not include compliance schedules as part of the approved compliance plan.

The permittee shall submit to the Department and to the EPA a periodic compliance certification, in accordance with N.J.A.C. 7:27-22.19. The certification shall be submitted electronically through the NJDEP online web portal – Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to DEP Online shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/. The certification should be printed for submission to EPA at the address below. The schedule for compliance certifications set forth in the compliance plan in this operating permit. The annual compliance certification reporting period will cover the calendar year ending December 31. **The annual compliance certification is due to the Department and the EPA within 60 days after the end of each calendar year during which this permit was in effect.**

The annual compliance certification report may also be considered as your six-month deviation report for the period from July 1 through December 31 which is due by January 30 of each year, as required by paragraph 13 in Section E, *General Provisions and Authorities*, of this permit, if the annual compliance certification is submitted by January 30.

Your facility's current approved operating permit and any previous versions (e.g. superseded, expired, or terminated) are now available for download in the PDF format at: http://www.nj.gov/dep/aqpp/. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interested (PI) Number as instructed on the screen. A RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories, and Compliance Schedules (if needed), can be obtained by contacting your permit writer. Upon importing this information into your personal computer with RADIUS software, you will have up-to-date information in RADIUS format. RADIUS software, instructions, and help are available at the Department's website at www.state.nj.us/dep/aqpp. We also have an Operating Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any questions you may have. The Operating Permit Help Line number is 609-633-8248.

If, in your judgment, the Department is imposing any unreasonable condition of approval in this permit modification action, you may contest the Department's decision on the modification and request an adjudicatory hearing pursuant to N.J.S.A. 52:14b-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information requested in N.J.A.C. 7:27-1.32 and the information on the enclosed Administrative Hearing Request Checklist and Tracking Form.

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application. The Operating Permit Renewal Application consists of a RADIUS application and the Application Attachment available in Portable Document Format (PDF) and MS Word format at the Department's website http://www.nj.gov/dep/aqpp/applying.html (check Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: http://njdeponline.com/. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, an application for renewal of the operating permit shall include all of the information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that the Department can notify the applicant of any deficiencies in the application. This will allow the permittee to correct any deficiencies, and to better ensure that the application is administratively complete by the renewal deadline. Only applications which are timely and administratively complete will be eligible for coverage by an application shield.

Permittees that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. Details of the rule and guidance on how to prepare a plan can be found at EPA's website: www.epa.gov/ttn/emc/cam.html. In addition, CAM Plans must be included as part of the permit renewal application. Permittees that do not submit a CAM Plan may have their modification applications denied, pursuant to N.J.A.C. 7:27-22.3.

If you have any questions regarding this permit approval, please call your permit writer, Mubin Kathrada, at (609) 633-1134.

Approved by:

_____

Yogesh Doshi
Bureau of Stationary Sources

Enclosure
CC: Suilin Chan
United States Environmental Protection Agency, Region 2
Air Compliance Branch
290 Broadway
New York, New York 10007-1866

Administrative Hearing Request Checklist and Tracking Form

I. Document Being Appealed

Name of the Facility	Program Interest (PI) Number	Permit Activity Number	Issuance Date
PAULSBORO REFINING COMPANY LLC	**55829**	**BOP160002**	

II. Contact Information

Name of Person Requesting Hearing	**Name of Attorney (if applicable)**
Address:	**Address:**
Telephone:	**Telephone:**

III. Please include the following information as part of your request:

A. The date the permittee received the permit decision,
B. One printed and two PDF (or scanned) copies of the document being appealed saved on two CDs – for submitting to address 1 below;
A PDF (or scanned) copy of all documents being submitted to the Office of Legal Affairs saved on a CD – for submitting to address 2 below**;**
C. The legal and factual questions you are appealing;
D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
E. Suggested revised or alternative permit conditions;
F. An estimate of the time required for the hearing;
G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
Office of Legal Affairs
Attention: Adjudicatory Hearing Requests
401 E. State Street, P.O. Box 402
Trenton, New Jersey 08625-0402

2. Mr. Bachir Bouzid
Bureau of Stationary Sources
New Jersey Department of Environmental Protection
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
Trenton, New Jersey 08625-0420
Phone: (609) 633-2829

_____ _____
Signature **Date**

Administrative Hearing Request Checklist and Tracking Form

IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;
10. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
   Office of Legal Affairs
   Attention: Adjudicatory Hearing Requests
   401 East State Street, P.O. Box 402
   Trenton, New Jersey 08625-0402

3. Mr. Bachir Bouzid
   Bureau of Stationary Sources
   New Jersey Department of Environmental Protection
   401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
   Trenton, New Jersey 08625-0420
   Phone: (609) 633-2829

_____ _____

Signature **Date**

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

TABLE OF CONTENTS

Section A

REASON FOR PERMIT

Section B

DEFINITIONS

Section C

POLLUTANT EMISSIONS SUMMARY

Section D

POLLUTION PREVENTION REPORTING

Section E

GENERAL PROVISIONS AND AUTHORITIES

Section F

STATE-ONLY APPLICABLE REQUIREMENTS

Section G

COMPLIANCE PLAN AND INVENTORIES

Section A

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

REASON FOR PERMIT

The reason for issuance of this permit is to comply with the air pollution control permit provisions of Title V of the federal Clean Air Act, federal rules promulgated at 40 CFR 70, and state regulations promulgated at N.J.A.C. 7:27-22, which requires the state to issue operating permits to major facilities and minor facilities that are in certain designated source categories. This is the operating permit for the facility listed on the cover page, which includes a significant modification consisting of three parts:
i) A geodesic dome will be installed on Tank 1115 (E132) as per the Alternative VOC control plan.
ii) The SRU incinerator firebox temperature and outlet oxygen concentration is being updated per 40 CFR 63 Subpart UUU.
iii) The utility plant gas turbine generator NOx lb/hr emission limit is being returned to the permit.

New Jersey has elected to integrate its Title I New Source Review (NSR) preconstruction permits with the new Title V operating permits instead of issuing separate permits. Consequently, the existing preconstruction permit provisions that were previously approved for this facility have been consolidated into this permit. This permit may also include applicable requirements for grandfathered sources.

This permit action consolidates previously approved permit terms and conditions into one single permit for the facility. The New Jersey Department of Environmental Protection (Department) issues this operating permit authorizing the facility to operate equipment and air pollution control devices. In the operating permit application, the facility represented that it meets all applicable requirements of the federal Clean Air Act and the New Jersey Air Pollution Control Act codified at N.J.S.A. 26:2C. Based on an evaluation of the data contained in the facility's application, the Department has approved this operating permit.

This permit allows this facility to operate the equipment and air pollution control devices specified in this permit and emit up to a level specified for each source operation. The signatories named in the application are responsible for ensuring that the facility is operated in a manner consistent with this permit, its conditions, and applicable rules.

Section B

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

DEFINITIONS

The terms used in this permit are used consistent with the definitions at N.J.A.C. 7:27-1 and N.J.A.C. 7:27-22. Any terms defined in this section are not defined at N.J.A.C. 7:27-1 or N.J.A.C. 7:27-22, and are needed for clarifying the permit.

"Permitting Authority" means the New Jersey Department of Environmental Protection (NJDEP).

"The EPA," or the "Administrator," means the Administrator of the EPA or his designee.

"M" preceding a unit of measure means one thousand. For example, "10 M gal." means ten thousand gallons.

"MM" preceding a unit of measure means one million. For example, "10 MM gal." means ten million gallons.

"Grandfathered" means, in reference to equipment or control apparatus, that construction, reconstruction, or modification occurred prior to enactment of N.J.S.A. 26:2C-9.2 on June 15, 1967, or prior to the subsequent applicable revisions to rules and regulations codified at N.J.A.C. 7:27-8 that occurred March 5, 1973, June 1, 1976, April 5, 1985, and October 31, 1994, and no construction, reconstruction, or modification of the equipment or control apparatus has occurred since.

"Compliance Plan" means the applicable requirements, monitoring requirements, recordkeeping requirements, and submittal/action requirements detailed in Section G, Facility Specific Requirements, of the operating permit.

Section C

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all significant source operations at the facility.

Source Categories	Facility's Potential Emissions from all Significant Source Operations (tons per year)										
	Primary						Secondary				
	VOC (total)	NO_x	CO	SO_2	TSP (total)	Other (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e
Emission Units Summary	1137.179	1443.665	754.579	3613.688	351.806	72.968	552.991	552.991	0.003	309.399	4,031,000
Batch Process Summary	-	-	-	-	-	-	-	-	-	-	-
Group Summary	-	-	-	-	-	-	-	-	-	-	-
Total Emissions from Significant Source Operations[1]	1137.179	1443.665	754.579	3613.688	351.806	72.968	552.991	552.991	0.003	309.399	4,031,000

Table 2: Estimate of total emissions from all insignificant source operations and total emissions from Non-Source Fugitives at the facility.

Source Categories	Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)										
	Primary						Secondary				
	VOC (total)	NO_x	CO	SO_2	TSP (total)	Other (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)	CO_2e
Estimate of Total Emissions from Insignificant Source Operations[1]	13.44	-	-	-	-	-	-	-	-	-	-
Total Non-Source Fugitive Emissions[2]	323.0	-	-	-	0.1	-	0.1	0.1	-	-	-

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}: Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO2e: Carbon Dioxide equivalent
*Emission summary of individual HAPs and Other Air Contaminants is provided on next page.

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C 7:27-22.1.
[2]Non-Source fugitive emissions are defined at N.J.A.C 7:27-22.1 and must be included if the facility falls into one or more categories listed at N.J.A.C 7:27-22.2(a)2.

Section C

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

POLLUTANT EMISSIONS SUMMARY

The following table shows the hazardous air pollutants (HAP) emissions summary[3]:

HAP	TPY
Acrolein	0.013
Benzene	6.32
Cadmium	0.0089
Carbon Disulfide	15.0
Ethyl Benzene	1.5
Formaldehyde	1.4
Hydrogen Chloride	8.6
Hydrogen Cyanide	243.0
Hexane	19.25
Lead	0.003
Napthalene	1.5
Phenol	0.4
Polycyclic Organic Matter	0.004
Toluene	8.6
Xylene	3.8

The following table shows the "Other" air contaminants emissions summary:

Other Air Contaminant	TPY
Ammonia	0.872
Carbonyl Sulfide	15
Sulfuric Acid	51.624
Hydrogen Sulfide	5.472

[3] Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section D

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

POLLUTION PREVENTION REPORTING

General Pollution Prevention Conditions

The following evaluation requirements are included to track the facility's progress in several critical areas identified in the National Environmental Performance Partnership System (NEPPS). Nitrogen Oxides (NOx) and Volatile Organic Compounds (VOC) are precursors to the air pollutant Ozone, for which New Jersey is non-attainment with the air quality standard for the protection of public health. The control of hazardous air pollutants (HAPs) is also a focus item for the next decade in order to minimize localized hot spots and general urban air toxics levels. Therefore, the Department is requiring evaluation of emission trends at 5-year intervals for major sources of these air contaminants. Also, as part of significant modification applications, proposed major increases of these air contaminants require evaluation of pollution prevention and cross media effects.

The evaluation of these trends requires no increased monitoring. Rather it utilizes existing monitoring data, as reported annually in Emission Statements (for NOx and VOC) and annual Release and Pollution Prevention Reports (for HAPs). The intent of this evaluation is to better utilize the existing data by having the company, the public and the Department review major source trends periodically, as part of the 5-year renewal review and public comment process.

Pollution prevention includes changes that result in the reduction in use or generation of non-product output per unit of product. Cross media effects are practices that result in transferring the ultimate release or disposal of a contaminant from one environmental medium (e.g. air) to another environmental medium (e.g. water, solid or hazardous wastes).

Information to include with the renewal application:

1. The facility will evaluate annual emission trends over the last five years for actual air contaminant emissions of Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx), if the facility's potential to emit VOC or NOx is greater than 25 tons per year, or any Hazardous Air Pollutants (HAP), for which the facility's potential to emit is greater than 10 tons per year. The VOC and NOx emission data should reflect annual emission statement reports submitted pursuant to N.J.A.C. 7:27-21, and the HAP emissions data should reflect the annual Release and Pollution Prevention Report submitted pursuant to N.J.A.C. 7:1G-4 and 5 and N.J.A.C. 7:1K-6. Although not required, the Department encourages the facility to explain the reason for any significant trend, including whether it is the result of cross media shifts (to air, water, or solid waste) and/or pollution prevention. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

2. The facility will summarize annual potential to emit limits (allowable emissions) for VOC, NOx, and HAPs, which are subject to reporting under 1 above, for the last five years. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

3. The facility will summarize five-year trends in annual VOC, NOx, and HAP emissions, which are subject to reporting under 1 above, on a pound per unit of product basis, based on annual actual emissions and annual production over the five-year period. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NOx or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

4. The facility will discuss five-year trends in actual air contaminant emissions of non-source VOC and HAP fugitives, which are subject to reporting under 1 above; explain measures taken to minimize such fugitives; and provide an explanation for any significant changes.

Information to include with an application for a Significant Modification to this permit:

1. For any significant modifications, the facility is encouraged to explain any cross media shifts of VOC and HAP air contaminants as part of the significant modification application. If an explanation is provided, the facility should identify the pollutant and the specific environmental media to which the pollutant is anticipated to be transferred, whether it be from air to solid waste or water, or from water or solid waste to the air.

Section E

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

GENERAL PROVISIONS AND AUTHORITIES

Operating Permits

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. Conditions relative only to nuisance situations, including odors, are not considered Federally enforceable. [N.J.A.C. 7:27-22.16(g)8]

2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:

   If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:

   i. Immediately on the Department hotline at 1-877-927-6337, pursuant to N.J.S.A. 26:2C-19(e); and

   ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or

   If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or

   If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 P.M. of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]

3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]

4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]

5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]

7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]

8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]

9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]

10. The Department and its authorized representatives shall have the right to enter and inspect any facility subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]

11. The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27 [N.J.A.C. 7:27-22.16(g)10]

12. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]

13. In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d) 3, each permittee shall submit to the Department a six-month deviation report relating to testing and monitoring required by the operating permit, not including information for testing and monitoring which have other reporting schedules specified in the permit. Normally, stack testing reporting is submitted within 45 days of test completion and continuous monitoring reporting is done quarterly. The six-month report must address other specified monitoring, including, but not limited to, continuous and periodic monitoring data required by this permit. (See column two and three entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, in the Facility Specific Requirement Section of this permit.). The six month reports for the testing and monitoring performed from January 1 through June 30, shall be reported by July 30 of the same calendar year; or from July 1 through December 31, shall be reported by January 30 of the following calendar year. Pursuant to N.J.A.C. 7:27-22.19(e), these six month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions taken. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. The report shall be certified pursuant to N.J.A.C. 7:27-1.39 by a responsible official. The submittal procedure is listed in column entitled “Submittal/Action Requirement” in the Facility Specific Requirement Section FC of this permit. [N.J.A.C. 7:27-22.19(d) 3 and N.J.A.C. 7:27-22.19(e)]

    An annual compliance certification required by paragraph 2 above and required by N.J.A.C. 7:27-19(f) may also be considered as your six-month deviation report for the period from July 1 through December 31 which is due by January 30 of each year if the annual compliance certification is submitted by January 30.

14. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described in 15 below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.

15. For situations other than those covered by 14 above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:

    i. The violation occurred as a result of an equipment malfunction, an equipment start-up or shutdown, or during the performance of necessary equipment maintenance; and

    ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]

16. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the facility makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the facility must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The facility is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. The facility is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]

17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on-site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.

    a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

    b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.

    c. The permittee cannot use temporary mobile equipment unless the owner of the subject equipment has obtained and maintains an approved mobile preconstruction permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the temporary mobile equipment to operate at the major facility.

    d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved mobile preconstruction permit when the temporary mobile equipment operates on the property of the permittee.

    e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of ninety (90) days during any calendar year.

    f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i) 3.

    g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on-site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.

    h. Where short-term activities (employing temporary mobile equipment) will re-occur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.

18. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly

and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]

19. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]

20. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22, unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]

21. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.

22. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.

23. The permittee shall file a timely and complete application for:

    Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
    Seven-Day-Notice changes [N.J.A.C. 7:27-22.22(e)];
    Minor Modifications [N.J.A.C. 7:27-22.23(e)];
    Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
    Renewals [N.J.A.C. 7:27-22.30(b).

24. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.

Section F

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable state requirements. The applicable state requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

SECTION	SUBJECT ITEM	ITEM #	REF. #
E	---	15	---
G	FC	---	3
G	FC	---	9

Section G

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

COMPLIANCE PLAN AND INVENTORIES

- FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX
- FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)
- FACILITY PROFILE (ADMINISTRATIVE INFORMATION)
- REASON FOR APPLICATION
- NON-SOURCE FUGITIVE EMISSIONS
- INSIGNIFICANT SOURCE EMISSIONS
- EQUIPMENT INVENTORY
- EQUIPMENT DETAILS
- CONTROL DEVICE INVENTORY
- CONTROL DEVICE DETAILS
- EMISSION POINT INVENTORY
- EMISSION UNIT/BATCH PROCESS INVENTORY
- SUBJECT ITEM GROUP INVENTORY

Facility Name: PAULSBORO REFINING COMPANY LLC
Program Interest Number: 55829
Permit Activity Number: BOP160002

FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX

Subject Item and Name **Page Number**

Facility (FC):

FC – Facility Specific 1

Non-Source Fugitive Emissions (FG):

FG1 Leak Detection and Repair Program 6
FG7 Benzene Fence-line Monitoring Program 16

Insignificant Sources (IS):

IS1 Oil Storage Tanks (15) 17
IS2 Chemical Tanks (10) 17
IS3 Caustic Tanks (5) 17
IS4 Cooling Tower Chemical Tanks (12) 17
IS5 Amine Tanks (6) 17
IS6 Furfural 1 Vent 18
IS7 Furfural 2 Vent 18
IS8 Cooling Towers (12) 19
IS9 Laboratory Hoods (28) 18
IS10 LPG Loading Hose Connection 20
IS11 Non-Applicable VOC Loading Racks 21
IS13 Process Analyzer Vents 22

Groups (GR):

GR1 Group 1 23
GR2 Group 2 31
GR3 Group 3 36
GR4 Group 4 48
GR5 Group 5 62
GR6 Group 6 68
GR8 Group 8 71
GR9 Tanks exempt from doming requirements per N.J.A.C. 7:27-16.2(f)4 73

Emission Units (U):

U1 Fluid Cat Cracking Unit Regenerator with Air Preheater 74
U2 Process Heater – PtR Pretreater Heater B-1 90
U5 Process Heater – PtR B-104 92
U6 Process Heaters – CHD B-401 94
U7 SRU Complex – Clause Sulfur Plant and SCOT Tail Gas Unit 98
U8 Process Heater – Crude Unit 7 F-1A Atmospheric Heater 104
U9 Process Heater – Crude Unit 7 F-1 Atmospheric Heater 108
U10 Process Heater – Crude Unit 7 F-2 Vacuum Heater 113

U11 Process Heater – Crude Unit 6 117
U12 Process Heaters – Coker Unit (A & B) 121
U13 Process Heaters – Furfural Unit #1 (BB-1 & BB-2) 129
U14 Process Heater – Furfural 2B101 134
U15 Process Heaters (PDA BB-1 & PDA BB-2)– Propane Deasphalting Unit 137
U16 Process Heater – MLDW 142
U17 Process Heater – CHD-2 144
U18 Process Heater – Hydrogen Plant 146
U20 Utility Plant – (4) Boilers and Combustion Turbine 148
U21 South Plant Flare – Existing 171
U22 South Plant Flare - New 172
U25 North Plant Flares – Primary and Backup 173
U26 Marine Vessel Loading Vapor Recovery System w/Thermal Oxidizer 174
U49 Coker Hydrobin Storage Bins 181
U52 FCC Catalyst Loading/Unloading and Removal 182
U53 Wastewater Treatment Plant Sewer System 186
U56 SRU Thermal Oxidizer 196
U57 Internal Combustion Engines – Air Compressors and Pumps 204
U59 Bioremediation Treatment facility 219
U65 Petroleum Coke Material Handling Operations 220
U66 CCR Chlorsorb Process Vent 221
U67 Stormwater Retention System 227
U780 Tier II Heater – CCR Heater 239
U790 Tier II Heater – CCR Reboiler #1 246
U800 Tier II Heater – CCR Reboiler #2 249
U802 Multi Phase Extraction Unit 251
U810 CCR Reformate Splitter reboiler 253
U850 Fugitive Landfill Emissions 260
U900 Floating roof tanks storing VOC with a VP <= 13 psia @ 70F 261
U901 Vertical fixed roof tanks storing applicable and non-applicable VOC's 266
U902 Vertical fixed roof tanks storing applicable VOC, subject to NESHAPS FF / NSPS QQQ 279
U903 Non VOC tanks (Alky / Amine / Sulfuric acid) 289

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The Permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: Submit annual compliance certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f), within 60 days after the end of each calendar year during which this permit was in effect. [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. The annual compliance certification reporting period will cover the calendar year ending December 31. The certification shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/. The certification shall be submitted to EPA electronically through the EPA's Central Data Exchange (CDX) at https://cdx.epa.gov/ [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone:1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Report: In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d)3, the permittee shall submit to the Department a certified six-month deviation report relating to testing and monitoring required by the operating permit, not including information for stack emissions testing or continuous emissions monitoring which have other reporting schedules specified in the permit (normally, stack test report is submitted within 45 days of test completion and continuous monitor reporting is done quarterly). Pursuant to N.J.A.C. 7:27-22.19(e), the six-month report must address other specified monitoring, including continuous and periodic monitoring requirements found in column 2 and 3, entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, of the Facility Specific Requirements section of this permit. These six-month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions or preventive measures taken. If no deviations occurred, the report should say so. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. [N.J.A.C. 7:27-22.19(d)3, N.J.A.C.7:27-22.19(e), and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)].	Submit a report: As per the approved schedule. The six-month reports for other specified testing or monitoring required by the operating permit performed from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The report shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/ . [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG1 Valves, Pumps, Connectors, Flanges, and Other (agitator, comp., safety) - Leak Detection and Repair Program**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	40 CFR 60.482-2 through 60.482-10 do not apply to equipment in vacuum service. [40 CFR 60.482-1(d)]. [40 CFR 60.482]	None.	Other: Maintain records of all equipment in this catagory.[40 CFR 60.486(e)(5)].	None.
2	Equipment is excluded from the requirements of 40 CFR 60.482-2 to 40 CFR 60.482-10 if it is in VOC service less than 300 hr/yr, and it meets any of the conditions specified at 40 CFR 60.482-1(e)(1) through (3). [40 CFR 60.482-1(e)]. [40 CFR 60.482]	None.	Other: Maintain records of equipment in this catagory.[40 CFR 60.486(e)(6)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified at 40 CFR 60.485(b). [40 CFR 60.482-2(a)(1)] Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from 40 CFR 60.482-2(a), provided the requirements at 40 CFR 60.482-2(d)(1) through (6) are met. [40 CFR 60.482-2(d)]. A pump designated for no detectable emission, is exempt from 40 CFR 60.482-2(a), (c) and (d) if the requirements at 40 CFR 60.482-2(e)(1) through (3) are met. [40 CFR 60.482-2(e)]. A pump equipped with a closed vent system described at 40 CFR 60.482-2(f), is exempt from 40 CFR 60.482-2(a) through (e). [40 CFR 60.482-2(f)]. A pump designated as unsafe-to-monitor is exempt from 40 CFR 60.482-2(a), and (d)(4) through (6), if requirements 40 CFR 60.482-2(g)(1) and (2) are met. [40 CFR 60.482-2(g)]. A pump located at an unmanned plant site, is exempt from 40 CFR 60.482-2(a)(2), (d)(4) and (d)(5) provided that each pump is visually inspected as often as practicable and at least monthly. [40 CFR 60.482-2(h)]. [40 CFR 60.482]	Other: Pumps shall be monitored monthly by the methods specified in 40 CFR 60.485(b). [40 CFR 60.482-2(a)(1)] If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-2(b)(1)] Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. [40 CFR 60.482-2(a)(2)].[40 CFR 60].	Other: Record all relevant information specified at[40 CFR 60.486].	Comply with the requirement: Upon occurrence of event. When a leak is detected as specified at 40 CFR 60.482-2, 60.482-3, 60.482-7, 60.482-8, or 60.483-2, a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. [40 CFR 60.486(b)(1)] A leak shall be repaired as soon as practicable, but not later than 15 calendar days after detection. [40 CFR 60.482-2(c)(1) A first repair attempt shall be made within 5 calendar days. [40 CFR 60.482-2(c)(2)] A repair may be delayed for reasons specified at 40 CFR 60.482-9. {40 CFR 60.482-2(c)(1)]. Submit semiannual reports containing all the relevant information specified at. [40 CFR 60.487(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Except during pressure releases, a pressure relief device in gas/vapor service shall be operated with no detectable emissions determined by methods specified at 40 CFR 60.485(c). [40 CFR 60.482-4(a)]. A pressure relief device that is routed to a fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage to a control device, is exempt from 40 CFR 60.482-4(a) and (b). [40 CFR 60.482-4(c)]. An pressure relief device equipped with a rupture disk upstream of the pressure relief device is exempt from 40 CFR 60.482-4(a) and (b) provided the permittee complies with 40 CFR 60.482-4(d)(2). [40 CFR 60.482-4(d)(1)] [40 CFR 60.482]	Other: No later than 5 calendar days after the pressure release, the pressure relief device shall be monitored to confirm the conditions of no detectable emissions, indicated by an instrument reading of less than 500 ppm above background, by the methods specified at 40 CFR 60.485(c). [40 CFR 60.482-4(b)(2)].[40 CFR 60.482].	Other: Record all relevant information specified at[40 CFR 60.486].	Comply with the requirement: Other After each release, the pressure relief device shall be returned to a condition of no detectable emissions, as soon as practicable but no later than 5 calendar days after the pressure release. [40 CFR 60.483-4(b)(1)]. After each release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each event. [40 CFR 60.482-4(d)(2)]. A repair may be delayed for reasons provided in 40 CFR 60.482-9. [40 CFR 60.482-4(b)(1) and (d)(2). Submit semiannual reports containing all the relevant information specified at. [40 CFR 60.487(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Each compressor shall be equipped with a seal system and barrier fluid system that prevents leakage of VOC to the atmosphere. [40 CFR 60.482-3(a)]. Each seal system/barrier fluid system shall be operated and equipped as stipulated at 40 CFR 60.482-3(b) through (d). A compressor is exempt from 40 CFR 60.482-3(a) and (b) if it has a closed vent system that directs drive shaft leakage to a fuel gas system or a control device. [40 CFR 60.482-3(h)]. A compressor designated for no detectable emission, is exempt from 40 CFR 60.482-3(a) through (h) if the requirements at 40 CFR 60.482-3(i)(1) and (2) are met. [40 CFR 60.482-3(i)]. An existing compressor which becomes an affected facility because of a modification or a reconstruction is exempt from 40 CFR 60.482-3(a), (b), (c), (d), (e), and (h), if the owner or operator demonstrates that recasting the distance piece or replacing the compressor are the only options to bring the compressor into compliance. [40 CFR 60.282-3(j)]. [40 CFR 60.482]	Other: Each sensor shall be checked daily or shall be equipped with an audible alarm. [40 CFR 60.482-3(e)(1)] The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. [40 CFR 60.482-3(e)(2)] If the sensor indicates failure of the seal system, the barrier system, or both based by the criterion determined under 40 CFR 60.482-3(e)(2)], a leak is detected. [40 CFR 60.282-3(f)].[40 CFR 60].	Other: Record all relevant information specified at[40 CFR 60.486].	Comply with the requirement: Other : A weatherproof visible identification tag with the equipment identification number, shall be attached to the leaking equipment. [40 CFR 60.486(b)] A leak shall be repaired as soon as practicable, but not later than 15 calendar days after detection. [40 CFR 60.482-3(g)(1)] A first repair attempt shall be made within 5 calendar days. [40 CFR 60.482-3(g)(2)] A repair may be delayed for reasons specified at 40 CFR 60.482-9. [40 CFR 60.482-3(g)(1)]. Submit semiannual reports containing all the relevant information specified at. [40 CFR 60.487(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system. [40 CFR 60.482-5(a)]. Each closed-purge, closed-loop, or closed-vent system shall comply with the requirements specified in 40 CFR 60.482-5(b)(1) through (b)(4). [40 CFR 60.482-5(b)]. In situ sampling systems and sampling systems without purges are exempt from 40 CFR 60.482-5(a) and (b). [40 CFR 60.482-5(c)]. [40 CFR 60.482]	None.	Other: Record all relevant information specified at[40 CFR 60.486].	None.
7	Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. [40 CFR 60.282-6(a)(1)]. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. [40 CFR 60.282-6(a)(2)]. Each open-ended valve or line equipped with a second valve, or a double block and bleed system shall be operated as specified at [40 CFR 60.282-6(b)] and [40 CFR 60.282-6(c)]. Open-ended valves or lines designed to open automatically during an upset are exempt from 40 CFR 60.482-6(a), (b) and (c). [40 CFR 60.282-6(d)] Open-ended valves or lines with materials that autocatalytically polymerize, present an explosion, overpressure, or other safety hazard if capped or or closed, are exempt from 40 CFR 60.482-6(a) through (c). [40 CFR60.482-6(e)]. [40 CFR 60.482]	None.	Other: Record all relevant information specified at[40 CFR 60.486].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Each valve in gas/vapor or light liquid service shall be checked monthly for leaks. [40 CFR 60.482-7(a)(1)]. A valve designated for no detectable emission, is exempt from 40 CFR 60.482-7(a) if the requirements at 40 CFR 60.482-7(f)(1) through (3) are met. [40 CFR 60.482-7(f)]. A valve designated as unsafe-to-monitor, is exempt from 40 CFR 60.482-7(a) if the requirements at 40 CFR 60.482-7(g)(1) and (2) are met. [40 CFR 60.482-7(g)]. A valve designated as difficult-to-monitor, is exempt from 40 CFR 60.482-7(a) if the requirements at 40 CFR 60.482-7(h)(1) through (3) are met. [40 CFR 60.482-7(h)]. The permittee may elect to comply with the alternative monitoring procedures at 40 CFR 60.483-1 or 40 CFR 60.483-2. [40 CFR 60.483-1] and [40 CFR 60.483-2]. [40 CFR 60]	Other: Valves shall be monitored monthly to detect leaks by the methods specified in 60.485(b). [40 CFR 60.482-7(a)(1)]. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-7(b)]. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. [40 CFR 60.482-7(c)(1)(i)]. Rather than monitor all valves in the first month of a quarter, a permittee may elect to subdivide the process unit into 2 or 3 subgroups of valves and monitor each subgroup in a different month during the quarter, provided each subgroup is monitored every 3 months.Keep records of the valves assigned to each subgroup. [40 CFR 60.482-7(c)(1)(ii)] If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months. [40 CFR 60.482-7(c)(2)].[40 CFR 60.482].	Other: Record all relevant information specified at[40 CFR 60.486].	Comply with the requirement: Upon occurrence of event. Attach a weatherproof visible tag with the equipment identification number to the leaking equipment. [40 CFR 60.486(b)(1)] A leak shall be repaired as soon as possible, no later than 15 days after detection. [40 CFR 60.482-7(d)(1)]. A first repair attempt shall include the actions specified at 40 CFR 60.482-7(e) and shall be made within 5 calendar days of leak detection. [40 CFR 60.482-7(e)] and [40 CFR 60.482-7(d)(2)]. A repair may be delayed for reasons specified at 40 CFR 60.482-9. [40 CFR 60.482-7(d)(1)]. Submit semiannual reports containing information specified at. [40 CFR 60.487(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Monitor for leaks in pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, by visual, audible, olfactory, or other detection methods. [40 CFR 60.482-8(a)]. [40 CFR 60.482]	Other: If a potential leak is discovered, the owner or operator shall monitor the equipment within 5 days by the method specified in 40 CFR 60.485(b). [40 CFR 60.482-8(a)(1)]. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. [40 CFR 60.482-8(b)].[40 CFR 60.482].	Other: Record all relevant information specified at[40 CFR 60.486].	Comply with the requirement: Upon occurrence of event. A weatherproof visible identification tag with the equipment identification number, shall be attached to the leaking equipment. [40 CFR 60.486(b)] A leak shall be repaired as soon as practicable, but not later than 15 calendar days after detection. [40 CFR 60.482-8(c)(1)]. A first repair attempt shall include the best practices specified at 40 CFR 60.482-2(c)(2) and 40 CFR 60.482-7(e) shall be made within 5 calendar days of leak detection. [40 CFR 60.482-8(c)(2)] and [40 CFR 60.482-8(d)]. A repair may be delayed for reasons specified at 40 CFR 60.482-9. [40 CFR 60.482-8(c)(1)]. Submit semiannual reports containing all the relevant information specified at. [40 CFR 60.487(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Closed vent systems constructed of hard-piping or ductwork shall be inspected initially and annually thereafter. [40 CFR 60.482-10(f)]. If a vapor collection system or closed vent system is operated under a vacuum, it is exempt from the requirements of 40 CFR 60.482-10(f)(1)(i) and (f)(2). [40 CFR 60.482-10(i)] Parts of the closed vent system designated as unsafe-to-inspect are exempt from 40 CFR 60.482-10(f)(i) and (f)(2) if the requirements at 40 CFR 60.482-10(j)(1) and (2) are met. [40 CFR 60.482-10(j)]. Parts of the closed vent system designated as difficult-to-inspect are exempt from 40 CFR 60.482-10(f)(i) and (f)(2) if the requirements at 40 CFR 60.482-10(k)(1) through (3) are met. [40 CFR 60.482-10(k)]. Closed vent systems shall be operated at all times when emissions may be vented to them. [40 CFR 60.482-10(m)]. [40 CFR 60.482]	Other: If the vapor collection system or closed vent system is constructed of hard-piping: Conduct an initial inspection according to the procedures in 40 CFR 60.485(b); and conduct annual visual inspections for visible, audible, or olfactory indications of leaks. [40 CFR 60.482-10(f)(1)]. If the vapor collection system or closed vent system is constructed of ductwork: Conduct an initial inspection according to the procedures in 40 CFR 60.485(b); and conduct annual inspections according to the procedures in 40 CFR 60.485(b). [40 CFR 60.482(f)(2)]. Leaks are indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspection. [40 CFR 60.482-10(g)].[40 CFR 60.482].	Other: Record all relevant information specified at [40 CFR 60.482-10(l)] and[40 CFR 60.486].	Comply with the requirement: Upon occurrence of event. A first repair attempt shall be made within 5 calendar days of leak detection. [40 CFR 60.482-10(g)(1)]. Repair shall be completed no later than 15 calendar days after the leak is detected. [40 CFR 60.482 -10(g)(2)]. A repair may be delayed for reasons specified at 40 CFR 60.482-10(h). Submit semiannual reports containing all the relevant information specified at. [40 CFR 60.487]
11	The provisions of N.J.A.C.7:27-16.18 apply to all equipment in contact with a substance that comprises at least 10 wt.% applicable VOC. [N.J.A.C. 7:27-16.18(b)]	None.	None.	None.
12	No person shall allow a leak of any applicable VOC from any pressure relief device or other component without moving parts (including, flanges, manholes, hatches, instrument connections, sealed connections, joints, fittings), unless the person first attempts to repair the leak, and completes the repair, within the time allotted in Table 18A. [N.J.A.C. 7:27-16.18(c)1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	No person shall allow a leak of any applicable VOC from any agitator or other component with moving parts (including, without limitation, valves, pumps, compressors, agitators and diaphragms), unless the person first attempts to repair the leak, and completes the repair, within the time allotted in Table 18B. [N.J.A.C. 7:27-16.18(d)]	None.	None.	None.
14	Develop and implement a leak detection and repair program for each component subject to the provisions of N.J.A.C. 7:27-16.18(c) and (d) in accordance with the requirements at N.J.A.C.7:27-16.18(f). Components that are insulated, encased, or enclosed may be tested for leaks at a distance within 0.4 inches (one centimeter) of the surface of the insulation, encasement, or enclosure. [N.J.A.C.7:27-16.18(k)]. Difficult-to-monitor components installed prior to May 31,1995, are exempt from quarterly testing requirements, and instead are to be tested annually. [N.J.A.C.7:27-16.18(l)]. The provisions of N.J.A.C.7:27-16.18(l)(f) do not apply to a pressure relief device connected as specified at [N.J.A.C.7:27-16.18(n)]. The provisions of N.J.A.C.7:27-16.18(l)(f) do not apply to components specified at [N.J.A.C. 7:27-16.18(p)]	Other: The owner or operator shall monitor / test each component according to the schedule specified at N.J.A.C.7:27-16.18(f)1 through (f)3. A component that does not come in contact with applicable VOC at any time during a specified monitoring period need not be monitored during that period, but, instead, must only be monitored within 30 days of coming in contact with applicable VOC. [N.J.A.C.7:27-16.18(f)7]. Equipment that is not operating need not be started up for the purpose of monitoring components within a specified monitoring period, but, instead, must be monitored within 30 days of being restarted. [N.J.A.C.7:27-16.18(f)8]. The concentration of VOC in a gaseous leak from a component shall be determined by the methods specified at[N.J.A.C. 7:27-16.18(e)].	Other: A log of information about components detected to have regulated leaks shall be maintained. The log shall be retained for a minimum of five years and be made available immediately upon request by the Department. The log shall contain the data listed at N.J.A.C.7:27-16.18(j)(1) for each instance in which a component is detected to have a regulated leak.[N.J.A.C. 7:27-16.18(j)1].	Comply with the requirement: Upon occurrence of event. A readily visible identification tag shall be affixed to any component detected to have a regulated leak. The tag must bear a number identifying the component and the date on which the regulated leak was detected. The tag must remain in place until the regulated leak is repaired. [N.J.A.C.7:27-16.18(f)(5)]. Leaks shall be repaired within the timeframe specified at Table 18A/B unless a refinery process unit shutdown is necessary to repair the regulated leak. In such case, the regulated leak shall be repaired during the next process unit shutdown and prior to the next start-up.[N.J.A.C.7:27-16.18(f)(6)]. Within 30 days following the last day of every third month, a report shall be submitted to the Department?s regional enforcement office that lists all the information specified at. [N.J.A.C. 7:27-16.18(j)2]
15	The permittee may use pressure testing with gas or liquid as an alternative method to comply with leak detection requirements. The testing procedures are specified at [N.J.A.C. 7:27-16.18(q)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Do not instal or operate a valve, except for a safety pressure relief valve, at the end of a pipe or line containing applicable VOC unless the pipe or line is sealed with a second valve, a blind flange, a plug or a cap. The sealing device may be removed only when a sample is being taken, during actual use in the process, or during maintenance. [N.J.A.C. 7:27-16.18(o)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FG7 Benzene Fenceline Monitoring Program**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Conduct monitoring along the facility property boundary and analyze the samples in accordance with Methods 325A and 325B of Appendix A and paragraphs 40 CFR 63.658 (b) through 40 CFR 63.658 (k). [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring at the approved frequency. Base Sampling Frequency: Replace the sample-containing PST at each monitoring site with a fresh laboratory prepared PST every 14 days. [40 CFR 63.658(e)(1)] and (2). Reduced Burden Sampling Frequency: When a monitoring site consistently returns results <= 0.9 µg/m3 for two years, the permittee may use the applicable minimum sampling frequency specified at [40 CFR 63.658(e)(3)(i)] through (iv). NOTE: If a sample from a monitoring site returns a result > 0.9 µg/m3, the monitoring frequency for that site must be adjusted as specified at. [40 CFR 63.658(e)(3)(v)] Calculate the annual average "Delta C" based on the average of the 26 most recent 14-day sampling periods. Update this annual average value upon receipt of each subsequent 14-day sampling period. [40 CFR 63.658(f)(2)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Keep all records specified at [40 CFR 63.655(i)(8)]. Records must be retained for 5 years. [40 CFR 63.655(i)(6)]	Submit a report: Other : Within 45 days of the end of each quarterly reporting period. Reports must include the information specified at 40 CFR 63.655(h)(8). Submit reports to EPA's Compliance & Emissions Data Reporting Interface (CEDRI) and the NJDEP Regional Enforcement Office. [40 CFR 63.655(h)(8) and [N.J.A.C.7:27-22.16(o)]. Within 45 days of completing each sampling period, determine whether the results are above or below the action level (at each monitoring site) by calculating the benzene concentration "Delta C" for each 14-day sampling period, according to [40 CFR 63.658(f)(1)(i)] or [40 CFR 63.658(f)(1)(ii)] If an annual average "Delta C" value is > 9 µg/m3, the action level is exceeded and the procedures at 40 CFR 63.658(g) and (h) must be followed. [40 CFR 63.658(f)(3)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS1 Oil Storage Tanks (10), IS2 Chemical Tanks (10), IS3 Caustic Tanks (5), IS4 Cooling Tower Chemical Tanks (12), IS5 Amine Tanks (6)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, that addresses the three requirements specified under "Insignificant source operation" item 2(iii). [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS6 Furfural 1 Vent, IS7 Furfural 2 vent, IS9 Laboratory Hoods (28)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [None]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS8 Cooling Towers (12)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Water treatment chemicals containing hexavalent chromium shall not be added to the circulating water. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep Material Safety Data Sheets (MSDS) for the chemicals used in the circulating water.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS10 LPG Loading Hose connections**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Install leak-tight connectors on the loading hoses associated with the loading of LPG trucks. The leak-tight connectors shall not emit greater than 500 ppm of VOC emissions. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic leak detection monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain the following records: 1) The date the leak test was conducted; 2) The number of components tested; and 3) The results of the periodic monitoring. [N.J.A.C. 7:27-22.16(o)]	Repair equipment: Upon occurrence of event. If the VOC concentration during periodic monitoring is detected to have greater than 500 ppm, the permittee shall do the following: 1) Affix a readily visible identification tag to any component that was detected to have VOC emissions over 500 ppm. The tag must bear a number identifying the component and the date on which the regulated leak was detected; 2) Repair the leaking equipment within 15 days; and 3) Repeat the periodic emissions monitoring after completing the repair. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS11 Non-Applicable VOC Loading Racks**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All VOC loaded shall have a vapor pressure or sum of partial pressures of organic substances of less than 0.02 pounds per square inch (1.0 millimeters of mercury) absolute at standard conditions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS13 Process Analyzer vents**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The following continuous emissions analyzers vent to a refinery flare: CCR Depropanizer, CCR LPG, CCR Propane, CCR Butane, CCR Absorber Off-Gas, CCR Deethanizer Off-Gas, CCR Recycle Gas, CCR Net Gas, NHT Off Gas, FGDU Fuel Gas, FGDU Recylce Gas, CH-1 Stripper, CHD-1Total Gas, CHD-1Recycle Gas, and CHD-1Fresh Gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR1 (Reqs apply to: U1, U2, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U20, U21, U22, U25, U56, U780, U790, U800, U810)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
2	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
3	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]
5	Each owner or operator required to install a continuous monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see section 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each six-month period. [40 CFR 60.7(c)]	None.	Other: Written reports of excess emissions shall include the following information: (1) The magnitude of excess emissions computed in accordance with section 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period and excess emissions. The process operating time during the reporting period. (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. [40 CFR 60.7(c)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
7	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart. [40 CFR 60.8(b)]	None.	None.	None.
8	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, afford the Administrator the opportunity to have an observer present. [40 CFR 60.8(d)]	None.	None.	None.
9	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities. [40 CFR 60.8(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. [40 CFR 60.8(f)]	None.	None.	None.
11	The performance testing shall include a test method performance audit (PA) during the performance test. The PAs consist of blind audit samples supplied by an accredited audit sample provider and analyzed during the performance test in order to provide a measure of test data bias. [40 CFR 60.8(g)]	None.	None.	None.
12	(b) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Method 9 in appendix A of this part [40 CFR 60.11(b)]	None.	None.	None.
13	The opacity standards shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. [40 CFR 60.11(c)]	None.	None.	None.
14	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR 60.8 [40 CFR 60.11(e)(1)]	None.	None.	None.
16	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.
17	The owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 [40 CFR 60.13(c)]	None.	None.	None.
18	The owner or operator shall perform zero and span adjustments daily for continuous emission monitors and continuous opacity monitors following procedures outlined in 40 CFR Part 60.13(d)1 & 2. [40 CFR 60.13(d)]	None.	Other: Maintain records in accordance with 40 CFR 60.7(f). [40 CFR 60.13(d)].	None.
19	All continuous monitoring systems for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [40 CFR 60.13(e)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems referenced by 40 CFR 60.13(c) measuring emissions except opacity shall be in continuous operation. They shall complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period. [40 CFR 60.13(e)(2)]	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	Other: See Applicable Requirement. [40 CFR 60.13(e)(2)].	None.
21	All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR Part 60 shall be used. [40 CFR 60.13(f)]	None.	None.	None.
22	When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems on each effluent or on the combined effluent. [40 CFR 60.13(g)]	None.	None.	None.
23	Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. [40 CFR 60.13(h)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The owner or operator of all continuous monitoring systems (other than opacity) shall reduce all data to 1-hour averages for time periods. One-hour period is defined in 40 CFR 60.2 as any 60-minute period commencing on the hour. For a full operating hour, 1-hour averages shall be computed from at least four valid data points, i.e., one data point in each of the 15-minute quadrants of the hour. For a partial operating hour (any clock hour with less than 60 minutes of unit operation), the owner or operator shall follow all the procedures specified at 40 CFR 60.13(h)(2) to compute 1-hour averages. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. The owners and operators complying with the requirements in 40 CFR 60.7(f)(1) or (2) must include any data recorded during periods of monitor breakdown or malfunction in the data averages. Either arithmetic or integrated averaging of all data may be used to calculate the hourly averages. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O2 or ng/J of pollutant). [40 CFR 60.13(h)(2)]	None.	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None.
25	All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in the applicable subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subpart to specify the emission limit. [40 CFR 60.13(h)(3)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	Any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification. [40 CFR 60.14(a)]	None.	None.	None.
27	The following shall not be considered modifications: Maintenance, repair, and routine replacement of a source. An increase in production rate without a capital expenditure. An increase in the hours of operation. Use of an alternative fuel or raw material. The addition or use of any system or device whose primary function is the reduction of air pollutants. The relocation or change in ownership of an existing facility. [40 CFR 60.14(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR2 (Reqs apply to: U2, U5, U6, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U20, U56, U780, U790, U800, U810)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall adjust the combustion process in accordance with the requirements of N.J.A.C. 7:27-19. The permittee shall: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly 4. Minimize total emissions of NOx and CO consistent with the manufacturer's specifications; and 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made. [N.J.A.C. 7:27-19.16(a)]	Monitored by periodic emission monitoring annually. The permittee shall: Convert the emission values of the NOx, CO and O2 concentrations measured to pounds per million BTU (lb/MM BTU) according to the following formula: lb/MM BTU = ppmvd x MW x F dry factor x O2 correction factor / 387,000,000 Where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO, MW is the Molecular Weight for: NOx = 46 lb/lb-mole; CO = 28 lb/lb-mole, F dry factor for: Natural gas = 8,710 dscf/MM BTU and Residual or fuel oil = 9,190 dscf/MM BTU O2 correction factor: (20.9%) / (20.9% - O2 measured) O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually Records shall contain the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MM BTU); and 7. The type and amount of fuel used over the 12 months prior to the annual adjustment. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually within 45 days of the adjustment. Reports shall be submitted electronically in the format the department specifies at its website. The report shall contain the following: 1. The concentrations of NOx and CO in the effluent stream in ppmvd, and O2 in percent dry basis, measured before and after the adjustment of the combustion process; 2. The converted emission values in lb/MM BTU for the measurements taken before and after the adjustment of the combustion process; 3. A description of any corrective actions taken as a part of the combustion adjustment; and 4. The type and amount of fuel used over the 12 months prior to the annual adjustment. N.J.A.C. 7:27-19.16(c) and. [N.J.A.C. 7:27-19.16(d)]
2	An exceedance of an emission limit that occurs during an adjustment of the combustion process under N.J.A.C. 7:27-19.16(a) is not a violation of N.J.A.C. 7:27-19 if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under N.J.A.C. 7:27-19 or under an operating permit issued pursuant to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted.[N.J.A.C. 7:27-19.16(o)].	None.
4	H2S <= 0.1 gr/dscf (162 ppmvd) in fuel gas. [40 CFR 60.104(a)(1)]. Fuel gas means any gas which is generated at a petroleum refinery and which is combusted. Fuel gas includes natural gas when the natural gas is combined and combusted in any proportion with a gas generated at a refinery. Fuel gas does not include gases generated by catalytic cracking unit catalyst regenerators and fluid coking burners. Fuel gas does not include vapors that are collected and combusted in a thermal oxidizer or flare installed to control emissions from wastewater treatment units or marine tank vessel loading operations. [40 CFR 60.101(d)]	H2S: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. Install, calibrate and maintain an instrument that continuously monitors and records the concentration (dry basis) of H2S in refinery fuel gas before being burned in any fuel gas combustion device. (i) The span value for this instrument is 425 mg/dscm H2S. (ii) Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned. (iii) The performance evaluations for this H2S monitor under 40 CFR 60.13(c) shall use Performance Specification 7. Method 11, 15, 15A or 16 shall be used for conducting the relative accuracy evaluations in accordance with 40 CFR 60.106(e)(1). [40 CFR 60.105(a)(4)]	H2S: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)] and. [40 CFR 60.105(a)(4)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
5	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
6	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	A boiler or process heater is new if you commence construction or reconstruction of the boiler or process heater after June 4, 2010. [40 CFR 63.7490(b)] and [40 CFR 63.7490(c)]. A boiler or process heater is existing if it is not new or reconstructed. [40 CFR 63.7490(d)]	None.	None.	None.
8	If you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013. [40 CFR 63.7545(b)]. If you startup your affected source after January 31, 2013, you must submit an Initial Notification not later than 15 days after the actual startup of the source. [40 CFR 63.7545(c)]	None.	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit notification: As per the approved schedule. The Initial Notification must include the information specified at 40 CFR 63.9(b)(2). [40 CFR 63.7545(b)]
9	If you have an existing boiler or process heater, you must comply with the requirements of 40 CFR 63 Subpart DDDDD no later than January 31, 2016. [40 CFR 63.7495(b)] If you have a new process heater, you must comply with 40 CFR Subpart DDDDD by January 31, 2013 or upon startup of your heater, whichever is later. [40 CFR 63.7495(a)]. These standards apply at all times the affected unit is operating, except during periods of startup and shutdown. [40 CFR 63.7500(f)]	None.	None.	Comply with rule/regulation: As per the approved schedule. [40 CFR 63.7495]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.7500(a)(3)]	Other: Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.[40 CFR 63.7500(a)(3)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]
11	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4 of [40 CFR 63 Subpart DDDDD]. [40 CFR 63.7500(e)]. Unit designed to burn gas 1 subcategory includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition. [40 CFR 63.7575]	None.	Other: If you operate a unit in the unit designed to burn gas 1 subcategory, and you use an alternative fuel other than natural gas, refinery gas or other gas 1 fuel, you must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies.[40 CFR 63.7555(h)].	Submit notification: As per the approved schedule. If you operate a unit designed to burn natural gas, refinery gas, or other gas 1 fuels, and you intend to use a fuel other than natural gas, refinery gas, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, you must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. Include the information specified at [40 CFR 63.7545(f)(1)] through [40 CFR 63.7545(f)(5)]. [40 CFR 63.7545(f)]
12	If your boiler or process heater has a heat input capacity of less than 10 million Btu per hour, you must conduct a biennial tune-up of the boiler or process heater as specified at 40 CFR 63.7540(a)(10)(i) through (vi). [40 CFR 63.7540(a)(11)]. If your boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, you must conduct a tune-up of the boiler or process heater every 5 years. You may delay the burner inspection specified at 40 CFR 63.7540 (a)(10)(i) per [40 CFR 63.7540(a)(12)]	Other: Use the procedures specified at [40 CFR 63.7540(a)(10)(i)] through[40 CFR 63.7540(a)(10)(vi)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at 40 CFR 63.7560. Record the information specified at 40 CFR 63.7540(a)(10)(vi) (A) through (C).[40 CFR 63.7540(a)(10)(vi)].	Submit a report: As per the approved schedule specified at [40 CFR 63.7550(b)] and the procedure outlined at [40 CFR 63.7550(h)]. The report must contain the information specified at [40 CFR 63.7550(c)(5)(i)] through [40 CFR 63.7550(c)(5)(iv)] and. [40 CFR 63.7550(c)(5)(xiv)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater as specified at 40 CFR 63.7540(a)(10)(i) through (vi). [40 CFR 63.7540(a)(10)]. If your boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, you must conduct a tune-up of the boiler or process heater every 5 years. You may delay the burner inspection specified at 40 CFR 63.7540 (a)(10)(i) per [40 CFR 63.7540(a)(12)]	Other: Use the procedures specified at [40 CFR 63.7540(a)(10)(i)] through[40 CFR 63.7540(a)(10)(vi)].	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at 40 CFR 63.7560. Record the information specified at 40 CFR 63.7540(a)(10)(vi) (A) through (C).[40 CFR 63.7540(a)(10)(vi)].	Submit a report: As per the approved schedule specified at [40 CFR 63.7550(b)] and the procedure outlined at [40 CFR 63.7550(h)]. The report must contain the information specified at [40 CFR 63.7550(c)(5)(i)] through [40 CFR 63.7550(c)(5)(iv)] and. [40 CFR 63.7550(c)(5)(xiv)]
14	An existing boiler or process heater must have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the requirements specified in 40 CFR 63 Subpart DDDDD Table 3. [40 CFR 63.7500(a)(1)]	None.	Other: Keep all relevant records specified at 63 CFR 7555. Keep records as specified at[40 CFR 63.7560].	Submit a report: As per the approved schedule specified at. [40 CFR 63.7550]
15	See Table 10 of 40 CFR 63 Subpart DDDDD for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR3 (Reqs apply to: U21, U22, U25)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Particulate emissions no greater than 20 opacity, exclusive of visible condensed water vapor, for more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Opacity: Monitored by visual determination daily, based on any consecutive 30-minute period. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2 or equivalent method approved by BTS. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Other: If visible emissions greater than the prescribed standard are observed, the permittee shall record the following information: (1) Date and time of incident; (2) Emission Point number; (3) Observed results and conclusions: (4) Description of corrective action taken; (5) Date and time opacity problem was solved; (6) N.J.A.C. 7:27B-2 results if conducted; and (7) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	Submit a report: Upon occurrence of event. The permittee shall only report permit violations (excess visible emissions) to the Department pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]
2	Materials being flared limited to VOC, NOx, CO, SO2, TSP, PM10, Reduced Sulfur, and Ammonia. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Pilot flame fuel limited to treated refinery fuel gas or natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by production records continuously. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Heating Value of fuel is 950-1,200 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Flares shall be: 1. Designed to reduce the concentration of VOC from the source operation by no less than 95 %; 2. Installed in accordance with the specifications provided by the manufacturer; and 3. Installed, operated, and maintained in accordance with specification provided by manufactures. [N.J.A.C. 7:27-16.13(a)]	None.	None.	None.
6	The owner or operator of any existing flare shall submit in writing, to the Assistant Director of Air and Environmental Quality Enforcement, Division of Enforcement Field Operations, Department of Environmental Protection, P.O. Box 027, Trenton, N.J. 08625-0027, the following information prior to May 31, 1995. The following information shall be submitted with any permit application for any flare to be installed after that date. Such submittal shall be certified in accordance with N.J.A.C. 7:27-1.39. 1. The name of the owner and operator of the flare; 2. The make, model and serial number of the flare; 3. A copy of the manufacturer's specification of the performance standards for the flare; 4. A statement that the flare was installed in accordance with the manufacturer's specifications; 5. A statement that the flare is being operated and maintained in accordance with the manufacturer's specifications; and 6. A statement that the flare will continue to be operated in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(b)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator of a flare shall inspect the flare before May 1 of each year beginning in 1995 to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The permittee shall record the following data: 1. The name of the person conducting the inspection; 2. The date on which the inspection was conducted; 3. An entry indicating which flare was inspected; 4. Any changes or adjustments made to the flare as a result of the inspection; and 5. A statement that the flare is currently being operated in compliance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(c)]	None.
8	Permittee shall operate a flare monitoring device which will measure and continuously record the volumetric flow rate and mass flow rate of gas to the flare. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	For each release recorded by the volumetric flow rate monitor or the mass flow rate monitor, the composition of the gas shall be estimated from the nature of the source. VOC and SO2 emissions for each recorded flaring incident shall be calculated and recorded. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a volumetric flow rate monitor or mass flow rate monitor upon occurrence of event.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. For releases which are measured or recorded on the volumetric monitor, the following information shall be recorded: 1. Composition of the gas. 2. Streams and equipment involved. 3. Cause of the release. 4. Measures implemented to mitigate and control future releases. 5. The quantity and duration of the release shall be estimated and recorded manually if the automatic recorder is not operating. 6. VOC and SO2 emissions for each recorded flaring incident. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	For known small releases a log shall be maintained on major pieces of equipment depressured to the flare, including an estimate of emissions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by volumetric flow rate monitor continuously or visual observation for undetectable releases per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, start time, end time, ID. No., unit, vessel, material, reason and quantity (lbs) into the "Flare Release Log" for each planned and known releases. [N.J.A.C. 7:27-22.16(o)]	Submit a report: As per the approved schedule. Submit "Flare Release Log" reports on May 31 and November 30 of each year to Southern Regional Enforcement. [N.J.A.C. 7:27-22.16(o)]
11	For planned releases, a log will be maintained identifying planned releases, the reason for the release and any information demonstrating that the release is unavoidable, is environmentally and economically appropriate and that planning was done in manner which minimized the volume of the release. The composition, flow rate and duration will be estimated if the release is too small to be measured on the automatic monitoring and recording equipment. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by volumetric flow rate monitor continuously or visual observation for undetectable releases per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, start time, end time, ID. No., unit, vessel, material, reason and quantity (lbs) into the "Flare Release Log" for each planned and known releases. [N.J.A.C. 7:27-22.16(o)]	Submit a report: As per the approved schedule. Submit "Flare Release Log" reports on May 31 and November 30 of each year to Southern Regional Enforcement. [N.J.A.C. 7:27-22.16(o)]
12	Flares shall be designed for, and operated with, no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)]	Monitored by visual determination once initially, based on a 2 hour period. Compliance shall be determined using Method 22. [40 CFR 60.18(f)(1)]	None.	None.
13	Flares shall be operated with a flame present at all times. [N.J.A.C 7:27-22.16(a)] and [40 CFR 60.18(c)(2)]	Other: Monitored continuously by a video camera and board mounted pilot outage alarm. [40 CFR 60.18(f)(2)] and[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record the times the flare pilot flame is out. [N.J.A.C. 7:27-22.16(o)]	Submit a report: As per the approved schedule. Report all flame outages in the semi-annual flare log report. [N.J.A.C. 7:27-22.16(o)]
14	Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted. [40 CFR 60.18(c)(3)(ii)]	Other: The net heating value of the gas being combusted shall be determined once initially by the methods specified at [40 CFR 60.18(f)(3)].[40 CFR 60.18(f)(3)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Steam-assisted and nonassisted flares designed for and operated with an exit velocity equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed, if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf). [40 CFR 60.18(c)(4)(ii)]	Monitored by calculations once initially. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference methods 2, 2A, 2C or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18(f)(4)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
16	Flares shall be monitored to ensure that they are operated and maintained in conformance with their designs. [40 CFR 60.18(d)]	None.	None.	None.
17	Flares shall be operated at all times when emissions may be vented to them. [40 CFR 60.18(e)]	None.	None.	None.
18	Each owner or operator shall not burn in any affected flare any fuel gas that contains H2S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis. The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit. [40 CFR 60.103a(h)]	Other: The owner or operator of a flare that is subject to the H2S concentration requirements in [40 CFR 60.103a(h)], shall install, operate, calibrate and maintain an instrument to continuously monitor and record the concentration by volume (dry basis) of H2S in the fuel gases before being burned in any fuel gas combustion device or flare. [40 CFR 60.107a(a)(2)(i)] through (iv) The permittee is not required to comply with 40 CFR 60.107a(a)(2) if fuel gas streams inherently low in sulfur content are combusted in the flare. [40 CFR 60.107a(a)(3)(i)] through[40 CFR 60.107a(a)(3)(iv)].	Other: Comply with the recordkeeping requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Keep all applicable records specified at[40 CFR 60.108a(c)(6)].	Comply with rule/regulation: As per the approved schedule. Comply with the notification and reporting requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. The owner or operator shall conduct a performance test for each flare to demonstrate initial compliance according to the requirements of [40 CFR 60.8]. The notification requirements of [40 CFR 60.8(d)] apply to the initial performance test. [40 CFR 60.104a(a)]. The owner or operator shall determine compliance with the applicable H2S emissions limit in [40 CFR 60.103a(h)] according to the test methods and procedures at [40 CFR 60.104a(j)(1)] through [40 CFR 60.104a(j)(4)]. Submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] with the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	H2S Monitoring: The owner or operator shall install, operate, calibrate, and maintain an instrument for continuously monitoring and recording the concentration of H2S in gas discharged to the flare according to the requirements at [40 CFR 60.107a(e)(2))(i)] through (iii). Collect and analyze samples of the gas and calculate total sulfur concentrations as specified at [40 CFR 60.107a(e)(2)(iv)] through (ix). [40 CFR 60.107a(e)(2)]	Other: Install, operate, calibrate, and maintain an instrument for continuously monitoring and recording the concentration of H2S in gas discharged to the flare.[40 CFR 60.107a(e)(2)].	Other: Comply with the applicable recordkeeping requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Keep all applicable records specified at[40 CFR 60.108a(c)(7)].	Comply with rule/regulation: As per the approved schedule. Comply with the applicable notification and reporting requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Each owner or operator subject shall notify the Administrator of the specific monitoring provisions in [40 CFR 60.107a] with which the owner or operator intends to comply. [40 CFR 60.108a(b)]. The owner or operator shall conduct performance evaluations of each H2S monitor according to the requirements in [40 CFR 60.13(c)] and Performance Specification 7 of Appendix B to part 60. [40 CFR 60.107a(e)(2)(ii)]. Submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] with the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Gas Flow Rate Monitoring: The owner or operator shall install, operate, calibrate and maintain a CPMS to measure and record the flow rate of gas discharged to the flare according to the specifications at [40 CFR 60.107a(f)(1)(i) through [40 CFR 60.107a(f)(1)(v)]	Other: Install a CPMS to measure and record the flow rate of gas discharged to the flare.[40 CFR 60.107a(f)(1)].	Other: Comply with the recordkeeping requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Keep all applicable records specified at[40 CFR 60.108a(c)(6)].	Comply with rule/regulation: As per the approved schedule. Comply with the notification and reporting requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Each owner or operator subject to an emissions limitation in [40 CFR 60.102a] shall notify the Administrator of the specific monitoring provisions in [40 CFR 60.107a] with which the owner or operator intends to comply. [40 CFR 60.108a(b)]. Submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] with the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]
21	The owner or operator shall develop and implement a written flare management plan to include the information described at [40 CFR 60.103a(a)(1) through [40 CFR 60.103a(a)(7)]	None.	Other: Maintain a copy of the flare management plan.[40 CFR 60.108a(c)(1)].	Submit a plan: Other : The owner or operator must submit the plan to the Administrator as described at [40 CFR 60.103a(b)(1) through. [40 CFR 60.103a(b)(3)]
22	The permittee shall conduct a root cause analysis and a corrective action analysis for any discharge to the flare in excess of 14,160 standard cubic meters (m3) (500,000 standard cubic feet (scf)) above the baseline, in any 24-hour period. [40 CFR 103a(c)(1)(ii)] and [40 CFR 60.103a(d)]	None.	Other: Maintain all relevant records specified at[40 CFR 60.108a(c)(6)].	Comply with rule/regulation: Upon occurrence of event : The owner or operator shall implement the corrective action(s) identified in the corrective action analysis, in accordance with the applicable requirements specified at [40 CFR 60.103a(e)(1)] through [40 CFR 60.103a(e)(3)] . The owner or operator shall submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] except that the report shall contain the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The permittee must comply with applicable requirements 24 through 34 no later than January 30, 2019. [40 CFR 63.670]	None.	None.	None.
24	Operate each flare with a pilot flame present at all times when regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame is present when regulated material is routed to the flare is a deviation of the standard. Deviations in different 15-minute blocks from the same event are considered separate deviations. [40 CFR 63.670(b)]	Other: Continuously monitor the presence of the pilot flame(s) using a device (including, but not limited to, a thermocouple, ultraviolet beam sensor, or infrared sensor) capable of detecting that the pilot flame(s) is present.[40 CFR 63.670(g)].	Other: For each flare keep all applicable records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 40 CFR 63.655(g)(11)(i) through. [40 CFR 63.655(g)(11)(iv)]
25	Specify the smokeless design capacity of each flare and operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare and the flare vent gas flow rate is less than the smokeless design capacity of the flare. [40 CFR 63.670(c)]	Other: Monitor visible emissions. An initial visible emissions demonstration must be conducted using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. Subsequent visible emissions observations must be conducted using either the methods at 40 CFR 63.670(h)(1) or (h)(2).[40 CFR 63.670(h)].	Other: For each flare keep all applicable records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 40 CFR 63.655(g)(11)(i) through. [40 CFR 63.655(g)(11)(iv)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The actual flare tip velocity (Vtip) must be less than 60 feet per second. [40 CFR 63.670(d)(1)]	Other: Monitor Vtip using the procedures at [40 CFR 63.670(i)] and [40 CFR 63.670(k)]. [40 CFR 63.670(d)(1)]. Install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the volumetric flow rate in the flare header as well as any supplemental gas used. If assist air or assist steam is used, the monitoring system must be capable of continuously measuring, calculating, and recording the volumetric flow rate of assist air and/or assist steam. [40 CFR 63.670(i)(1)] through (4). Determine Vtip on a 15-minute block average basis according to the requirements at [40 CFR 63.670(k)(1)] through[40 CFR 63.670(k)(3)].	Other: For each flare keep all applicable records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 40 CFR 63.655(g)(11)(i) through. [40 CFR 63.655(g)(11)(iv)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Alternative Flare Tip Velocity: Vtip must be less than 400 feet per second and also less than the maximum allowed flare tip velocity (Vmax) as calculated using the equation at [40 CFR 63.670(d)(2)]. [40 CFR 63.670(d)(2)]	Other: Monitor Vtip using the procedures at [40 CFR 63.670(i)] and [40 CFR 63.670(k)], and monitor gas composition and determine NHVvg using the procedures at [40 CFR 63.670(j)] and [40 CFR 63.670(l)]. [40 CFR 63.670(d)(2)]. Install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the volumetric flow rate in the flare header as well as any supplemental gas used. If assist air or assist steam is used, the monitoring system must be capable of continuously measuring, calculating, and recording the volumetric flow rate of assist air and/or assist steam. [40 CFR 63.670(i)(1)] through (4). Determine Vtip on a 15-minute block average basis according to the requirements at [40 CFR 63.670(k)(1)] through [40 CFR 63.670(k)(3)]. Determine the concentration of individual components in the flare vent gas as specified at 40 CFR 63.670(j)(1)]. Alternatively, directly monitor the net heating value of the flare vent gas as specified at 40 CFR 63.670(j)(3)]. Determine the net heating value of the flare vent gas (NHVvg) based on the composition monitoring data on a 15-minute block average basis following the requirements at[40 CFR 63.670(l)].	Other: For each flare keep all applicable records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 40 CFR 63.655(g)(11)(i) through. [40 CFR 63.655(g)(11)(iv)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	Operate each flare to maintain the net heating value of flare combustion zone gas (NHVcz) at or above 270 British thermal units per standard cubic feet (Btu/scf) determined on a 15-minute block period basis when regulated material is routed to the flare for at least 15-minutes. [40 CFR 63.670(e)]	Other: Calculate NHVcz as specified at 40 CFR 63.670(m).[40 CFR 63.670(e)].	Other: For each flare keep the records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 40 CFR 63.655(g)(11)(i) through. [40 CFR 63.655(g)(11)(iv)]
29	For each flare that has the potential to operate above its smokeless capacity under any circumstance, develop a flare management plan to minimize flaring during periods of startup, shutdown, or emergency releases. The flare management plan must include the information specified at [40 CFR 63.670(o)(1)(i)] through (vii). [40 CFR 63.670(o)(1)]	None.	Other: Keep records of the flare management plan.[N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: As per the approved schedule. Submit the plan to the Administrator as described at [40 CFR 63.670(o)(2)(i)] through (iii). [40 CFR 63.670(o)(2)]
30	Conduct a root cause analysis and a corrective action analysis for either of the following flow events: The vent gas flow rate exceeds the smokeless capacity of the flare and visible emissions are present from the flare for more than 5 minutes during any 2 consecutive hours during the release event. The vent gas flow rate exceeds the smokeless capacity of the flare and the 15-minute block average flare tip velocity exceeds the maximum flare tip velocity. [40 CFR 63.670(o)(3)(i)] and 9(i). Special circumstances affecting the number of root cause analyses and/or corrective action analyses are provided at {40 CFR 63.670(o)(4)(i)] through [40 CFR 63.670(o)(4)(v)]	None.	Other: For each flare keep all applicable records specified at [40 CFR 63.655(i)(9)(i) through (xii) up-to-date and readily accessible.[40 CFR 63.655(i)(9)].	Comply with the requirement: As per the approved schedule. Complete the root cause analysis and corrective action analysis as soon as possible, but no later than 45 days after a flare flow event. [40 CFR 63.670(o)(4)]. Implement the corrective action(s) identified in the corrective action analysis in accordance with the applicable requirements at [40 CFR 63.670(o)(5)(i)] through (iii). [40 CFR 63]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Determine the total number of events for which a root cause and corrective action analyses was required during the calendar year for each affected flare separately for events meeting the criteria at [40 CFR 63.670(o)(3)(i)] and (ii). [40 CFR 63.670(o)(6)]	None.	Other: Record the events described at [40 CFR 63.670(o)(7)(i) through (v) as violations of the emergency flaring work practice standard.[40 CFR 63.670(o)(7)].	. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.670(g)(11)] is collected. A Periodic Report is not required if none of the events identified at [40 CFR 63.670(g)(11)] occurred during the 6-month period[40 CFR 63.655 (g)]. Periodic Reports must include the information specified at 50 CFR 63.655(g)(11)(i) through Submit a report: As per the approved schedule. [40 CFR 63.655(g)(11)(iv)]
32	For each CPMS installed to comply with applicable provisions in 40 CFR 63.670, follow the requirements for flare monitoring systems specified at [40 CFR 63.671(a)] through (d). [40 CFR 63.671]	None.	None.	None.
33	For monitors used to determine compositional analysis for net heating value per 40 CFR 63.670(j)(1), the gas chromatograph must also meet the requirements at [40 CFR 63.671(e)(1)] through [40 CFR 63.671(e)(3)]	None.	None.	None.
34	See Table 6 of 40 CFR 63 Subpart CC for applicability of General Provisions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR4 (Reqs apply to: U67, U900)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The storage tank shall be equipped with a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
2	The external surface of the tank shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
3	The tank shall be equipped with a floating roof. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
4	If a tank is equipped with an external or internal floating roof, the roof shall float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. [N.J.A.C. 7:27-16.2(m)]	None.	None.	None.
5	The permittee shall maintain on site, for a period of no less than five years, records of roof landing emissions. This information is required by N.J.A.C. 7:27-21.5(j)(1). [N.J.A.C. 7:27-16.2(s)2]	None.	None.	None.
6	The permittee shall maintain on site, records of tank integrity testing schedules that N.J.A.C. 7:1E-4.2(c)1v requires to be included in the "Discharge, Prevention, Containment and Countermeasure Plan." [N.J.A.C. 7:27-16.2(s)7]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	If a Range III tank was constructed or installed on or after December 17, 1979, the tank shall be provided with a double seal floating roof or other control apparatus approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere. This requirement shall remain in effect for any such tank until N.J.A.C.7:27-16.2(l)3, 5, 6 or 7 becomes applicable. [N.J.A.C.7:27-16.2(l)8i]. If a Range III tank was constructed or installed prior to December 17, 1979, the requirements of N.J.A.C.7:27-16.2(l)3, 5, 6 or 7 shall apply as applicable. [N.J.A.C. 7:27-16.2(l)8ii]	None.	None.	None.
8	For IFRT, EFRT and domed EFRT: Each access hatch and gauge float well shall be equipped with a cover that is gasketed and bolted at all times, with no visible gaps, except when the hatch or well must be opened for access. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1i]	None.	None.	None.
9	For IFRT, EFRT and domed EFRT: Each gauge hatch / sample well shall be equipped with a cover that is gasketed. The cover shall be closed all times, with no visible gaps, except when the hatch or well must be opened for access. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1ii]	None.	None.	None.
10	For IFRT, EFRT and domed EFRT: Each adjustable roof leg shall be covered or gasketed with a VOC impervious sock at all times when the roof is floating. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1iii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	For IFRT, EFRT and domed EFRT: Each rim vent shall be gasketed and closed at all times, with no visible gaps, when the roof is floating. Rim vents shall be set to open only when the roof is being floated off the roof leg supports or when the pressure beneath the rim seal exceeds the maunfacturer's recommended setting. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1iv]	None.	None.	None.
12	For IFRT, EFRT and domed EFRT: Each vacuum breaker shall be gasketed and closed at all times, with no visible gaps, when the roof is floating. Vacuum breakers shall be set to open only when the roof is being floated off or is being landed on the roof leg supports. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1v]	None.	None.	None.
13	For IFRT, EFRT and domed EFRT: Each open floating roof drain shall be equipped with a slotted membrane fabric cover or other device with an equivalent control efficiency that covers at least 90 percent of the area of the opening. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1vi]	None.	None.	None.
14	For IFRT, EFRT and domed EFRT: Each unslotted guidepole well shall be equipped with a gasketed sliding cover and a flexible fabric sleeve or wiper. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1vii]	None.	None.	None.
15	For IFRT, EFRT and domed EFRT: Each unslotted guidepole shall be equipped with a gasketed cover at the end of the pole. The cover shall be closed at all times, with no visible gaps, except when gauging or sampling. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1viii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	For IFRT, EFRT and domed EFRT: Each slotted guidepole shall be equipped with a gasketed cover, a pole wiper and a pole sleeve. The pole sleeve shall be extended into the stored liquid. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1ix]	None.	None.	None.
17	For IFRT, EFRT and domed EFRT: Each slotted guidepole having a pole float shall be equipped with a gasketed cover, a pole wiper and a pole float wiper. The wiper or seal of the pole float shall be at or above the height of the pole wiper. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1x]	None.	None.	None.
18	For IFRT, EFRT and domed EFRT: Each slotted guidepole opening shall be covered with a cover that is gasketed. The cover shall be closed all times, with no visible gaps, except when the cover must be opened for access. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1xi]	None.	None.	None.
19	For IFRT, EFRT and domed EFRT: The pole float shall be maintained in a condition such that it floats within the guidepole at all times except when it must be removed for sampling or when the tank is empty. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1xii]	None.	None.	None.
20	For IFRT, EFRT and domed EFRT: Except for vacuum breakers and rim vents, each opening in the floating roof shall provide a projection below the liquid surface. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1xiii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	For IFRT, EFRT and domed EFRT: Except for vacuum breakers, rim vents, roof drains and leg sleeves, all openings in the roof shall be equipped with a gasketed cover or seal that is closed at all times, with no visible gaps, except when the cover or seal must be opened for access. [N.J.A.C.7:27-16.2(l)7iii] and [N.J.A.C. 7:27-16.2(l)1xiv]	None.	None.	None.
22	For IFRT, EFRT and domed EFRT: The primary seal shall be a mechanical shoe or liquid mounted seal. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C.16.2(l)3i]. For IFRT, a vapor-mounted wiper primary seal may be used on a tank with a shell that has riveted or lap-welded horizontal seams instead of the liquid mounted or mechanical shoe primary seal required above. [N.J.A.C. 7:27-16.2(l)7iv]	None.	None.	None.
23	For IFRT, EFRT and domed EFRT: The secondary seal shall be rim mounted and shall not be attached to the primary seal. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C. 7:27-16.2(l)3ii]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	For IFRT, EFRT and domed EFRT: The primary seal shall be installed such that: Gaps between the tank shell and the seal shall not exceed 1/2 inch for a cumulative length of 30 percent of the tank circumference and 1/8 inch for 60 percent of the tank circumference. No gap shall exceed 1-1/2 inches. No continuous gap greater than 1/8 inch shall exceed 10 percent of the tank circumference.[N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C.16.2(l)3iii]. Any floating roof tank shall not be required to meet the above requirements while the roof is resting on its legs during the processes of draining, degassing or refilling the tank. [N.J.A.C. 7:27-16.2(f)5]	Other: For EFRT: Monitored by an authorized inspector using 1/8 inch, 1/2 inch and 1-1/2 inch probes every five years and each time the tank is degassed. The primary seal shall be inspected by holding back the secondary seal. [N.J.A.C.7:27-16.2(r)5iv]. For IFRT and domed EFRT: Monitored by an authorized inspector using 1/8 inch, 1/2 inch and 1-1/2 inch probes each time the tank is degassed but no less than once every ten years. [N.J.A.C.7:27-16.2(r)8], [N.J.A.C.7:27-16.2(r)7], [N.J.A.C.7:27-16.2(r)6iii] and [N.J.A.C.7:27-16.2(r)5iv]. The primary seal envelope shall be made available for unobstructed inspection by the Department, upon request, along its circumference. In the case of riveted tanks with resilient filled primary seals, at least eight such locations shall be made available; for all other types of seals, at least four such locations shall be made available.[N.J.A.C. 7:27-16.2(l)3vii].	Other: Record the gap data in section F(5) of the Inspection Form at N.J.A.C. 7:27-16 Appendix II. Record all cumulative gaps between 1/8 inch and 1/2 inch; between 1/2 inch and 1-1/2 inch; and in excess of 1-1/2 inch, in section G of the Inspection Form. [7:27-16.2(r)5iv] Maintain all inspection reports for the lifetime of the tank. [7:27-16.2(s)5] Maintain all repair and replacement records for a period of at least 5 years. [7:27-16.2(s)8] [N.J.A.C. 7:27-16.2(r)5iv].	Repair equipment: As per the approved schedule. The permittee shall repair or replace any piping, valve, vent, seal, gasket or cover of a roof that is defective, has a visible gap or is not leak-free or does not meet any applicable requirement [7:27-16.2(r)10]. The permittee shall perform the repair or replacement if the tank is already degassed, prior to filling; or if the tank is not degassed, within 45 days after discovery of the needed repair or replacement. If the repair cannot be completed and the vessel cannot be emptied in 45 days, the owner or operator may use up to two extensions of up to 30 additional days each. Documentation of the owner or operator's decision to use an extension shall include a description of the failure, shall document that alternative storage capacity in unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be completely emptied as soon as practicable. [N.J.A.C. 7:27-16.2(r)11]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	For IFRT, EFRT and domed EFRT: The secondary seal shall be installed such that: Gaps between the tank shell and the seal shall not exceed 1/8 inch for a cumulative length of 95 percent of the tank circumference. No gap shall exceed 1/2 inch. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C.7:27-16.2(l)3iv]. Any floating roof tank shall not be required to meet the above requirements while the roof is resting on its legs during the processes of draining, degassing or refilling the tank. [N.J.A.C. 7:27-16.2(f)5]	Other: For EFRT: Monitored by an authorized inspector using 1/8 inch, 1/2 inch and 1-1/2 inch probes annually. [N.J.A.C.7:27-16.2(r)5iii]. For IFRT and domed EFRT: Monitored by an authorized inspector using 1/8 inch, 1/2 inch and 1-1/2 inch probes each time the tank is degassed but no less than once every ten years. [N.J.A.C.7:27-16.2(r)7], [N.J.A.C.7:27-16.2(r)8], [N.J.A.C.7:27-16.2(r)6iii] and [N.J.A.C.7:27-16.2(r)5iii]. The secondary seal shall be installed in a way that permits probes up to 3.8 centimeters (1-1/2 inches) in width to be inserted to measure gaps in the primary seal.[N.J.A.C. 7:27-16.2(l)3viii].	Other: Record the gap data in section F(4) of the Inspection Form at N.J.A.C. 7:27-16 Appendix II. Record all cumulative gaps between 1/8 inch and 1/2 inch; between 1/2 inch and 1-1/2 inch; and in excess of 1-1/2 inch, in section G of the Inspection Form. Measure all secondary seal gaps greater than 1/2 inch for length and width, and record in section J "Comments" of the Inspection Form. [7:27-16.2(r)5iii] Maintain all inspection reports for the lifetime of the tank. [7:27-16.2(s)5] Maintain all repair and replacement records for a period of at least 5 years. [7:27-16.2(s)8] [N.J.A.C. 7:27-16.2(r)5iv].	Repair equipment: As per the approved schedule. The permittee shall repair or replace any piping, valve, vent, seal, gasket or cover of a roof that is defective, has a visible gap or is not leak-free or does not meet any applicable requirement [7:27-16.2(r)10]. The permittee shall perform the repair or replacement if the tank is already degassed, prior to filling; or if the tank is not degassed, within 45 days after discovery of the needed repair or replacement. If the repair cannot be completed and the vessel cannot be emptied in 45 days, the owner or operator may use up to two extensions of up to 30 additional days each. [N.J.A.C. 7:27-16.2(r)11]
26	For EFRT and domed EFRT: Mechanical shoe primary seals shall be installed so that one end of the shoe extends into the stored organic liquid and the other end extends a minimum vertical distance of 24 inches above the stored liquid surface.[N.J.A.C.16.2(l)6i] and [N.J.A.C.7:27-16.2(l)3v]. For IFRT: A mechanical shoe primary seal shall have one end extend a minimum vertical distance of 15 centimeters (six inches) above the stored organic liquid surface and the other and extend into the liquid a minimum of 10 centimeters (four inches) instead of meeting the requirement above. [N.J.A.C.7:27-16.2(l)7iv2(A)]. Any floating roof tank shall not be required to meet the above requirements while the roof is resting on its legs during the processes of draining, degassing or refilling the tank. [N.J.A.C. 7:27-16.2(f)5]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	For IFRT, EFRT and domed ERFT: The geometry of the shoe shall be such that the maximum gap between the shoe and the tank shell is no greater than double the gap allowed by the seal gap criteria specified in 16.2(l)3iii above for a length of at least 18 inches in the vertical plane above the liquid surface. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C.7:27-16.2(l)3vi]. Any floating roof tank shall not be required to meet the above requirements while the roof is resting on its legs during the processes of draining, degassing or refilling the tank. [N.J.A.C. 7:27-16.2(f)5]	None.	None.	None.
28	For IFRT, EFRT and domed EFRT: There shall be no holes, tears or openings in the secondary seal or in the primary seal envelope surrounding the annular space enclosed by the roof edge, seal fabric and secondary seal. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C. 7:27-16.2(l)3ix]	Other: Annually, from the platform, visually inspecting the roof to check for permit and rule violations, and visually checking the roof for unsealed roof legs, open hatches, open emergency roof drains, or open vacuum breakers. Indicate presence of any tears in the fabric of the visible seal. [N.J.A.C.7:27-16.2(r)6ii] and[N.J.A.C. 7:27-16.2(r)5i].	Other: Record the findings under section F of the Inspection Form. [N.J.A.C.7:27-16.2(r)6ii] and]N.J.A.C. 7:27-16.2(r)5i]. Maintain all inspection reports for the lifetime of the tank. [7:27-16.2(s)5] Maintain all repair and replacement records for a period of at least 5 years. [7:27-16.2(s)8] [N.J.A.C. 7:27-16.2(r)].	Repair equipment: As per the approved schedule The permittee shall repair or replace any piping, valve, vent, seal, gasket or cover of a roof that is defective, has a visible gap or is not leak-free, or does not meet any applicable requirement. The permittee shall perform the repair or replacement if the tank is already degassed, or within 45 days after discovery of the needed repair / replacement. If the repair cannot be completed and the vessel cannot be emptied in 45 days, the permittee may use up to two extensions of 30 additional days each. [N.J.A.C. 7:27-16.2(r)11]
29	For IFRT, EFRT and domed EFRT: Except during preventive maintenance, repair, or inspection periods specified at [N.J.A.C.7:27-16.2(r)] that do not exceed 72 hours, both the primary seal and the secondary seal shall cover the annular space between the floating roof and the wall of the storage tank in a continuous fashion, as required at [N.J.A.C.7:27-16.2 (l)3iii] and iv above. [N.J.A.C.16.2(l)7iv2], [N.J.A.C.16.2(l)6i] and [N.J.A.C. 7:27-16.2(l)3x]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	When performing a roof landing of an EFRT, an IFRT or domed IFRT: 1. When the roof is resting on its leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and 2. Any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C.7:27-16.2(n)] and [N.J.A.C. 7:27-16.2(o)]	None.	Other: The owner or operator shall maintain on-site for the tank, for five years, the records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1, the records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. [N.J.A.C. 7:27-16.2(s)2 & 3] &[N.J.A.C. 7:27-16.22(a)].	None.
31	For all Range III storage tanks an authorized inspector shall annually inspect the ground level periphery of each tank for possible leaks in the tank shell. [N.J.A.C. 7:27-16.2(r)3]	Other: Monitored by an authorized inspector annually.[N.J.A.C. 7:27-16.2(r)].	Other: Record the findings in section D "Ground Level Inspection" of the Inspection Form at N.J.A.C. 7:27-16 Appendix II. [7:27-16.2(r)3] Maintain all inspection reports for the lifetime of the tank.[N.J.A.C. 7:27-16.2(s)5].	None.
32	For all Range III storage tanks an authorized inspector shall complete all necessary calculations. [N.J.A.C. 7:27-16.2(r)4] The authorized inspector performing the inspection must have a copy of the relevant portions of the Operating Permit pertinent to the tank being inspected. The inspector shall compare the permit to the existing tank and actual operating conditions of the tank. [N.J.A.C. 7:27-16.2(r)2]	None.	Other: Record all required data in the Inspaction Form and Fugitive Emissions Form at N.J.A.C. 7:27-16 Appendix II The inspector shall record any discrepancies between the permit equipment description and the existing tank, or the permit conditions and the actual operating conditions of the tank, as verified during the inspection, in section J of the Inspection Form.[N.J.A.C. 7:27-16.2(r)2].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	For EFRT, IFRT and domed EFRT: Annually, from the platform, or from an opening in the domed or fixed roof, visually inspect the roof to check for permit and rule violations, and visually checking the roof for unsealed roof legs, open hatches, open emergency roof drains, open vacuum breakers, or tears in the fabric of the visible seal. [N.J.A.C.7:27-16.2(r)6ii], [N.J.A.C.7:27-16.2(r)8],[N.J.A.C. 7:27-16.2(r)7] and [N.J.A.C. 7:27-16.2(r)5i]	Other: Monitored by visual determination by an authorized inspector annually. During the inspection, the authorized inspector performing the inspection must have a copy of the relevant portions of the Operating Permit pertinent to the tank being inspected. The inspector shall compare the permit to the existing tank and actual operating conditions of the tank. [7:27-16.2(r)2][N.J.A.C. 7:27-16.2(r)5i].	Other: Record the findings in section F(4) of the Inspection Form at N.J.A.C. 7:27-16 Appendix II. [7:27-16.2(r)5i] The inspector shall record any discrepancies between the permit equipment description and the existing tank, or the permit conditions and the actual operating conditions of the tank, as verified during the inspection, in section J "Comments" of the Inspection Form. [7:27-16.2(r)2] Maintain all inspection reports for the lifetime of the tank. [7:27-16.2(s)5] Maintain all repair and replacement records for a period of at least 5 years. [7:27-16.2(s)8] and[N.J.A.C. 7:27-16.22(a)].	Repair equipment: As per the approved schedule. The permittee shall repair or replace any piping, valve, vent, seal, gasket or cover of a roof that is defective, has a visible gap or is not leak-free or does not meet any applicable requirement [7:27-16.2(r)10]. The permittee shall perform the repair or replacement if the tank is already degassed, prior to filling; or if the tank is not degassed, within 45 days after discovery of the needed repair or replacement. If the repair cannot be completed and the vessel cannot be emptied in 45 days, the owner or operator may use up to two extensions of up to 30 additional days each. [N.J.A.C. 7:27-16.2(r)11]
34	For an EFRT: Annually inspect the deck fittings for visible gaps using 1/8 inch probes. [N.J.A.C.7:27-16.2(r)5ii]. For an IFRT and domed EFRT: Each time the tank is degassed but no less than once every ten years, inspect the deck fittings for visible gaps using 1/8 inch probes. [N.J.A.C.7:27-16.2(r)8], [N.J.A.C.7:27-16.2(r)7], [N.J.A.C.7:27-16.2(r)5ii] and [N.J.A.C. 7:27-16.2(r)6iii]	Other: Monitored by an authorized inspector annually for EFRTs and each time the tank is degassed but no less than once every ten years for IFRTs. [N.J.A.C.7:27-16.2(r)5ii] and[N.J.A.C. 7:27-16.2(r)6iii].	Other: Record the findings in section F(4) of the Inspection Form at N.J.A.C. 7:27-16 Appendix II. [7:27-16.2(r)5i] Maintain all inspection reports for the lifetime of the tank. [7:27-16.2(s)5] Maintain all repair and replacement records for a period of at least 5 years. [7:27-16.2(s)8][N.J.A.C. 7:27-16.22(a)].	Repair equipment: As per the approved schedule. The permittee shall repair or replace any piping, valve, vent, seal, gasket or cover of a roof that is defective, has a visible gap or is not leak-free or does not meet any applicable requirement [7:27-16.2(r)10]. The permittee shall perform the repair or replacement if the tank is already degassed, prior to filling; or if the tank is not degassed, within 45 days after discovery of the needed repair or replacement. If the repair cannot be completed and the vessel cannot be emptied in 45 days, the owner or operator may use up to two extensions of up to 30 additional days each. [N.J.A.C. 7:27-16.2(r)11]
35	For an IFRT: Equip each fixed roof support column and well with a sliding cover that is gasketed or with flexible fabric sleeves. [N.J.A.C. 7:27-16.2(l)7i]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	For an IFRT: Equip each ladder well with a gasketed cover. The cover shall be closed at all times, with no visible gaps, except when the well must be opened for access. [N.J.A.C. 7:27-16.2(l)7ii]	None.	None.	None.
37	For an IFRT installed prior to July 23, 1984, ensure that the concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 50% of its lower explosive limit. [N.J.A.C. 7:27-16.2(l)7v]. For an IFRT installed after July 23, 1984, or a domed EFRT installed after May 19, 2009, ensure that the concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 30% of its lower explosive limit. [N.J.A.C.7:27-16.2(l)7vi] & [N.J.A.C. 7:27-16.2(l)6ii]	Other: Monitored annually by an authorized inspector using an explosimeter.[N.J.A.C. 7:27-16.2(r)6i].	Other: Record the reading in section E of the Inspection Form. [N.J.A.C. 7:27-16.2(r)6i] Maintain all inspection reports for the lifetime of the tank.[N.J.A.C. 7:27-16.2(s)5].	None.
38	The owner or operator of a Group 1 storage vessel that is part of a new or existing source shall comply with the requirements in 40 CFR 63 Subpart WW. [40 CFR 63.660]	None.	None.	None.
39	For the purposes of [40 CFR 63 Subpart WW], an EFR located in a storage vessel to which a fixed roof has been added is considered to be an IFRT. [40 CFR 63.1061]	None.	None.	None.
40	The owner or operator of a Group 1 storage vessel shall operate and maintain an IFR or an EFR. [40 CFR 63.1062(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	An IFR shall be equipped with a liquid-mounted seal, or a mechanical shoe seal, or two seals mounted one above the other. If the two seal combination is used, the lower seal may be vapor-mounted. [40 CFR 63.1063(a)(1)(i)(A)], (B) and (C). If the IFR is equipped with a vapor-mounted seal as of June 30, 2014, the requirements above do not apply until the next time the storage vessel is completely emptied and degassed, or 10 years after February 1, 2016, whichever comes first. [40 CFR 63.1063(a)(1)(i)(D)], [40 CFR 63.660(c)(1)] and [40 CFR 63.660(c)(2)]	Other: Inspect the tank as specified at [40 CFR 63.1063(d)(1)] before the initial filling.[40 CFR 63.1063(c)(1)]. Any of the conditions described at [40 CFR 63.1063(d)(1)(ii)] through (d)(1)(v) constitutes inspection failure. [40 CFR 63.1063(d)(1)]. Inspect the tank as specified at [40 CFR 63.1063(d)(2)] at least once per year.[40 CFR 63.1063(c)(1)(i)(A)]. Any of the conditions described at [40 CFR 63.1063(d)(1)(i)] through (d)(1)(iv) constitutes inspection failure. [40 CFR 63.1063(d)(2)]. Inspect the tank as specified at [40 CFR 63.1063(d)(1)] each time the tank is completely emptied and degassed, or every 10 years, whichever occurs first. [40 CFR 63.1063(c)(1)(i)(B)]. Any of the conditions described at [40 CFR 63.1063(d)(1)(i)] through (d)(1)(v) constitutes inspection failure. [40 CFR 63.1063(d)(1)].[40 CFR 63.1063(d)(1)].	Other: Keep all records for at least 5 years so that they can be readily accessed within 24 hours. [40 CFR 63.1065]. For each storage vessel, keep records of the dimensions, an analysis of the capacity, and an identification of the liquid stored. [40 CFR 63.1065(a)]. Keep records of all floating roof inspection results as specified at 40 CFR 63.1065(b)(1). [40 CFR 63.1065(b)]. For each storage tank, record the date the floating roof was set on its legs, the date the roof was refloated, and whether the refloating process was continuous. [40 CFR 63.1065(c)]. A permittee electing to use an extension per 40 CFR 63.1063(e)(2) shall keep the relevant documentation.[40 CFR 63.1065(d)].	Repair equipment: As per the approved schedule. Conditions that constitute inspection failures shall be repaired as specified at [40 CFR 63.1063(e)(1)] or (2). [40 CFR 63.1063(e)]. Submit Periodic Reports no later than 60 days after the end of each 6-month period when information specified at 40 CFR 63.655(g)(2)(ii) is collected. A Periodic Report is not required if none of the events identified at 40 CFR 63.655(g)(2)(ii) occurred during the 6-month period. [40 CFR 63.655(e)(2)] and [40 CFR 63.655(g)]. Submit notifications of inspections as specified at 40 CFR 63.655(h)(2)(i). [40 CFR 63.655(h)(2)] and [40 CFR 63.655(e)(3)]. Periodic reports must contain inspection notifications, inspection results and requests for extensions. [40 CFR 63.1066(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	An EFR shall be equipped with a liquid-mounted seal and a secondary seal or a mechanical shoe seal and a secondary seal with the upper end of the shoe(s) extending a minimum of 61 cm (24 inches) above the stored liquid surface. [40 CFR 63.1063(a)(1)(ii)(A)] and (B). If the EFR is equipped with a liquid-mounted seal, a mechanical shoe seal, or a vapor-mounted seal and secondary seal as of June 30 2014, the requirements above do not apply until the next time the storage vessel is completely emptied and degassed, or 10 years after February 2016, whichever occurs first. [40 CFR 63.1063(a)(1)(ii)(C)], [40 CFR 63.660(c)(1)] and [40 CFR 63.660(c)(2)]	Other: Inspect the secondary seal at least once every year, and inspect the primary seal at least every 5 years, as specified at [40 CFR 63.1063(d)(3)]. [40 CFR 63.1063(c)(2)(ii)]. Any exceedance of the gap requirements at [40 CFR 63.1063(d)(3)] constitutes inspection failure. [40 CFR 63.1063(d)(3)]. Inspect the tank as specified at [40 CFR 63.1063(d)(1) each time the tank is completely emptied and degassed, or every 10 years, whichever occurs first. [40 CFR 63.1063(d)(1)].[40 CFR 63.1063(c)(2)(iii)]. Any of the conditions described at [40 CFR 63.1063(d)(1)(i) through (d)(1)(v) constitutes inspection failure. [40 CFR 63.1063(d)(1)]. If the permittee determines that it is unsafe to perform the floating roof inspections specified at [40 CFR 63.1063(c)(2)(ii)], the permittee shall comply with [40 CFR 63.1063(c)(2)(iv)(A)] or B.[40 CFR 63.1063(c)(2)(iv)].	Other: Keep all records for at least 5 years so that they can be readily accessed within 24 hours. [40 CFR 63.1065]. For each storage vessel, keep records of the dimensions, an analysis of the capacity, and an identification of the liquid stored. [40 CFR 63.1065(a)]. Keep records of all floating roof inspection results as specified at 40 CFR 63.1065(b)(1) and (2). [40 CFR 63.1065(b)]. For each storage tank, record the date the floating roof was set on its legs, the date the roof was refloated, and whether the refloating process was continuous. [40 CFR 63.1065(c)]. A permittee electing to use an extension per 40 CFR 63.1063(e)(2) or [40 CFR 63.1063(c)(2)(iv)(B) shall keep the relevant documentation.[40 CFR 63.1065(d)].	Repair equipment: As per the approved schedule. Conditions that constitute inspection failures shall be repaired as specified at [40 CFR 63.1063(e)(1)] or (2). [40 CFR 63.1063(e)]. Submit Periodic Reports no later than 60 days after the end of each 6-month period when information specified at 40 CFR 63.655(g)(3)(ii) is collected. A Periodic Report is not required if none of the events identified at 40 CFR 63.655(g)(3)(ii) occurred during the 6-month period. [40 CFR 63.655(e)(2)] and [40 CFR 63.655(g)]. Submit notifications of inspections as specified at 40 CFR 63.655(h)(2)(i) and (ii). [40 CFR 63.655(h)(2)] and [40 CFR 63.655(e)(3)]. Periodic reports must contain the information spacified at 40 CFR 63.1066(b)(1), (2) and (4). [40 CFR 63.1066(b)]
43	Openings through the deck of the floating roof shall be equipped as specified at 40 CFR 63.1063(a)(2)(i) through viii. [40 CFR 63.1063(a)(2)]. If the floating roof does not meet the requirements above as of June 30 2014, these requirements do not apply until the next time the vessel is completely emptied and degassed, or 10 years after February 1, 2016, whichever occurs first. [40 CFR 63.660(c)(1)], [40 CFR 63.660(c)(2)] and [40 CFR 63.1063(a)(2)(ix)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	Each opening through a floating roof for a ladder having at least one slotted leg shall be equipped with one of the following control options: A pole float in the slotted leg and pole wipers for both legs. The wiper or seal of the pole float must be at or above the height of the pole wiper, A ladder sleeve and pole wipers for both legs of the ladder, or A flexible enclosure device and either a gasketed or welded cap on the top of the slotted leg. [40 CFR 63.660(b)(2)(i)] through [40 CFR 63.660(b)(2)(iii)]	None.	None.	None.
45	The floating roof shall float on the stored liquid surface at all times, except when the floating roof is supported by its leg supports or other support devices (e.g., hangers from the fixed roof). [40 CFR 63.1063(b)(1)]	None.	None.	None.
46	When the storage vessel is storing liquid, but the liquid depth is insufficient to float the floating roof, the process of filling to the point of refloating the floating roof shall be continuous and shall be performed as soon as practical. [40 CFR 63.1063(b)(2)]	None.	None.	None.
47	Each cover over an opening in the floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall be closed at all times, except when the cover must be open for access. [40 CFR 63.1063(b)(3)]	None.	None.	None.
48	Each automatic bleeder vent (vacuum breaker vent) and rim space vent shall be closed at all times, except when required to be open to relieve excess pressure or vacuum, in accordance with the manufacturer's design. [40 CFR 63.1063(b)(4)]	None.	None.	None.
49	Each unslotted guidepole cap shall be closed at all times except when gauging the liquid level or taking liquid samples. [40 CFR 63.1063(b)(5)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR5 (Reqs apply to: U53, U67)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Each floating roof shall be equipped with a closure device between the wall of the separator and the roof edge. The closure device is to consist of a primary seal and a secondary seal. [40 CFR 60.693-2(a)(1)]	None.	None.	Submit notification: Once initially. The owner or operator shall notify the Administrator in the report required by 40 CFR Part 60.7 that the owner or operator has elected to construct and operate a floating roof under 40 CFR Part 60.693-2(a). [40 CFR 60.693-2(b)]
2	The primary seal shall be a liquid-mounted seal or a mechanical shoe seal. The gap width between the primary seal and the separator wall shall not exceed 1.5 in. at any point. The total gap area between the primary seal and the separator wall shall not exceed 3.2 square inches per foot of separator wall perimeter. [40 CFR 60.693-2(a)(1)(i)]	Other: The maximum gap width and total gap area shall be determined by the methods and procedures specified in 40 CFR 60.696(d). Measurement of primary seal gaps shall be performed within 60 calendar days after initial installation of the floating roof and introduction of refinery wastewater and once every 5 years thereafter.[40 CFR 60.693-2(a)(1)(iii)].	Other: Permittee shall record the location, date, and corrective action. Records shall be maintained for ten years after the information is recorded.[40 CFR 60.697(k)].	Repair equipment: Within 30 calendar days from identification of a problem. [40 CFR 60.693-2(a)(1)(iv)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). [40 CFR 60]
3	The secondary seal shall be above the primary seal and cover the annular space between the floating roof and the wall of the separator. The gap width between the secondary seal and the separator wall shall not exceed 0.5 inch at any point. The total gap area between the secondary seal and the separator wall shall not exceed 0.32 inches per foot of separator wall perimeter. [40 CFR 60.693-2(a)(1)(ii)]	Other: The maximum gap width and total gap area shall be determined by the methods and procedures specified in 40 CFR 60.696(d). Measurement of secondary seal gaps shall be performed within 60 calendar days of initial introduction of refinery wastewater and once every year thereafter.[40 CFR 60.693-2(a)(1)(iii)].	Other: Permittee shall record the location, date, and corrective action. Records shall be maintained for two years after the information is recorded.[40 CFR 60.697(k)].	Repair equipment: Within 30 calendar days from identification of a problem. [40 CFR 60.693-2(a)(1)(iv)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). [40 CFR 60]
4	Except for emergency roof drains for removal of stormwater, each opening in the roof shall be equipped with a gasketed cover, seal, or lid, which shall be maintained in a closed position at all times, except during inspection and maintenance. [40 CFR 60.693-2(a)(2)]	None.	None.	None.
5	The roof shall be floating on the liquid (i.e. off the roof supports) at all times except during abnormal conditions (i.e. low flow rate). [40 CFR 60.693-2(a)(3)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Each emergency roof drain, for the removal of stormwater, shall be fitted with a slotted membrane fabric cover that covers at least 90% of the drain opening area or flexible fabric sleeve seal. [40 CFR 60.693-2(a)(4)]	None.	None.	None.
7	Access doors and other openings shall be visually inspected initially and semiannually thereafter to ensure that there is a tight fit around the edges and to identify other problems that could result in VOC emissions. [40 CFR 60.693-2(a)(5)(i)]	None.	Other: The location, date, and corrective action shall be recorded for inspections and shall be maintained for two years after the information is recorded.[40 CFR 60.697(k)].	Repair equipment: Within 30 calendar days from identification. [40 CFR 60.693-2(a)(5)(ii)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). [40 CFR 60]
8	For portions of the oil-water separator tank where it is infeasible to construct and operate a floating roof, such as the skimmer mechanism and weirs, a fixed roof meeting the requirements of 40 CFR 60.692-3(a) shall be installed. [40 CFR 60.693-2(c)] The oil-water separator fixed roof shall be designed to completely cover the separator tank with no separation between the roof and the wall. [40 CFR 60.692-3(a)(1)]	None.	None.	None.
9	All doors or openings of the fixed roof shall be gasketed, latched, and kept closed at all times during operation of the separator system, except during inspectiion and maintenence. [40 CFR 60.692-3(a)(3)]	Other: Roof seals, access doors, and other openings shall be checked by visual inspection initially and semiannually thereafter to ensure that no cracks or gaps occur between the roof and wall and that access doors and other openings are closed and gasketed properly.[40 CFR 60.692-3(a)(4)].	Other: The location, date, and corrective action shall be recorded for inspections and shall be maintained for two years after the information is recorded.[40 CFR 60.697(c)].	Repair equipment: Within 15 calendar days from detection. When a broken seal or gasket or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after it is identified. [40 CFR 60.692-3(a)(5)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). [40 CFR 60]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Each drain shall be equipped with water seal controls. [40 CFR 60.692-2(a)(1)]	Monitored by visual determination at the approved frequency. Each drain in active service shall be checked by visual or physical inspection initially and monthly thereafter for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. [40 CFR 60.692-2(a)(2)]. Each drain out of active service shall be checked by visual or physical inspection initially and weekly thereafter for indications of low water levels or other problems that could result in VOC emissions. [40 CFR 60.692-2(a)(3)]. If an owner or operator elects to install a tightly sealed cap or plug over a drain that is out of service, inspections shall be conducted initially and semiannually to ensure caps or plugs are in place and properly installed. [40 CFR 60.692-2(a)(4)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record the location, date, and corrective action for each drain when a water seal is dry or otherwise breached, when a drain cap or plug is missing or improperly installed, or other problem is identified that could result in VOC emissions. [40 CFR 60.697(b)(1)]	Repair equipment: Upon occurrence of event. If the inspection(s) reveal low water level, the owner or operator shall add water or make first efforts to repair the equipment as soon as practible, but no later than 24 hours after detection. [40 CFR 692-2(a)(5)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). Submit all applicable reports specified at. [40 CFR 60.698(c)]
11	Junction boxes shall be equipped with a cover and may have an open vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter. [40 CFR 60.692-2(b)(1)] Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. [40 CFR 60.692-2(b)(2)]	Monitored by visual determination once initially and semiannually thereafter. Junction boxes shall be visually inspected initially and semiannually thereafter to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge. [40 CFR 60.692-2(b)(3)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record the location, date, and corrective action when a broken seal, gap, or other problem is identified that could result in VOC emissions. [40 CFR 60.697(b)(2)]	Repair equipment: Upon occurrence of event. If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified. [40 CFR 60.692-2(b)(4)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). Submit all applicable reports specified at. [40 CFR 60.698(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Sewer lines shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. [40 CFR 60.692-2(c)(1)]	Monitored by visual determination once initially and semiannually thereafter. The owner or operator shall inspect the unburied portion of each sewer line for indication of cracks in joints, seals, or other problems which could result in VOC emissions. [40 CFR 60.692-2(c)(2)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record the location, date, and corrective action when a problem is identified that could result in VOC emissions. [40 CFR 60.697(b)(3)]	Repair equipment: Upon occurrence of event. Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification. [40 CFR 60.692-2(c)(3)] Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). Submit all applicable reports specified at. [40 CFR 60.698(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Vapor recovery systems (adsorbers) shall be designed and operated to recover the VOC emissions vented to them with an efficiency of 95 percent or greater. [40 CFR 60.692-5(b)]	Other: For a carbon adsorption system that does not regenerate the carbon bed directly onsite, the concentration level of the organic compounds in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater.[40 CFR 60.695(a)(3)(ii)].	Other: If a carbon adsorber that is not regenerated directly onsite is used, maintain records of dates and times when the control device is monitored, when breakthrough is measured, and the date and time that the carbon is replaced with fresh carbon. [60 CFR 697(f)(3)(x)(B)]. Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions shall be kept for the life of the facility. [40 CFR 697.(f)(3)(i)]. For a carbon adsorption system that is not regenerated directly onsite, the design analysis shall consider the vent stream composition, constituent concentrations, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.[40 CFR 60.697(f)(3)(ii)].	Comply with the requirement: As per the approved schedule. Replace the existing carbon with fresh carbon immediately when carbon breakthrough is indicated. As an alternative, replace the carbon in the carbon adsorption system with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and organic concentration in the gas stream vented to the carbon adsorption system. [40 CFR 60.695(a)(3)(ii)]. Submit a semiannual report to the Administrator that indicates each occurrence when the carbon adsorber was not recharged at the predetermined interval (if applicable). [40 CFR 60.698(d)(3)(ii)]
14	Closed vent systems and control devices used to comply with 40 CFR Part 60.692-5 shall be operated at all times when emissions are being vented to them. [40 CFR 60.692-5(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Closed vent systems shall be designed and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, determined during the initial and semiannual inspections by the methods specified in 40 CFR 60.696. [40 CFR 60.692-5(e)(1)]	Other: Monitored by performance test methods and procedures specified at[40 CFR 60.696(b)].	Other: The following shall be recorded and kept for 2 years: i) The date of each measurement of detectable emissions. (ii) The background level measured during each detectable emissions measurement. (iii) The maximum instrument reading measured during each detectable emission measurement. [40 CFR 60.697(f)(3)]. The permittee shall record the location, date, and corrective action when detectable emissions are measured or a problem is identified that could result in VOC emissions.[40 CFR 60.697(d)].	Repair equipment: Within 30 calendar days from identification. When emissions from a closed system are detected, first efforts at repair to eliminate the emissions shall be made as soon as practicable, but not later than 30 calendar days from the date the emissions are detected. [40 CFR 60.692-5(5)]. Delayed repair will be allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. Repairs must be completed before the end of the next refinery or process unit shutdown. [40 CFR 60.692-6(a)] and (b). [40 CFR 60]
16	Closed vent systems shall be purged to direct vapor to the control device.[40 CFR 60.692-5(e)(2)]	Other: A flow indicator shall be installed on a vent stream to a control device to ensure that the vapors are being routed to the device. [40 CFR 60.692-5(e)(3)].[40 CFR 60].	None.	None.
17	All guaging and sampling devices shall be gas-tight except when guaging or sampling is taking place.[40 CFR 60.692-5(e)(4)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR6 (Reqs apply to: U900, U901, U902)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) < 5 tons/yr. Applicable to annual in-service roof landing VOC emissions for the tank. The tank is exempt from the requirements of N.J.A.C.7:27-16.2(p). [N.J.A.C.7:27-16.2(f)6] and. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar year. The owner or operator shall calculate the emissions resulting from in-service floating roof landings for the tank (as defined at N.J.A.C.7:27-16.1) each month during operating using the methodology described at AP-42, Chapter 7 (November 2006 or later version). The emissions for each month shall be added to the emissions for the previous months of the calendar year. The procedure will begin in January 2010. The emissions from months prior to January 2010 will not be used to determine compliance with this requirement. [N.J.A.C.7:27-16.2(f)6] and . [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation The owner or operator shall maintain on-site, for the tank, for five years: 1. Records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; 2. Records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1; 3. The records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. 4. The in-service roof landing emissions for the month and the the in-service roof landing emissions for the previous months of the calendar year. [N.J.A.C.7:27-16.2(s)] and. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	If a tank storing VOC with a vapor pressure >= 0.5 psia (at standard conditions) is to be degassed within the time frame May 1 through and September 30, the following procedure must be adopted: 1) Empty the tank of the VOC liquid. 2) Minimize tank vapor space VOC vapors by one of the following methods. i) Exhaust VOC vapors to a vapor control system rated at 95% efficiency until the vapor concentration is less than/equal to 5000 ppmv as methane, or less than/equal to 10% of the lower explosive limit. ii) Displace VOC vapors to a vapor control system rated at 95% efficiency by filling the tank with a suitable liquid until at least 90% of the tank maximum operating level is filled. (Suitable liquids are organic liquids having a TVP of less than 0.5 psia or water). 3) Discharge or displace the VOC in the tank vapor space to a vapor control system that is vapor-tight and free of liquid leaks. [N.J.A.C. 7:27-16.2(q)1]	None.	Other: Record all relevant tank degassing activities performed.[N.J.A.C. 7:27-16.2(s)].	None.
3	If a tank storing VOC with a vapor pressure >= 0.5 psia (at standard conditions) is to be cleaned within the time frame May 1 through and September 30, at least one of the following cleaning agents must be used: 1) Diesel fuel, 2) A solvent with an IBP greater than 302 F, 3) A solvent with a vapor pressure less than 0.5 psia, 4) A solvent with 50 grams per liter VOC content or less, 5) A Dept-approved cleaning agent, or 6) Steam. [N.J.A.C. 7:27-16.2(q)2]	None.	Other: Record all relevant tank cleaning activities performed.[N.J.A.C. 7:27-16.2(s)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	If a tank storing VOC with a vapor pressure >= 1.5 psia (at standard conditions) is to be desludged within the time frame May 1 through September 30, the following procedure must be followed: 1) During sludge removal, control missions from the receiving vessel by operating a vapor control system that reduces VOC emissions by at least 95%. 2) Transport removed sludge in containers that are vapor-tight and free of liquid leaks. 3) Store removed sludge, until final disposal, in containers that are vapor-tight and free of liquid leaks, or in tanks that comply with [7:27-16.2(b)]. [N.J.A.C. 7:27-16.2(q)3]	None.	Other: Record all relevant tank sludge removal activities performed.[N.J.A.C. 7:27-16.2(s)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR8 (Reqa apply to: U53, U802)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All requests, reports, applications, submittal, and other communications required by 40 CFR 61 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. [40 CFR 61.04(a)]	None.	None.	None.
2	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 61 to the NJDEP Regional Enforcement Office. [40 CFR 61.04(b)]	None.	None.	None.
3	The owner or operator of an existing source which had an initial startup before the effective date shall provide the information specified at 40 CFR 61.10(a)(1) through (a)(7) in writing to the Administrator within 90 days after the effective date. [40 CFR 61.10(a)]	None.	None.	Submit a report: Once initially. [40 CFR 61.10(a)]
4	The owner or operator of each stationary source shall maintain and operate the source, including associated equipment for air pollution control, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operating and maintenance procedures, and inspection of the source. [40 CFR 61.12(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator shall maintain each monitoring system as specified in the applicable subpart and in a manner consistent with good air pollution control practice for minimizing emissions. Any unavoidable breakdown or malfunction of the monitoring system should be repaired or adjusted as soon as practicable after its occurrence. [40 CFR 61.14(b)]	None.	None.	None.
6	The owner or operator shall maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. These records shall be maintained at the source for a minimum of 2 years and made available, upon request, for inspection by the Administrator. [40 CFR 61.14(f)]	None.	None.	None.
7	No owner or operator shall build, erect, install, or use any article machine, equipment, process, or method, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous dilutants to achieve compliance with a visible emissions standard, and the piecemeal carrying out of an operation to avoid coverage by a standard that applies only to operations larger than a specified size. [40 CFR 61.19]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR9 (Reqs apply to U900, OS1, OS2, OS3, OS4, OS25, OS26, OS27, OS28, OS29, OS30, OS31, OS32)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Each tank in this group is limited to store one of the following materials: 97% by volume wastewater, or 97% by volume crude oil, or any VOC with absolute vapor pressure of less than 3 psia. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling per change of material. If storing 97% wastewater, the permittee shall take a sample every month and analyze the wastewater for the oil content. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by certified lab analysis results per change of material. The wastewater results will be recorded on a monthly basis. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 FCCU Regenerator with In-Line Heater and Wet Gas Scrubber Control Device**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	For additional requirements see GR1& Table 44 of [40 CFR 63 Subpart UUU]. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for TSP as specified in the compliance plan for OS1 (annually). Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Management Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for CO, NOx, TSP, PM10, VOC, SO2, SO3/H2SO4, Benzene, Hydrogen Cyanide and Nickel Compounds as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx, CO, and/or SO2 with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
4	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
6	Particulate Emissions <= 30 lb/hr based on 0.02 grains per standard cubic foot. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
7	SO2 <= 2,000 ppmv. Maximum allowable emission limit for SO2. [N.J.A.C. 7:27-7.2(b)1]	None.	None.	None.
8	SO2 <= 1,100 lb/hr. Maximum allowable emission rate for SO2 in any 60-minute period from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
9	SO2 <= 2,200 lb/hr. Maximum allowable emission rate for SO2 at any instant from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27-7.2(b)2]	None.	None.	None.
10	SO3 and H2SO4, as converted and expressed as H2SO4 <= 10 mg/ft^3 at standard conditions. Maximum allowable concentration in gases being discharged. [N.J.A.C. 7:27- 7.2(g)1]	None.	None.	None.
11	SO3 and H2SO4, as converted and expressed as H2SO4 <= 250 lb/hr. Maximum allowable emission rate in any 60-minute period from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27- 7.2(g)2]	None.	None.	None.
12	SO3 and H2SO4, as converted and expressed as H2SO4 <= 500 lb/hr. Maximum allowable emission rate for H2SO4 at any instant from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27- 7.2(g)2]	None.	None.	None.
13	SO3 and H2SO4, as converted and expressed as H2SO4 <= 51.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	SO3 and H2SO4, as converted and expressed as H2SO4: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	SO3 and H2SO4, as converted and expressed as H2SO4: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	VOC (Total) <= 15 % by weight of process emissions or 3.5 lbs/hr, whichever is greater, from the regenerator. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
15	VOC (Total): Maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: Maintain readily accessible records.[N.J.A.C. 7:27-16.22(o)].	None.
16	VOC (Total) <= 43 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	NOx (Total) <= 223 tons/yr based on a 12 month rolling period. [N.J.A.C. 7:27-22.16(a)]	Other: Annual emissions shall be determined by a data acquisition system (DAS). The DAS shall be configured to store monthly average emission rates based upon data collected from the continuous emission monitoring system (CEMS) and flow meter. At the conclusion of each calendar month, the DAHS shall calculate the twelve month rolling total emission level, culminating in that month. The twelve month rolling total emissions shall be calculated by adding the average emissions for any one month to the sum of the rolling total emissions for the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Permittee shall maintain copies of each month's total emissions and the twelve month rolling total emissions culminating in such calendar month for a period of five years. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	CO <= 151 tons/yr based on a 12 month rolling period. [N.J.A.C. 7:27-22.16(a)]	Other: Annual emissions shall be determined by a data acquisition system (DAS). The DAS shall be configured to store monthly average emission rates based upon data collected from the continuous emission monitoring system (CEMS) and flow meter. At the conclusion of each calendar month, the DAHS shall calculate the twelve month rolling total emission level, culminating in that month. The twelve month rolling total emissions shall be calculated by adding the average emissions for any one month to the sum of the rolling total emissions for the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Permittee shall maintain copies of each month's total emissions and the twelve month rolling total emissions culminating in such calendar month for a period of five years. [N.J.A.C. 7:27-22.16(o)]	None.
19	SO2 <= 172 tons/yr based on a 12 month rolling period. [N.J.A.C. 7:27-22.16(a)]	Other: Annual emissions shall be determined by a data acquisition system (DAS). The DAS shall be configured to store monthly average emission rates based upon data collected from the continuous emission monitoring system (CEMS) and flow meter. At the conclusion of each calendar month, the DAHS shall calculate the twelve month rolling total emission level, culminating in that month. The twelve month rolling total emissions shall be calculated by adding the average emissions for any one month to the sum of the rolling total emissions for the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. Permittee shall maintain copies of each month's total emissions and the twelve month rolling total emissions culminating in such calendar month for a period of five years. [N.J.A.C. 7:27-22.16(o)]	None.
20	TSP <= 131.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	PM-10 (Total) <= 262.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Benzene <= 2.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Hydrogen cyanide <= 243 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen cyanide: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Hydrogen cyanide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Nickel compounds: shall be below reporting threshold of 0.1 tons per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Flowrate <= 208,723 SCFM on a wet basis. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by flue gas flow rate instrument continuously. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
26	The owner or operator shall adhere to the monitoring protocol approved by the Department. The protocol includes provisions for monitor downtime. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	The owner or operator shall submit a quarterly report summarizing any exceedances, during the quarter, of emission rates or operating requirements to the Regional Enforcement Office. When no excess emissions have occurred or the continuous emission monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. An "Excess Emissions and Monitoring Performance Report (EEMPR) available from the Regional Enforcement Office shall be used for reporting. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
28	pH of the Scrubbing Solution at the Inlet of the Scrubber >= 5 other units for the Polishing Scrubber. [N.J.A.C. 7:27-22.16(a)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Monitored by pH instrument once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Particulate Matter (PM) emissions must not the exceed 1.0 kilogram (kg) per 1,000 kg (1.0 lb/1,000 lb) of coke burn-off in the catalyst regenerator [40 CFR 60.102(a)(1)] and [40 CFR 63.1564(a)(1)]	Other: Monitor the average daily coke burn-off rate.[40 CFR 63.1564(c)(1)].	Other: Record each day the average coke burn-off rate (thousands of kilograms per hour) using Equation 1 in 40 CFR 63.1564 and the generator hours of operation. [Table 6 to 40 CFR 63 Subpart UUU] and [40 CFR 63.1564(c)(1)]. Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance using the procedures in [40 CFR 63.1571(a)(1)] through (4), Table 4 and Table 5 of [40 CFR 63 Subpart UUU]. [40 CFR 63.1564(b)(2)] and (5). Submit the Notification of Compliance Status containing the results of the initial compliance demonstration in accordance with [40 CFR 63.1574]. [40 CFR 63.1564(b)(7)]. Demonstrate continuous compliance by determining and recording each day the average coke burn-off rate using Equation 1 in 40 CFR 63.1564 and the hours of operation for the catalyst regenerator, and maintaining PM emission rate below 1.0 kg/1,000 kg (1.0 lb/1,000 lbs) of coke burn-off. [40 CFR 63.1564(c)(1)] and Table 6 of this subpart. Report deviations according to [40 CFR 63.1570(f)]. Submit reports semiannually as specified at. [40 CFR 63.1575]
30	Periodic performance testing for PM: Starting no later than August 1 2017, conduct a PM performance test at least once every 5 years according to the requirements in Table 4 of [40 CFR 63. Subpart UUU]. Repeat the test annually if the PM emissions measured during the most recent test are greater than 0.80 g/kg (0.8 lb/1000 lb) coke burn-off. [40 CFR 63.1571(a)(5)] and [40 CFR 63.1571(a)(5)(ii)]	Other: Conduct the performance test using the procedures at Table 4 of [40 CFR 63 Subpart UUU].[40 CFR 63.1571(a)(5)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Submit a report: As per the approved schedule. Report deviations according to [40 CFR 63.1570(f)]. Submit reports semiannually as specified at. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	One-time performance testing for HCN: Conduct a performance test for HCN no later than August 1, 2017 using the procedures at [40 CFR 63.1571(a)(6)(ii)]. If you conducted a performance test for HCN between March 31, 2011 and February 1, 2016, you may request the Administrator to use the previously conducted test results to fulfill the one-time HCN test requirements according to [40 CFR 63.1571(a)(6)(i)(A)] through (D). [40 CFR 63.1571(a)(6)(i)]	Other: Conduct a performance test for HCN no later than August 1, 2017 using the procedures[40 CFR 63.1571(a)(6)(ii)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Submit a report: As per the approved schedule. Report deviations according to [40 CFR 63.1570(f)]. Submit reports semiannually as specified at. [40 CFR 63.1576]
32	The opacity of emissions must not exceed 30 percent, except for one 6-minute average opacity reading in any 1-hour period [40 CFR 60.102(a)(2)] and [40 CFR 63.1564(a)(1)]	Other: Monitored by an alternative monitoring plan (AMP) approved by the EPA on 9/29/2004.[40 CFR 60.13(i)].	Other: Maintain records as per the alternative monitoring plan (AMP) approved by the EPA on 9/29/2004.[40 CFR 60.13(i)].	Demonstrate compliance: Other - as per the alternative monitoring plan (AMP) approved by the EPA on 9/29/2004. [40 CFR 60.13(i)]
33	Pressure of water to the filtering modules of the Belco scrubber >= 41 psig. (Surrogate for opacity per AMP approved by the EPA on 9/29/2004). [40 CFR 60.13(i)]	N/A surrogate for Opacity: Monitored by pressure drop instrument continuously, based on a 1 hour block average. The 1-hr block average must have at least four 15-min data points to calculate the 1-hr block average. (See EPA approval letter dated 6/21/2016). [40 CFR 60.13(i)]	N/A surrogate for Opacity: Recordkeeping by strip chart or data acquisition (DAS) system continuously based on a 1-hr block average. Maintain records of water pressure at the plant site for at least 3 years. [40 CFR 60.13(i)]	Submit a report: Other. Semiannually as specified at 40 CFR 63.1575 Calibration of the water pressure measurement system shall be checked semiannually and the results included in the excess emission report. [40 CFR 60.13(i)]
34	Flue gas pressure drop across the filtering modules/cyclolabs of the Belco scrubber >= 10 inches w.c. (Surrogate for opacity per AMP approved by the EPA on 9/29/2004). [40 CFR 60.13(i)]	N/A surrogate for Opacity: Monitored by pressure drop instrument continuously, based on a 1 hour block average. The 1-hr block average must have at least four 15-min data points to calculate the 1-hr block average. (See EPA approval letter dated 6/21/2016). [40 CFR 60.13(i)]	N/A surrogate for Opacity: Recordkeeping by strip chart or data acquisition (DAS) system continuously based on a 1-hr block average. Maintain records of flue gas pressure drop at the plant site for at least 3 years. [40 CFR 60.13(i)]	Submit a report: Other. Semiannually as specified at 40 CFR 63.1575 Calibration of the flue gas pressure drop measurement system shall be checked semiannually and the results included in the excess emission report. Report all excess emissions. [40 CFR 60.13(i)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	Metal HAP Emissions: Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1564(a)(3)]	Other: Operate at all times according to the procedures in the OMMP.[40 CFR 63.1564(a)(3)].	Other: Maintain records to document conformance with the procedures in your OMMP. [40 CFR 63.1564(c)(2)]. Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance by submitting your OMMP to your permitting authority as part of your Notification of Compliance Status. [40 CFR 63.1564(b)(6)]. Demonstrate continuous compliance by maintaining records to document conformance with the procedures in your OMMP [40 CFR 63.1564(c)(2)]. Report deviations according to [40 CFR 63.1570(f)]. Submit semiannual reports per. [40 CFR 63.1575]
36	Metal HAP Emissions: During periods of startup, shutdown and hot standby comply with the requirements at [40 CFR 63.1564(a)(1)] and (a)(2), except that units using a wet scrubber must maintain only the liquid to gas ratio operating limit (the pressure drop operating limit does not apply). [40 CFR 63.1564(a)(5)(i)]	Other: Monitor the wet gas scrubber liquid to gas ratio operating limit (the pressure drop operating limit does not apply).[40 CFR 63.1564(a)(5)(i)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Report deviations according to [40 CFR 63.1570(f)].. Submit semiannual reports per. [40 CFR 63.1575]
37	CO emissions from the catalyst regenerator vent must not exceed 500 parts per million volume (ppmv) (dry basis). [40 CFR 60.103(a)] and [40 CFR 63.1565(a)(1)]	Other: A CO continuous monitoring system need not be installed if the owner or operator demonstrates that the average CO emissions are less than 50 ppm (dry basis) and also files a written request for exemption to the Administrator and receives such an exemption. [40 CFR 60.105(a)(2)(ii)]. The facility applied for and received this exemption from EPA. EPA exemption letter dated September 26, 2003 on file.[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	Organic HAP Emissions: Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1565(a)(3)]	Other: Operate at all times according to the procedures in the plan.[40 CFR 63.1565(a)(3)].	Other: Maintain records to document conformance with the procedures in your OMMP. [40 CFR 63.1565(c)(2)]. Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance by submitting the OMMP to your permitting authority as part of your Notification of Compliance Status according to [40 CFR 63.1574]. [40 CFR 63.1565(b)(5)]. Demonstrate continuous compliance by complying with the procedures in your OMMP. [40 CFR 63.1565(c)(2)] Report deviations according to [40 CFR 63.1570(f)].. Submit semiannual reports per. [40 CFR 63.1575]
39	Organic HAP Emissions: During periods of startup, shutdown and hot standby: You can elect to comply with the requirements in [40 CFR 63.1565(a)(1)]; or You can elect to maintain the oxygen (O2) concentration in the regenerator exhaust gas at or above 1 volume percent (dry basis). [40 CFR 63.1565(a)(5)]	Other: Monitor the regenerator CO emissions (ppmv dry basis) or regenerator excess O2 (vol % dry basis).[40 CFR 63.1565(a)(5)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	. Report deviations according to [40 CFR 63.1570(f)]. Submit semiannual reports per Demonstrate compliance: As per the approved schedule. [40 CFR 63.1575]
40	Maintain FCCU catalyst regenerator SO2 emissions at less than or equal to 50 ppm by volume (ppmv) determined daily on a 7-day rolling average basis. [40 CFR 60 104(b)(1)] and [40 CFR 60.104(c)]	Other: Install an instrument to continuously monitor and record the concentration of SO2 in the gases discharged from the regenerator. [40 CFR 60.105(a)(9)(i)] and (ii). The permittee shall evaluate the continuous monitoring system using the procedures at [40 CFR 60.105(a)(12)(i)] and[40 CFR 60.105(a)(12)(ii)].	Other: The continuous monitoring system data must be recorded at all times, except during system breakdowns, repairs, calibration checks, and zero and span adjustments. [40 CFR 60.105(a)(11)]. When data is not obtained because of breakdowns, repairs, calibration checks, and zero and span adjustments, the minimum emission data must be obtained by using one of the methods at [40 CFR 60.105(a)(13)(i)] through (iii) Each owner or operator shall record and maintain the information specified at [40 CFR 60.107 (b)(1)] and[40 CFR 60.107(b)(4)].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance using the procedures and methods specified at [40 CFR 60.8] and [40 CFR 60.106(g)]. Continuous compliance is to be determined daily on a 7-day rolling average basis using the procedures outlined at [40 CFR 60.106(h)]. [40 CFR 60.104(c)]. Semi-annual reports are to be submitted according to [40 CFR 60.107(f)] and (g). Include all information specified at [40 CFR 60.107(c)] and. [40 CFR 60.107(d)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	Install an instrument to continuously monitor and record the concentration of oxygen (O2) in the gases at the outlet of the regenerator. The span of this monitor shall be set at 10 percent. [40 CFR 60.105(a)(10)]	Other: The permittee shall evaluate the continuous monitoring system using the procedures at [40 CFR 60.105(a)(12)(i)] and[40 CFR 60.105(a)(12)(ii)].	Other: The continuous monitoring system data must be recorded at all times, except during system breakdowns, repairs, calibration checks, and zero and span adjustments. [40 CFR 60.105(a)(11)]. When data is not obtained because of breakdowns, repairs, calibration checks, and zero and span adjustments, minimum emission must be obtained by using one of the methods at [40 CFR 60.105(a)(13)(i)] through[40 CFR 60.105(a)(13)(iii)].	None.
42	Fuel gas H2S content <= 0.1 gr/dscf (162 ppmvd) H2S. [40 CFR 60.104(a)(1)]	Other: Install an instrument to continuously monitor and record the concentration (dry basis) of H2S in fuel gase before being burned in any fuel gas combustion device in accordance with [40 CFR 60.105(4)(i)] through[40 CFR 60.105(a)(4)(iii)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously based on a 3hr rolling average, based on a 1hr block average. [40 CFR 60.105(e)(3)(ii)]	Submit a report: As per the approved schedule. Demonstrate initial compliance using the procedures and methods specified at [40 CFR 60.8] and [40 CFR 60.106(e)(1)]. Excess emissions shall be determined and reported as follows: All rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system under [40 CFR 60.105(a)(4)] exceeds 162 ppmvd (0.10 gr/dscf). [40 CFR 60.105(e)(3)(ii)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 FCCU Regenerator with In-Line Heater and Wet Gas Scrubber Control Device**
Operating Scenario: **OS1 E21- FCC Regenerator, PT4807, CD16 Wet Gas Scrubber - Normal Operations**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Feed rate to the FCCU must not exceed 75,000 barrels per calendar day. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	Catalyst circulation limited to 8,000,000 pounds per hour from preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. The current/voltage output of the monitor shall be compatible with the DAS. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	PM-10 (Total) <= 60 lb/hr. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	TSP <= 30 lb/hr based on 0.02 grains per standard cubic foot. [N.J.A.C. 7:27- 6.2(a)]	Other: Annually and prior to permit renewal based on the average of three department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
5	VOC (Total) <= 9.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	Benzene <= 0.64 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by stack test results prior to permit expiration. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO3 and H2SO4, as converted and expressed as H2SO4 <= 11.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	SO3 and H2SO4, as converted and expressed as H2SO4: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	SO3 and H2SO4, as converted and expressed as H2SO4: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	SO2 <= 39.3 lb/hr in the flue gas. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	SO2 <= 50 ppmvd @ 0% excess air measured as a 7-day rolling average. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by continuous emission monitoring system continuously, based on a 7 day rolling average. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
10	SO2 <= 39.3 lb/hr in the flue gas. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	SO2: Recordkeeping by strip chart, data acquisition (DAS) system, or other method approved by BTS continuously. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(e)]
11	SO2 <= 25 ppmvd @ 0% excess air measured as a 365-day rolling average. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by continuous emission monitoring system continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
12	CO <= 50 ppmvd corrected for 0% oxygen concentration in the flue gas or 34.4 lb/hr (whichever is more stringent). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The CEMS will have continuous data logger to convert ppm values to lb/hr emission rates. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
13	CO <= 34.4 lb/hr or 50 ppmvd corrected for 0% oxygen concentration in the flue gas (whichever is more stringent). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Hydrogen cyanide <= 75 lb/hr instantaneous max and 55.5 lb/hr average. [N.J.A.C. 7:27-22.16(a)]	Hydrogen cyanide: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen cyanide: Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	Nickel Emissions: shall be below reporting threshold of 0.0228 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
16	NOx (Total) <= 45 ppmvd @ 0% excess air or 50.9 lb/hr (whichever is more stringent). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The CEMS will have continuous data logger to convert ppm values to lb/hr emission rates. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
17	NOx (Total) <= 50.9 lb/hr or 45 ppmvd corrected to 0% oxygen concentration in the flue gas (whichever is more stringent). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
18	NOx (Total) <= 25 ppmvd @ 0% excess air measured as a 365-day rolling average. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 FCCU Regenerator with In-Line Heater and Wet Gas Scrubber Control Device**

Operating Scenario: **OS2 E22 - FCC In-Line Heater, PT4807, CD16 Wet Gas Scrubber - Natural Gas or Propane**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 102 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
2	In-Line Pre-Heater fuel use limited to Natural Gas and Propane with a Sulfur Content in Fuel <= 30 ppmv. [40 CFR 60.105(a)(4)(iv)]	None.	Other: Permittee shall maintain documentation that fuel meets a commercial-grade product specification for sulfur content of 30 ppmv or less.[40 CFR 60.107(e)].	None.
3	Combustion emissions from the in-line heater are included in the hourly emission rates listed in OS1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 FCCU Regenerator with In-Line Heater and Wet Gas Scrubber Control Device**

Operating Scenario: **OS3 E22 - FCC In-Line Heater, PT4807, CD16 Wet Gas Scrubber - RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 102 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Refinery Fuel Gas Usage <= 796 MMft^3/yr based on 8,760 hours of operation and a fuel heating value of 1,100 BTU/ft^3. [N.J.A.C. 7:27-22.16(a)]	Refinery Fuel Gas Usage: Monitored by calculations annually based on hours of operation and fuel burner rated capacity. [N.J.A.C. 7:27-22.16(o)]	Refinery Fuel Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
3	Combustion emissions from the in-line heater are included in the hourly emission rates listed in OS1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Hydrogen sulfide <= 0.1 gr/dscf (162 ppmvd) in the refinery fuel gas used in the In-Line Pre-Heater. [40 CFR 60.104(a)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 NHT Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 4.35 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 7.89 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 5.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 2.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 2.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual Gross Heat Input <= 433,620 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 NHT Heater**

Operating Scenario: **OS1 Process Heater- PtR B-1, PT4808, 49.5 MMBtu/Hr, Indirect Heat Exchanger combusting refinery fuel gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.02 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 1.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 1.21 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.51 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 10.89 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 72 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	Maximum Gross Heat Input <= 49.5 MMBTU/hr (HHV) after throttling E1204. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5 Process Heater-PtR B-104**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 2.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 6.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 2.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 2.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 2.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 2.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual Gross Heat Input <= 210,240 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U5 Process Heater-PtR B-104**
Operating Scenario: **OS1 Process Heater- PtR B-104, PT 6**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 8.4 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 24 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U6 Process Heater - CHD1 B401**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hexane (n-) <= 1.31 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 44.68 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 14.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 24.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 4.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 4.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Annual Gross Heat Input <= 1,489,200 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U6 Process Heater - CHD1 B401**
Operating Scenario: **OS1 E11 - Process Heater CHD B-401, PT7, Normal Operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.31 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 10.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 0.06 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 3.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 5.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 18.9 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	TSP <= 1.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum Gross Heat Input <= 170 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U7 Tail Gas Units**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	For additional requirements see GR1 & Table 44 of [40 CFR 63 subpart UUU]. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for Total Reduced Sulfur Compounds (TRS), H2S, CO and VOC emission limits as specified in the compliance plan for OS3 and OS4. NOTE: Total Reduced Sulfur Compounds means hydrogen sulfide (H2S), carbonyl sulfide (COS) and carbon disulfide (CS2). Testing must be conducted at worst-case permitted operating conditions to meet the applicable emission standards, without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.
4	Reduced Sulfur Compounds <= 15 tons/yr. This is also HAPs (Total) and includes hydrogen sulfide, carbon disulfide, and carbon oxysulfide. [N.J.A.C. 7:27-22.16(a)]	Reduced Sulfur Compounds: Monitored by continuous emission monitoring system continuously based on a 1 hour block average, based on a consecutive 12 month period (rolling 1 month basis) and used in conjunction with the stack gas flow calculation to obtain mass emission rates, and calculated annually. The monitor shall be equipped with integrating and data logging devices. [N.J.A.C. 7:27-22.16(o)]	Reduced Sulfur Compounds: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Records will be maintained on site in readily accessible computer memories for a minimum of five years after collection and shall be made available to representatives of the Department upon request. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 8.76 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	SO2 <= 10 tons/yr. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	Hydrogen sulfide <= 3.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by calculations annually . [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	CO <= 43.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
9	Carbon disulfide <= 15 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Carbon oxysulfide (Carbonyl sulfide) <= 15 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	O2 may be injected into the SRU gas stream at the permittee's discretion. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U7 Tail Gas Units**

Operating Scenario: **OS3 E701 - TGU 80 Tail Gas Unit, PT701- Normal Operation, OS4 E702 - TGU 81 Tail Gas Unit, PT702 - Normal Operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall not discharge from any Claus sulfur recovery plant any gasses into the atmosphere containing in excess of 300 ppm by volume of reduced sulfur compounds and 10 ppm by volume hydrogen sulfide (H2S), each calculated as ppm SO2 by volume (dry basis) at zero percent excess air. 40 CFR 63.1568(a)(1) and [40 CFR 60.104(a)(2)(ii)]	Other: OPTION 1: Install an instrument for continuously monitoring and recording the hourly average concentration of reduced sulfur and O2 emissions into the atmosphere. The reduced sulfur emissions shall be calculated as SO2 (dry basis, zero percent excess air). [40 CFR 60.105(a)(6)]. The instrument span values shall be set and performance evaluations performed as specified at [40 CFR 60.105(a)(6)(i) and (ii)]. OPTION 2: Install an instrument that uses an air or O2 dilution and oxidation system to convert the reduced sulfur to SO2 for continuously monitoring and recording the hourly average concentration (dry basis, zero percent excess air) of the resultant SO2. The monitor shall include an oxygen monitor for correcting the data for excess oxygen. [40 CFR 60.105(a)(7)] For reporting purposes, the SO2 exceedance level for this monitor is 250 ppm (dry basis, zero percent excess air). The instrument span values shall be set and performance evaluations performed as specified at [40 CFR 60.105(a)(7)(i) and (iii)].[40 CFR 60.105].	Other: Determine and record each 12-hour rolling average concentration of reduced sulfur (as SO2) as measured by the reduced sulfur continuous monitoring system. [40 CFR 60.105(e)(4)(ii)]. OR Determine and record each 12-hour rolling average concentration of SO2 as measured by the SO2 continuous monitoring system.[40 CFR 60.105(e)(4)(iii)].	Demonstrate compliance: As per the approved schedule. The owner or operator shall determine compliance with the SO2 and the H2S and reduced sulfur standards by conducting performance tests specified at [40 CFR 60.106(f)]. Periods of excess emissions shall be determined and reported as follows: All 12-hour periods during which the average concentration of reduced sulfur (as SO2) as measured by the reduced sulfur continuous monitoring system under [40 CFR 60.105(a)(6)] exceeds 300 ppm [40 CFR 60.105(e)(4)(ii)]. OR All 12-hour periods during which the average concentration of SO2 as measured by the SO2 continuous monitoring system under [40 CFR 60.105(a)(7)] exceeds 250 ppm (dry basis, zero percent excess air). [40 CFR 60.105(e)(4)(iii)]. Submit reports semiannually per. [40 CFR 60.7(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1568(a)(3)]	Other: Operate at all times according to the procedures in the OMMP.[40 CFR 63.1568(a)(3)].	Other: Keep a current copy of your OMMP onsite and available for inspection. Keep records to show continuous compliance with the procedures in your OMMP.[40 CFR 63.1576(e)].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance with the work practice standard by submitting the OMMP to your permitting authority as part of your notification of compliance status. [40 CFR 63.1568(b)(6)]. Demonstrate continuous compliance with the work practice standard by complying with the procedures in your OMMP. [40 CFR 63.1568(c)(2)] Submit semiannual reports as specified at. [40 CFR 63.1575]
3	The permittee can elect to send any startup or shutdown purge gases to a flare. [40 CFR 63.1568(a)(4)(ii)]	Other: On and after January 30, 2019, the flare must meet the requirements of [40 CFR 63.670]. Prior to January 30, 2019, the flare must meet the design and operating requirements in [40 CFR 63.11(b)] or the requirements of [40 CFR 63.670].[40 CFR 63.1568(a)(4)(ii)].	Other: Record the date, time, and duration of each startup and/or shutdown period, recording the periods when the affected source was subject to the standard applicable to startup and shutdown.[40 CFR 63.1576(a)(2)(i)].	None.
4	Reduced Sulfur Compounds <= 8 lb/hr calculated as SO2. [N.J.A.C. 7:27-22.16(a)]	Reduced Sulfur Compounds: Monitored by continuous emission monitoring system continuously. The monitor shall be equipped with integrating and data logging devices. [N.J.A.C. 7:27-22.16(o)]	Reduced Sulfur Compounds: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
5	Reduced Sulfur Compounds: The owner or operator shall not discharge or cause the discharge of any gases into the atmosphere containing in excess of 300 ppm by volume of reduced sulfur compounds calculated as ppm SO2 by volume (dry basis) at zero percent excess air. [40 CFR 60.104(a)(2)(ii)]	Reduced Sulfur Compounds: Monitored by stack emission testing prior to permit renewal. The owner/operator shall determine compliance with the reduced sulfur standards in 40 CFR 60.104(a)(ii) using the procedures specified at. [40 CFR 60.106(f)]	Reduced Sulfur Compounds: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Reduced Sulfur Compounds <= 8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Reduced Sulfur Compounds: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Reduced Sulfur Compounds: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
7	Hydrogen sulfide: The owner or operator shall not discharge or cause the discharge of any gasses into the atmosphere containing in excess of 10 ppm by volume of hydrogen sulfide (H2S), calculated as ppm SO2 by volume (dry basis) at zero percent excess air. [40 CFR 60.104(a)(2)(ii)]	Hydrogen sulfide: Monitored by stack emission testing prior to permit renewal. The owner/operator shall determine compliance with the reduced sulfur standards in 40 CFR 60.104(a)(ii) using the procedures specified at. [40 CFR 60.106(f)]	Hydrogen sulfide: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	Hydrogen sulfide <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
10	VOC (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
11	Carbon disulfide <= 8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Carbon oxysulfide (Carbonyl sulfide) <= 8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	SO2 <= 180 lb/hr. Maximum allowable emission rate in any 60-minute period. [N.J.A.C. 7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
14	SO2 <= 360 lb/hr. Maximum allowable emission rate for any instant. [N.J.A.C. 7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	SO2 <= 15,000 ppmv at standard condition. Maximum allowable emission limit for SO2. [N.J.A.C. 7:27- 7.2(c)1]	None.	None.	None.
16	Sulfur Compounds other than S02, S03 and H2S04 <= 13 lb/hr. Maximum allowable emission rate for sulfur in the sulfur compounds in any 60-minute period and at any instant. [N.J.A.C. 7:27-7.2(i)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
17	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
18	Total tail gas unit off-gas limit <= 368 msch/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by flue gas flow rate instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each half hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U8 E2 --- Process Heater - Crude Unit 7 F-1A Atmospheric Heater, PT10**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 2.45 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 37.2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 7.45 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 11.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 7.36 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 8.23 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Annual Gross Heat Input <= 744,600 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U8 E2 --- Process Heater - Crude Unit 7 F-1A Atmospheric Heater, PT10**
Operating Scenario: **OS1 E2 - Process Heater - Crude Unit 7 F-1A atmospheric heater, PT10**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.56 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.1 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule : See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 8.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 1.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 2.58 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1.88 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 1.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 14.2 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 107 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum Gross Heat Input <= 85 MMBTU/hr (HHV) after throttling E2. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U9 Process Heater - Crude Unit 7 F-1 Atmospheric Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 1.22 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hexane (n-) <= 1.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 33.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 15.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 17.52 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 3.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 20.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Annual Gross Heat Input <= 1,222,020 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U9 Process Heater - Crude Unit 7 F-1 Atmospheric Heater**

Operating Scenario: **OS1 Process Heater - Normal Operation with Air Pre-Heater Operating (PT11),**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.279 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 7.67 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.055 lb/MMBTU . [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously based on a 365-day rolling average. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.2 lb/MMBTU . [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. The owner or operator shall calculate the average NOx emission rate using the data from continuous emission monitoring system for the NOx concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions: i. Between May 1 and September 30, over each calendar day; and ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day. [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-19.18(a)5]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 3.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 4.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 17.5 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	TSP <= 0.698 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input <= 139.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U9 Process Heater - Crude Unit 7 F-1 Atmospheric Heater**

Operating Scenario: **OS2 Process Heater - Emergency Operation during Air Pre-Heater Malfunction (PT12). No CEMS in PT12.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.279 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 7.67 lb/hr . [N.J.A.C. 7:27-22.16(a)]	Other: During periods of air preheater malfunction, flue gas is routed through emission point PT12 which is not equipped with a NOx CEMS[N.J.A.C. 7:27-22.16(o)].	Other: Record the duration of each malfunction event.[N.J.A.C. 7:27-22.16(o)].	None.
5	NOx (Total) <= 0.055 lb/MMBTU . [N.J.A.C. 7:27-22.16(a)]	Other: During periods of air preheater malfunction, flue gas is routed through emission point PT12 which is not equipped with a NOx CEMS[N.J.A.C. 7:27-22.16(o)].	Other: Record the duration of each malfunction event.[N.J.A.C. 7:27-22.16(o)].	None.
6	NOx (Total) <= 0.2 lb/MMBTU . [N.J.A.C. 7:27-19.7(h)]	Other: During periods of air preheater malfunction, flue gas is routed through emission point PT12 which is not equipped with a NOx CEMS[N.J.A.C. 7:27-22.16(o)].	Other: Record the duration of each malfunction event.[N.J.A.C. 7:27-22.16(o)].	None.
7	CO <= 3.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 4.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 17.5 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	TSP <= 0.698 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input <= 139.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U10 Process Heater - Crude Unit 7 F-2, Crude Unit 7 Vacuum Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 1.52 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hexane (n-) <= 1.34 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 41.68 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 18.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 21.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 3.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Annual Gross Heat Input <= 1,515,480 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U10 Process Heater - Crude Unit 7 F-2, Crude Unit 7 Vacuum Heater**
Operating Scenario: **OS1 E4 - Process Heater - Crude Unit 7 Vacuum heater F-2, PT13**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.347 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.305 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 9.52 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. The owner or operator shall calculate the average NOx emission rate using the data from continuous emission monitoring system for the NOx concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions: i. Between May 1 and September 30, over each calendar day; and ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day. [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-19.18(a)5]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.055 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously based on a 365-day rolling average. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 4.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 5.71 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 19 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	TSP <= 0.895 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input <= 173 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Process Heater, Crude Unit 6**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 3.95 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hexane (n-) <= 1.36 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 96.36 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 30.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 23.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 7.89 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 7.89 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Annual Gross Heat Input <= 1,541,760 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U11 Process Heater, Crude Unit 6**
Operating Scenario: **OS1 CU #6 Process Heater**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.28 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.31 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 0.125 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	SO2 <= 5.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 19.2 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	TSP <= 1.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum Gross Heat Input <= 176 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U12 Coker Unit Heaters, A & B**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 and Table 6 of 40 CFR 63 Subpart CC for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1 and OS2. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 2.19 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 95.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 6.57 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 47.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 5.48 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 36.135 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	The permittee must comply with applicable requirements 10 through 13 no later than January 30, 2019. Table 11 of [40 CFR 63.657]	None.	None.	Submit notification: As per the approved schedule. Submit a Notification of Compliance Status report within 150 days after the compliance date specified in 40 CFR 63.640(h). [40 CFR 63.655(f)]. The report must identify the source as new or existing, and whether monitoring will be conducted as specified in 40 CFR 63.657(b) or (c). [40 CFR 63.655(f)(1)(viii)]
10	The permittee shall depressure each coke drum to a closed blowdown system until the coke drum vessel temperature measured at the top of the coke drum meets the following limit, prior to venting, draining or deheading the coke drum at the end of the cooling cycle: An average vessel temperature of 220 deg F determined on a rolling 60-event average. [40 CFR 63.657(a)(1)(ii)]. Temperature readings after initiating steps to isolate the coke drum from the closed blowdown system just prior to venting, draining, or deheading the coke drum shall not be used in determining the average coke drum vessel temperature for the purpose of compliance with the requirements in [40 CFR 63.657(a)]. [40 CFR 63.657(d)]	Other: Install, operate, calibrate, and maintain a continuous parameter monitoring system to measure the coke drum vessel temperature (at the top of the coke drum or in the overhead line as near as practical to the coke drum) according to the requirements specified in Table 13 of [40 CFR Subpart CC]. [40 CFR 63.657(c)]. Determine the coke drum vessel temperature on a 5-minute rolling average basis while the coke drum is vented to the closed blowdown system. Use the last complete 5-minute rolling average temperature just prior to initiating steps to isolate the coke drum prior to venting, draining or deheading to demonstrate compliance with [40 CFR 63.657(a)(1)(ii)].[40 CFR 63.657(d)].	Other: Keep records off the average temperature for the 5-minute period prior to venting to the atmosphere, draining, or deheading the coke drum for each cooling cycle for each coke drum. [40 CFR 63.655(i)(7)(i)]. Record each 60-cycle rolling average temperature, considering all coke drum venting events in the existing affected source. [40 CFR 63.655(i)(7)(ii)]. Keep copies of all applicable reports and records for at least 5 years.[40 CFR 63.655(i)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.655(g)(12)] is collected. The first 6-month period shall begin on the date the Notification of Compliance Status report is required to be submitted. A Periodic Report is not required if none of the events identified at [40 CFR 63.655(g)(12)] occurred during the 6-month. [40 CFR 63.655(g)]. Report any 60-event average that exceeded the 220 Deg F limit. [40 CFR 63.655(g)(12)(i)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	In lieu of complying with Reference #10 above: The permittee shall depressure each coke drum to a closed blowdown system until the coke drum vessel pressure measured at the top of the coke drum meets the following limit, prior to venting, draining or deheading the coke drum at the end of the cooling cycle: (i) An average vessel pressure of 2 psig determined on a rolling 60-event average. [40 CFR 63.657(a)(1)(i). Pressure readings after initiating steps to isolate the coke drum from the closed blowdown system just prior to venting, draining, or deheading the coke drum shall not be used in determining the average coke drum vessel temperature for the purpose of compliance with the requirements in [40 CFR 63.657(a)]. [40 CFR 63.657(d)]	Other: Install, operate, calibrate, and maintain a monitoring system to determine the coke drum vessel pressure (at the top of the coke drum or in the overhead line as near as practical to the coke drum) according to the requirements specified at 40 CFR 63.657(a)(1) through 5. [40 CFR 63.657(b)]. Determine the coke drum vessel pressure on a 5-minute rolling average basis while the coke drum is vented to the closed blowdown system. Use the last complete 5-minute rolling average pressure just prior to initiating steps to isolate the coke drum prior to venting, draining or deheading to demonstrate compliance with [40 CFR 63.657(a)(1)(i)].[40 CFR 63.657(d)].	Other: Keep records off the average pressure for the 5-minute period prior to venting to the atmosphere, draining, or deheading the coke drum for each cooling cycle for each coke drum. [40 CFR 63.655(i)(7)(i)]. Record each 60-cycle rolling average pressure, considering all coke drum venting events in the existing affected source. [40 CFR 63.655(i)(7)(ii)]. Keep copies of all applicable reports and records for at least 5 years.[40 CFR 63.655(i)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.655(g)(12)] is collected. The first 6-month period shall begin on the date the Notification of Compliance Status report is required to be submitted. A Periodic Report is not required if none of the events identified at [40 CFR 63.655(g)(12)] occurred during the 6-month. [40 CFR 63.655(g)]. Report any 60-event average that exceeded the 2 psig limit. [40 CFR 63.655(g)(12)(i)]
12	The permittee using the "water overflow" method of coke cooling must hardpipe the overflow water or otherwise prevent exposure of the overflow water to the atmosphere when transferring the overflow water to the overflow water storage tank whenever the coke drum vessel temperature exceeds 220 deg F. The overflow water storage tank may be an open or fixed-roof tank provided that a submerged fill pipe is used to transfer overflow water to the tank. [40 CFR 63.657(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The permittee may partially drain a coke drum prior to achieving the applicable limits in [40 CFR 63.657(a)] in order to double-quench a coke drum that did not cool adequately using the normal cooling process steps, provided that a continuous parameter monitoring system is installed to measure the drain water temperature, and the drain water temperature is maintained below 210 deg F during the partial drain associated with the double-quench event. [40 CFR 63.657(f)]	Other: Install, operate, calibrate, and maintain a continuous parameter monitoring system to measure the coke drum vessel temperature (at the top of the coke drum or in the overhead line as near as practical to the coke drum) according to the requirements specified in Table 13 of [40 CFR Subpart CC].[40 CFR 63.657(f)(1)].	Other: For double-quench cooling cycles, keep the following records: The date, time and duration of each pre-vent draining event. The temperature of the coke drum vessel for the 15 minute period prior to the pre-vent draining. The drain water temperature at 1-minute intervals from the start of pre-vent draining to the complete closure of the drain valve.[40 CFR 63.655(i)(7)(iii)].	Submit a report: As per the approved schedule. Submit Periodic Reports no later than 60 days after the end of each 6-month period when any of the information specified at [40 CFR 63.655(g)(12)] is collected. The first 6-month period shall begin on the date the Notification of Compliance Status report is required to be submitted. A Periodic Report is not required if none of the events identified at [40 CFR 63.655(g)(12)] occurred during the 6-month. [40 CFR 63.655(g)]. Report double quenching event exceedances as specified at [40 CFR 63.655(g)(12)(iii)] and. [40 CFR 63.655(g)(12)(iv)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U12 Coker Unit Heaters, A & B**

Operating Scenario: **OS1 E5 - Process Heater - Coker A, PT15 - Normal Operation, OS2 E6 - Process Heater - Coker B, PT16 - Normal Operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 8.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. The owner or operator shall calculate the average NOx emission rate using the data from continuous emission monitoring system for the NOx concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions: i. Between May 1 and September 30, over each calendar day; and ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day. [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-19.18(a)5]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NOx (Total) <= 0.065 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously based on a 365-day rolling average. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 5.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 4.125 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 16.8 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	TSP <= 0.625 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 125 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
12	Annual Gross Heat Input <= 1,095,000 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U12 Coker Unit Heaters, A & B**

Operating Scenario: **OS3 E5 - Process Heater - Coker A, PT15 - Decoking, OS4 E6 - Process Heater - Coker B, PT16 - Decoking**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. The owner or operator shall calculate the average NOx emission rate using the data from continuous emission monitoring system for the NOx concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions: i. Between May 1 and September 30, over each calendar day; and ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day. [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-19.18(a)5]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
5	CO <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	SO2 <= 5.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 4.125 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 16.8 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	TSP <= 0.625 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 125 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
11	Annual Gross Heat Input <= 180,000 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
12	Hours of Operation <= 1,440 hours for Decoking per year. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. For each furnace decoke, the permittee shall record the following information: i) Date and time decoke started. ii) Date and time decoke ended. iii) Total duration of decoke (hours). [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13 Process Heater - Furfural 1 Heaters (2)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 1.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 70.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 14.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 111 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 2.09 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 2.09 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13 Process Heater - Furfural 1 Heaters (2)**

Operating Scenario: **OS1 E16 - Furfural Unit # 1 BB-1 Heater, PT17 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 11 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.15 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	CO <= 2.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	SO2 <= 18.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 14 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 70 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Annual Gross Heat Input <= 613,200 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U13 Process Heater - Furfural 1 Heaters (2)**
Operating Scenario: **OS2 E17 - Furfural Unit # 1 BB-2 Heater, PT18 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.075 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.875 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 6.65 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 8.5 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 25 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
10	Annual Gross Heat Input <= 219,000 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U14 Process Heater - Furfural 2B101 Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 0.38 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 7.39 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 3.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 3.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Annual Gross Heat Input <= 604,440 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U14 Process Heater - Furfural 2B101 Heater**
Operating Scenario: **OS1 E18 - Furfural Unit # 2 B-101Heater, PT19 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.041 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule : See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 2.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 2.51 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 1.69 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.72 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.72 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 12.9 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 69 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Process Heaters (2) - Propane Deasphalting Unit**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS2. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 0.907 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 60 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 10.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 80.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.52 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1.52 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Process Heaters (2) - Propane Deasphalting Unit**
Operating Scenario: **OS1 E19 - PDA BB-1 Heater, PT20 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.027 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 2.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.045 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.045 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 5.4 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
10	Annual Gross Heat Input <= 78,840 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Process Heaters (2) - Propane Deasphalting Unit**
Operating Scenario: **OS2 E20 - PDA BB-2 Heater, PT21 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	CO <= 2.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	SO2 <= 12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 12 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 60 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Annual Gross Heat Input <= 525,600 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U16 Process Heater - MLDW**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 21.59 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 3.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 2.72 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual Gross Heat Input <= 431,868 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U16 Process Heater - MLDW**

Operating Scenario: **OS1 E12 - Process Heater - MLDW Heater, PT22 - normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.1 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 4.93 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 11 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 49.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U17 process heater - CHD2**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.438 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 10 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 1.76 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.438 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.438 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual Gross Heat Input <= 157,680 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U17 process heater - CHD2**

Operating Scenario: **OS1 E13 - Process Heater - CHD2 Heater, PT23 - normal operation.**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 2.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 7.6 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 18 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U18 Hydrogen Plant Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Stack testing requirements for hydrogen plant heater E14 removed. (Since the construction of the continuous reformer, the CCR unit is now the primary source of H2, and the H2 plant heater E14 operates on standby with minimal fired duty and throughput). [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 1.97 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 48.18 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 11.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.71 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1.71 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Annual Gross Heat Input <= 850,596 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U18 Hydrogen Plant Heater**
Operating Scenario: **OS1 Normal Operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 11 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.115 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 2.71 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 2.08 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.39 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.39 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 14.85 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 97.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS30 and OS31. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: The stack test must be conducted 60 days of the protocol approval or within 180 days of bringing a boiler onsite, whichever comes later. If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for TSP and PM10 as specified in the compliance plan for OS1, OS2 and OS3. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx, CO and PM10 as specified in the compliance plan for OS4. The permittee shall provide Emission Management section (EMS) with the turbine load performance curve with the protocol. The duct burner shall be in operation during stack testing. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) <= 108.75 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 104 tons/yr (any period of 365 consecutive days). This limit is effective January 1, 2021 after the installation of dry low-NOx burners on the gas turbine generator (GTG). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
7	Hexane (n-) <= 11.22 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Cadmium Emissions <= 0.0069 tons/yr (13.71 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Lead Emissions <= 0.003 tons/yr (6.24 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Acrolein <= 0.013 tons/yr (25.23 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Formaldehyde <= 1.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Polycyclic organic matter <= 0.004 tons/yr (8.67 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	NOx (Total) <= 428.85 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
14	CO <= 278.7 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
15	SO2 <= 772.48 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	TSP <= 136.4 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
17	PM-10 (Total) <= 136.4 tons/yr (any period of 365 consecutive days). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations daily. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage daily. Using the recorded fuel usage (refinery fuel gas and #2 fuel oil) and heating value of the fuel for each combustion device, calculate the heating value for the previous day. Emissions for any period of 365 consecutive days are computed by adding the emissions for the previous day to emissions for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**

Operating Scenario: **OS1 Boiler 2A - Combusting NG, RFG and/or No.2 Fuel Oil, OS2 Boiler 2B - Combusting NG, RFG and/or No.2 Fuel Oil, OS3 Boiler 2C - Combusting NG, RFG and/or No.2 Fuel Oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	No.2 fuel oil shall only be combusted during periods of natural gas curtailment or supply disruptions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 9.7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	VOC (Total) <= 50 ppmdv @ 7% O2. [N.J.A.C. 7:27-16.8(b)1]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	Hexane (n-) <= 0.85 lb/hr (3.74 tpy). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Lead Emissions <= 0.000237 lb/hr (2.08 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Cadmium Emissions <= 0.00052 lb/hr (4.57 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 19.4 lb/hr or 0.04 lb/MMBtu, when firing RFG. NOx (Total) <= 48.4 lb/hr or 0.1 lb/MMBtu, when firing No.2 FO. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. Since the predominant fuel in this boiler is always RFG, the permittee is not required to conduct a stack test for 100% fuel oil combustion. The stack test should be conducted at normal operating conditions. When firing a combination of RFG and No.2 FO, the emission limit shall be calculated based upon the heating value and quantity of each fuel combusted during the stack test. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	NOx (Total) <= 19.4 lb/hr or 0.04 lb/MMBtu, when using RFG as fuel. NOx (Total) <= 48.4 lb/hr or 0.1 lb/MMBtu, when using No. 2 oil as fuel. When using a combination of RFG and No.2 FO, the emission rates shall be determined based upon the heating value and quantity of each fuel combusted. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. CEMS shall also continuously monitor fuel flow, heating value of fuel and calculate emissions in lb/hr and lb/MMBTU. The continuous monitors shall conform to EPA performance specifications in 40 CFR 60, Appendix B. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 18.9 lb/hr or 0.039 lb/MMBtu. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 100 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	CO <= 18.9 lb/hr or 0.039 lb/MMBtu. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. CEMS shall also continuously monitor fuel flow, heating value of fuel, fuel flow, and calculate emissions in lb/hr or lb/MMBTU. The CEMS shall conform to EPA performance specifications in 40 CFR 60, Appendix B. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
13	SO2 <= 12.2 lb/hr when using RFG as fuel. SO2 <= 96.8 when using No. 2 oil as fuel. When using a combination of RFG and No.2 FO, the emission rates shall be determined based upon the heating value and quantity of each fuel combusted. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	TSP <= 9.7 lb/hr when firing RFG. TSP <= 24.2 lb/hr when firing No.2 FO. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Since the predominant fuel in this boiler is always RFG, the permittee is not required to conduct a stack test for 100% fuel oil combustion. The stack test should be conducted at normal operating conditions. When firing a combination of RFG and No.2 FO, the emission limit shall be calculated based upon the heating value and quantity of each fuel combusted during the stack test. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(e)]
15	PM-10 (Total) <= 9.7 lb/hr when firing RFG PM-10 (Total) <= 24.2 lb/hr when firing No.2 FO. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. Since the predominant fuel in this boiler is always RFG, the permittee is not required to conduct a stack test for 100% fuel oil combustion. The stack test should be conducted at normal operating conditions. When firing a combination of RFG and No. 2 fuel oil, the emission limit shall be calculated based upon the heating value and quantity of each fuel combusted during the stack test. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
16	Particulate Emissions <= 48.4 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
17	Maximum Gross Heat Input <= 484 MMBTU/hr (HHV) and 4,239,840 MMBtu/yr. This limit is effective until December 30, 2020. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly and annual heat input in MMBtu/hr.[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation and annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Maximum Gross Heat Input <= 484 MMBTU/hr (HHV) and 4,184,360 MMBtu/yr. This limit shall be effective starting January 1, 2021. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly and annual heat input in MMBtu/hr.[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation and annually. [N.J.A.C. 7:27-22.16(o)]	None.
19	No 2 FO sulfur content <= 500 ppmw until June 30, 2016, and 15 ppmw thereafter. [N.J.A.C. 7:27- 9.2(b)]	Monitored by bills of lading showing fuel sulfur content or laboratory test per delivery.[N.J.A.C. 7:27-22.16(a)].	Recordkeeping by of lading or laboratory test results showing fuel sulfur content per delivery.[N.J.A.C. 7:27-22.16(a)].	None.
20	Total No.2 FO usage <= 1.7 mmgal/yr. (This number limits fuel oil combustion to 500 hours per yr). If the 1.7 mmgal/yr limit is exceeded, the permittee shall install and operate a continuous opacity monitor (COM) within 180 days of the exceedance. The total No.2 FO fired in boilers 2A, 2B and 2C combined shall not exceed 5000 gal/hr (daily average). [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously when combusting fuel oil. This system shall be accurate to within 5%. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by time that fuel oil is burned. The record shall indicate the date, start time, end time and the amount of fuel oil burned.[N.J.A.C. 7:27-22.16(o)].	None.
21	The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by maintaining fuel records as described in 40 CFR 60.49b(r). [40 CFR 60.42b(j)]	None.	Other: Keep fuel receipts from the fuel supplier that certify that the oil meets the definition of very low sulfur oil as defined in 40 CFR 60.41b and the applicable sulfur limit. [40 CFR 60.49b(r)(1)] All records shall be maintained for a period of 2 years following the date of such record.[40 CFR 60.49b(o)].	Submit a report: As per the approved schedule. Reports shall certify that only very low sulfur oil containing insignificant amounts of sulfur were combusted during the reporting period. [40 CFR 60.49b(r)(1)]
22	Opacity <= 20 % except for one-six minute period per hour of not more than 27 percent opacity. Opacity standards apply at all times except during periods of startup, shutdown, or malfunction. [40 CFR 60.43b(f)] and. [40 CFR 60.43b(g)]	Other: The permittee who elects not to use a COMS shall conduct a performance test using Method 9 at 40 CFR 60. Appendix A to Part 60, and the procedures in 40 CFR 60.11 to demonstrate compliance within 45 days of discontinuing the use of an existing COMS. [40 CFR 60.48b(a)]. Subsequent tests shall comply with either paragraphs 40 CFR 60.48b(a)(1), (a)(2), or (a)(3) of this section.[40 CFR 60.48b(a)(1)].	Opacity: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously Maintain records according to the requirements specified in paragraphs 40 CFR 60.49(b)(f)(1) through (3), as applicable to the visible emissions monitoring method used. [40 CFR 60.48b(f)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	Submit a report: As per the approved schedule. Reports of excess emissions shall be submitted each 6 month period and be postmarked by the 30th day following the 6 month period. [40 CFR 60.49b(h)] and. [40 CFR 60.49b(w)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The permittee previously installed COMS so the performance and subsequent monitoring requirements have been met. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain all relevant data to demonstrate compliance with the initial performance test and subsequent monitoring requirements.[N.J.A.C. 7:27-22.16(o)].	None.
24	NOx (Total) <= 0.2 lb/MMBTU expressed as NO2. [40 CFR 60.44b(a)(1)(ii)]. Compliance is determined on a 30-day rolling average basis. [40 CFR 60.44b(i)]. Nitrogen oxide emission limits apply at all times including periods of startup, shutdown, or malfunction. [(40 CFR 60.44b(h)]. [40 CFR 60.44b(h)]	Other: Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 emissions discharged to the atmosphere and record the output of the system as specified at 40 CFR 63.48b(b)(1), 40 CFR 63.48b(c), (d), (e) and (f). The permittee shall determine compliance with the NOx standards on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.[40 CFR 60.46b(e)(3)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)]. The 1-hour average NOx emission rates measured by the continuous NOx monitor and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)]. For each steam generating unit operating day, maintain records of all information stipulated in [40 CFR 60.49b(g)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	Submit a report: As per the approved schedule. Reports of excess emissions and all information recorded under 40 CFR 60.49b(g) shall be submitted each 6 month period and be postmarked by the 30th day following the 6 month period. [40 CFR 49b(h)] and. [40 CFR 60.49b(w)]
25	The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR 60.49b(d)(1)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily [40 CFR 60.49b(d)]. All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator shall calculate the annual capacity factor individually for gas and oil. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]	Monitored by calculations each month during operation. [40 CFR 60.49b(d)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation [40 CFR 60.49b(d)(1)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**
Operating Scenario: **OS4 GTG/HRSG - Combusting NG or RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 Ref. #'s 4 through 6 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Adjust the combustion process according to the manufacturer's recommended procedures and maintenance schedule. [N.J.A.C.7:27-19.16(g)] An exceedance of an emission limit that occurs during an adjustment of the combustion process is not a violation if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under this subchapter or under an operating permit issued pursuant to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-19.16(f)]	None.	Other: Retain the following records for each adjustment for at least five years: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentrations of NOx, CO and O2, measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment.[N.J.A.C. 7:27-19.16(h)].	None.
3	VOC (Total) <= 15.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	Acrolein <= 0.003 lb/hr (23.23 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Formaldehyde <= 0.32 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Polycyclic organic matter <= 0.001 lb/hr (8.67 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	NOx (Total) <= 1.3 lb of NOx per MWh. [N.J.A.C. 7:27-19.5(d)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	NOx (Total) <= 98.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The continuous emission monitors shall conform to EPA performance specifications in 40 CFR 60, Appendix B. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 0.064 lb/MMBTU or 41.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs . [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs . [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	CO <= 0.064 lb/MMBTU or 41.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The continuous emission monitors shall conform to EPA performance specifications in 40 CFR 60, Appendix B. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
13	SO2 <= 0.025 lb/MMBTU or 16.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.005 lb/MMBTU or 3.2 llb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.005 lb/MMBTU or 3.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Maximum Gross Heat Input <= 715 MMBTU/hr (HHV) and 6,263,400 MMBtu/yr. The 715 MMBtu/hr consists of 450 MMBtu/hr for the GTG and 265 MMBtu/hr for the HRSG (duct burner). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly and annual heat input in MMBtu/hr.[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation and annually. [N.J.A.C. 7:27-22.16(o)]	None.
17	The water injection system shall be operating at all times that the unit is combusting fuel except for start-up. The water injection system is not required after the installation of dry low NOx burners in December 31, 2020. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	The permittee shall install a dry low NOx burner system in the gas turbine generator by December 31, 2020. [N.J.A.C. 7:27-17.17(a)2]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep the manufacturer's certification to show that the dry low NOx burners were installed on the gas turbine generator. [N.J.A.C. 7:27-22.16(o)]	None.
19	The combustion turbine shall not operate without the duct burner operating. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	No owner or operator shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen on a dry basis, or burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [40 CFR 60.333]	Other: See GR2 Ref.# 4.[N.J.A.C. 7:27-22.16(o)].	Other: See GR2 Ref.# 4.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See GR2 Ref.# 4. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	NOx (Total) <= 0.2 lb/MMBTU expressed as NO2. [40 CFR 60.44b(a)(4)(i)]. Compliance is determined on a 30-day rolling average basis. [40 CFR 60.44b(i)]. Nitrogen oxide emission limits apply at all times including periods of startup, shutdown, or malfunction. [(40 CFR 60.44b(h)]. [40 CFR 60.44b(h)]	Other: Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 emissions discharged to the atmosphere and record the output of the system as specified at 40 CFR 63.48b(b)(1), 40 CFR 63.48b(c), (d), (e) and (f). The permittee shall determine compliance with the NOx standards on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.[40 CFR 60.46b(e)(3)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)]. The 1-hour average NOx emission rates measured by the continuous NOx monitor and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)]. For each steam generating unit operating day, maintain records of all information stipulated in [40 CFR 60.49b(g)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	Submit a report: As per the approved schedule. Reports of excess emissions and all information recorded under 40 CFR 60.49b(g) shall be submitted each 6 month period and be postmarked by the 30th day following the 6 month period. [40 CFR 49b(h)] and. [40 CFR 60.49b(w)]
22	The owner or operator of an affected facility shall record and maintain records of the amount of fuel combusted during each day. [40 CFR 60.49b(d)(1)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily [40 CFR 60.49b(d)]. All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.
23	The owner or operator shall calculate the annual capacity factor for gas. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]	Monitored by calculations each month during operation. [40 CFR 60.49b(d)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation [40 CFR 60.49b(d)(1)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**

Operating Scenario: **OS10 Start-up and Shut-down of Boiler 2A - Combusting NG or RFG, OS11 Start-up and Shut-down of Boiler 2B - Combusting NG or RFG, OS12 Start-up and Shut-down of Boiler 2C - Combusting NG or RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 Ref. #'s 4 through 6 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Boiler start-up shall be defined as the period of time from initiation of combustion operation until the unit reaches a steady state operating condition. This period shall not exceed 270 minutes per occurrence. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, time of initiation of combustion operation, time the boiler reaches steady state operation, and start-up period time in minutes. [N.J.A.C. 7:27-22.16(o)]	None.
3	Boiler shut-down shall be defined as the period of time from the initial lowering of combustion output for the purpose of taking the boiler off-line to the cessation of combustion operation. This period shall not exceed 120 minutes per occurrence. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, time of initial lowering of combustion output, time of cessation of combustion operation, and shut-down period time in minutes. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 50 ppmdv @ 7% O2. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
5	CO <= 100 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
6	Particulate Emissions <= 48.4 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
7	Maximum Gross Heat Input <= 484 MMBTU/hr and 4,239,840 MMBtu/yr. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly and annual heat input in MMBtu/hr.[N.J.A.C. 7:27-22.16(e)].	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation and annually. [N.J.A.C. 7:27-22.16(e)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	NOx (Total) <= 0.2 lb/MMBTU expressed as NO2. [40 CFR 60.44b(a)(4)(i)]. Compliance is determined on a 30-day rolling average basis. [40 CFR 60.44b(i)]. Nitrogen oxide emission limits apply at all times including periods of startup, shutdown, or malfunction. [(40 CFR 60.44b(h)]. [40 CFR 60.44b(h)]	Other: Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 emissions discharged to the atmosphere and record the output of the system as specified at 40 CFR 63.48b(b)(1), 40 CFR 63.48b(c), (d), (e) and (f). The permittee shall determine compliance with the NOx standards on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.[40 CFR 60.46b(e)(3)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)]. The 1-hour average NOx emission rates measured by the continuous NOx monitor and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)]. For each steam generating unit operating day, maintain records of all information stipulated in [40 CFR 60.49b(g)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	Submit a report: As per the approved schedule. Reports of excess emissions and all information recorded under 40 CFR 60.49b(g) shall be submitted each 6 month period and be postmarked by the 30th day following the 6 month period. [40 CFR 49b(h)] and. [40 CFR 60.49b(w)]
9	The owner or operator of an affected facility shall record and maintain records of the amount of fuel combusted during each day. [40 CFR 60.49b(d)(1)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily [40 CFR 60.49b(d)]. All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.
10	The owner or operator shall calculate the annual capacity factor for gas. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]	Monitored by calculations each month during operation. [40 CFR 60.49b(d)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation [40 CFR 60.49b(d)(1)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**

Operating Scenario: **OS13 Start-up, Shut-down, and Transfer of GTG/HRSG Combusting NG or RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 Ref. #'s 4 through 6 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Combustion turbine and duct burner start-up shall be defined as the period of time from initiation of combustion operation until the unit reaches a steady state operating condition. This period shall not exceed 120 minutes per occurrence. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, time of initiation of combustion operation, time the combustion turbine reaches steady state operation and the start-up period time in minutes. [N.J.A.C. 7:27-22.16(o)]	None.
3	Combustion turbine and duct burner shut-down shall be defined as the period of time from the initial lowering of combustion output for the purpose of taking the boiler off-line to the cessation of combustion operation. This period shall not exceed 120 minutes per occurrence. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Manually log the date, time of initial lowering of combustion output, time of cessation of combustion operation and the shut-down period time in minutes. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	None.	None.
5	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	None.	None.	None.
6	Maximum Gross Heat Input <= 715 MMBTU/hr (HHV) and 6,263,400 MMBtu/yr. The 715 MMBtu/hr consists of 450 MMBtu/hr for the GTG and 265 MMBtu/hr for the HRSG (duct burner). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly and annual heat input in MMBtu/hr.[N.J.A.C. 7:27-22.16(o)].	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation and annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	No owner or operator shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen on a dry basis, or burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [40 CFR 60.333]	Other: See GR2 Ref.#4.[N.J.A.C. 7:27-22.16(o)].	Other: See GR2 Ref.#4.[N.J.A.C. 7:27-22.16(o)].	Other (provide description): Other. See GR2 Ref.#4. [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 0.2 lb/MMBTU expressed as NO2. [40 CFR 60.44b(a)(4)(i)]. Compliance is determined on a 30-day rolling average basis. [40 CFR 60.44b(i)]. Nitrogen oxide emission limits apply at all times including periods of startup, shutdown, or malfunction. [(40 CFR 60.44b(h)]. [40 CFR 60.44b(h)]	Other: Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 emissions discharged to the atmosphere and record the output of the system as specified at 40 CFR 63.48b(b)(1), 40 CFR 63.48b(c), (d), (e) and (f). The permittee shall determine compliance with the NOx standards on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.[40 CFR 60.46b(e)(3)].	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The CEMS shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. [40 CFR 60.48b(c)]. The 1-hour average NOx emission rates measured by the continuous NOx monitor and required under 40 CFR 60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 CFR 60.44b. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2). [40 CFR 60.48b(d)]. For each steam generating unit operating day, maintain records of all information stipulated in [40 CFR 60.49b(g)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	Submit a report: As per the approved schedule. Reports of excess emissions and all information recorded under 40 CFR 60.49b(g) shall be submitted each 6 month period and be postmarked by the 30th day following the 6 month period. [40 CFR 49b(h)] and. [40 CFR 60.49b(w)]
9	The owner or operator of an affected facility shall record and maintain records of the amount of fuel combusted during each day. [40 CFR 60.49b(d)(1)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily [40 CFR 60.49b(d)]. All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator shall calculate the annual capacity factor for gas. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. [40 CFR 60.49b(d)(1)]	Monitored by calculations each month during operation. [40 CFR 60.49b(d)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation [40 CFR 60.49b(d)(1)] All records shall be maintained for a period of 2 years following the date of such record. [40 CFR 60.49b(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U20 Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers**

Operating Scenario: **OS30 Utility Plant: Package Boiler 3A - Combusting NG or RFG , OS31 Utility Plant: Package Boiler 3B - Combusting NG or RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.69 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmdv @ 7% O2. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
4	NOx (Total) <= 0.055 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by stack emission testing once initially (for each boiler brought on site), based on the average of three Department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	NOx (Total): Recordkeeping by stack test results at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule : See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 4.95 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by stack emission testing once initially (for each boiler brought on site), based on the average of three Department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	NOx (Total): Recordkeeping by stack test results at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 0.1 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)2]	Other: Monitored by stack emission testing once initially (for each boiler brought on site), based on the average of three Department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	NOx (Total): Recordkeeping by stack test results at the approved frequency. [N.J.A.C. 7:27-19.18(a)5]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 3.71 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by stack emission testing once initially (for each boiler brought on site), based on the average of three Department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	CO: Recordkeeping by stack test results at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	CO <= 100 ppmdv @ 7% O2. [N.J.A.C. 7:27-16.8(b)2]	Other: Monitored by stack emission testing once initially (for each boiler brought on site), based on the average of three Department validated stack test runs.[N.J.A.C. 7:27-22.16(o)].	CO: Recordkeeping by stack test results at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	SO2 <= 1.03 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 1.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 1.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Particulate Emissions <= 14.5 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
13	Maximum Gross Heat Input <= 90 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
14	Natural gas and/or refinery fuel gas usage during any consecutive 12-month period shall not exceed 265,000,000 standard cubic feet. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Natural gas and/or refinery fuel gas usage during any consecutive 12-month period shall be calculated by the sum of the natural gas and refinery fuel gas usages during any one month added to the sum of the natural gas usage during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
15	Hours of Operation <= 3,000 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
16	The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR 60.48c(g)(1)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(0)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily [N.J.A.C.7:27-22.16(o)]. All records shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. [40 CFR 60.48c(h)(i)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U21 South Plant New Flare**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1and GR3 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emergency releases to the flare are limited to the following equipment: SRU, CHD-1 MEA Unit, CCR, NHT, FGDU, CHD-1 Unit. FCC Unit, Alkylation Unit, and ancillary equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Emissions for VOC, NOx, CO, SO2 and Particulate are below threshold (tons per year) for flare on pilot flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Sulfur Compounds other than S02, S03 and H2S04 <= 58 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period. [N.J.A.C. 7:27-7.2(i)] &. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
5	Flowrate <= 44,000 ACFM. Maximum gas flow rate to flare. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by material feed/flow monitoring continuously.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
6	Minimum heat content at burner tip = 2,100 Btu/ft3. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially, based on a daily average. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum pilot gross heat input <= 1.13 mmBtu/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual fuel used to fire pilot <= 9.68 mmscf/yr based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U22 South Plant Flare - New**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1and GR3 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emergency releases to the flare are limited to the following equipment: SRU, CHD-1 MEA Unit, CCR, NHT, FGDU, CHD-1 Unit. FCC Unit, Alkylation Unit, and ancillary equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Emissions for VOC, NOx, CO, SO2 and Particulate are below threshold (tons per year) for flare on pilot flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Sulfur Compounds other than S02, S03 and H2S04 <= 65 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period. [N.J.A.C. 7:27-7.2(i)] &. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
5	Flowrate <= 63,000 ACFM. Maximum gas flow rate to flare. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by material feed/flow monitoring continuously.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
6	Minimum heat content at burner tip = 2,200 Btu/ft3. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially, based on a daily average. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum pilot gross heat input <= 1.13 mmBtu/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual fuel used to fire pilot <= 9.68 mmscf/yr based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U25 North Plant Flares - Primary and Backup**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1and GR3 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emergency releases to this flare come from: Crude Unit #6, Crude Unit #7, Dehex Unit #4, Furf I, Furf II, Coker Blowdown Gases, Propane Deasphalting Unit (PDA), MLDW, H2 Plant, CHD-2 Unit, and ancillary equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Pilot VOC, CO, SO2 and particulate emissions are below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Pilot NOx emissions <= 0.22 tpy (0.05 lb/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Sulfur Compounds other than S02, S03 and H2S04 <= 28 lb/hr. (Maximum allowable emission rate in any 60-minute period. [N.J.A.C. 7:27-7.2(i)] &. [N.J.A.C. 7:27-7.2(r)]	None.	None.	None.
6	Flowrate <= 6.9 MMft^3. Maximum gas flow rate to flare. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by material feed/flow monitoring continuously.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
7	Minimum heat content at burner tip =1,500 Btu/ft3. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially, based on a daily average. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
8	Maximum pilot gross heat input <= 0.8 mmBtu/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Annual fuel used to fire pilot <= 7.38 mmscf/yr based on 8760 hours of operation/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Flare E35 operated only during flare E34 maintenance downtime. E35 operation shall be minimized. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Marine Vessel Loading Vapor Recovery System with Thermal Oxidation**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, CO, NOx and VOC control efficiency as specified in the compliance plan for OS1, [N.J.A.C. 7:27-16.5(h)] and [N.J.A.C. 7:27-16.5(i)]. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
2	VOC (Total) <= 6.26 tons/yr. Annual emission limit based on maximum annual throughput. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	NOx (Total) <= 4.8 tons/yr. Annual emission limit based on maximum annual throughput. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 6.61 tons/yr. Annual emission limit based on maximum annual throughput. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	The permittee shall install and operate a control apparatus, which reduces the total VOC emissions to the outdoor atmosphere resulting from gasoline transfers at the facility by no less than 95 percent by weight. [N.J.A.C. 7:27-16.5(b)]	Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.o]
8	The control apparatus shall be used during all gasoline loading and ballasting operations. [N.J.A.C. 7:27-16.5(e)]	None.	Other: Maintain records that confirm the control apparatus was used during each ballasting operation.[N.J.A.C. 7:27-22.16(o)].	None.
9	No person shall cause, suffer or allow the transfer of any applicable VOC or ballasting, if the delivery vessel being loaded, any control apparatus, or other equipment serving the transfer, has a leak that results in a concentration of VOC greater than or equal to 100% of the LEL of propane when measured at a distance of 1 inch (1") or less from the source. [N.J.A.C. 7:27-16.5(f)1i]	Other: The permittee shall test all flanges connected to the delivery vessel for leaks prior to beginning the transfer of applicable VOC according to EPA's Reference Method 21 (40 CFR Part 60 Appendix A).[N.J.A.C. 7:27-16.5(g)].	Other: Recordkeeping by completion of United States Coast Guard Form for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
10	No person shall cause, suffer, allow or permit the transfer of any applicable VOC or ballasting, if the delivery vessel being loaded, any control apparatus, or other equipment serving the transfer, has a liquid leak of applicable VOC. [N.J.A.C. 7:27-16.5(f)1ii]	Other: The permittee shall inspect the transfer marine tank vessel, delivery vessel and control apparatus for liquid leaks by visual determination prior to beginning and during transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by completion of United States Coast Guard Form for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	No person shall cause, suffer, allow or permit the transfer of any applicable VOC or ballasting if any component of the marine tank vessel or any control apparatus serving the source operation is not installed and operating as designed. [N.J.A.C. 7:27-16.5(f)2]	Other: The permittee shall conduct a visual inspection of the transfer marine tank vessel, delivery vessel and control apparatus prior to beginning transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by completion of United States Coast Guard Form for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
12	No person shall cause, suffer, allow or permit the transfer of any applicable VOC or ballasting, if the transfer results, or would result, in a liquid VOC spill. [N.J.A.C. 7:27-16.5(f)3]	Other: The permittee shall conduct a visual inspection of the transfer marine tank vessel, delivery vessel and control apparatus prior to beginning and during transfer.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by tion of United States Coast Guard Form for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
13	The owner/operator shall determine VOC emissions during the transfer of VOC to a marine tank vessel, for at least 60 minutes during the transfer of the last 50 percent of total liquid cargo. If the last 50 percent of the total liquid cargo is less than a 60 minute duration, the testing shall be performed during the transfer of the entire last 50 percent of the total liquid cargo. [N.J.A.C. 7:27-16.5(h)]	Other: Testing to determine emissions of VOC during transfer shall be conducted in accordance with: 1. New Jersey Air Test Method 3 (N.J.A.C. 7:27B-3); 2. EPA's Reference Method 25 or 25(a) (40 CFR-Part 60-Appendix A); or 3. Any other equivalent test method approved in advance in writing by the Department and acceptable to EPA.[N.J.A.C. 7:27-16.5(i)].	None.	None.
14	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp. [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.
15	See Table 1 of [40 CFR 63 Subpart Y] for applicable General Provisions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Total source emissions limited to less than 9.1 Mg/yr (10 tons/yr) of each individual HAP and less than 22.7 Mg/yr (25 tons/yr) of all HAP combined. NOTE: 40 CFR 63.562(b) and (d) do not apply. [40 CFR 63.560(a)(2)]	Other: Calculate an annual estimate of HAP emissions from marine tank vessel loading operations. Emission estimates and emission factors shall be based on test data, or if test data is not available, shall be based on measurement or estimating techniques generally accepted in industry practice for operating conditions at the source.[40 CFR 63.565(l)].	Other: Retain records of the emissions estimates determined in 40 CFR 63.565(l) and records of their actual throughputs by commodity, for 5 years.[40 CFR 63.567(j)(4)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Facility throughput is limited to less than 1.6 billion liters (10 million barrels) of gasoline annually and less than 32 billion liters (200 million barrels) of crude oil annually. NOTE: 40 CFR 63.562(c) and (d) do not apply. [40 CFR 63.560(b)(2)]	Other: Monitored by an automatic tank gauging system based on a 24 hour average continuously. The automatic tank gauging system shall be operated whenever gasoline is being loaded. Alternatively, the permittee may use the amount of material measured on the vessel by gauging.[N.J.A.C. 7:27-25.16(o)].	Other: Retain records of the actual throughputs by commodity, for 5 years.[40 CFR 63.567(j)(4)].	None.
18	The discharge point of a cargo tank filling line must be no higher above the bottom of the cargo tank or sump than 10 cm (approx. 4 in.) or the radius of the filling line, whichever is greater. [46 CFR 153.282] and [40 CFR 63.560(a)(4)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Marine Vessel Loading Vapor Recovery System with Thermal Oxidation**
Operating Scenario: **OS1 Marine Barge Loading of Gasoline with Thermal Oxidation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 15.42 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
2	VOC (Total) <= 10 mg/liter gasoline loaded. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
3	NOx (Total) <= 9.41 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 12.97 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
5	PM-10 (Total) <= 0.24 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.24 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer >= 1,500 degrees F. The permittee shall have the option of establishing a different temperature limit based upon the temperature during stack testing that meets the minimum destruction efficiency of 95%. The temperature limit will be a minimum of 50 degrees F above the temperature that met the destruction efficiency. [N.J.A.C. 7:27-22.16(a)]	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer: Monitored by temperature instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Thermal Oxidizer Minimum VOC Destruction and Removal Efficiency >= 95 %. [N.J.A.C. 7:27-22.16(a)]	Minimum VOC Destruction and Removal Efficiency: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Minimum VOC Destruction and Removal Efficiency: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule . [N.J.A.C. 7:27-22.16(o)]
9	Thermal Oxidizer Minimum Residence Time >= 0.5 seconds. [N.J.A.C. 7:27-22.16(a)]	Minimum Residence Time: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Minimum Residence Time: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
10	CO <= 100 ppmvd @ 7% O2. For O2 concentrations in the flue gas greater than 14%, the maximum allowable concentration of CO is 50 ppmv, on a dry basis, uncorrected. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average at all times when gasoline is being loaded. The monitor shall be installed downstream from the thermal oxidizer and measure and record CO and O2. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
11	The Thermal Oxidizer shall not be shutdown until all air contaminants have been purged from the air handling systems after source shutdown. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Total Material Transferred <= 184,800 gal/hr maximum. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by automatic tank gauging system based on a 24 hour average continuously. The automatic tank gauging system shall be operated whenever gasoline is being loaded. Alternatively, the permittee may use the amount of material measured on the vessel by gauging.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Total Material Transferred <= 150 MMgal/yr (gasoline). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by automatic tank gauging system based on a 24 hour average continuously. The automatic tank gauging system shall be operated whenever gasoline is being loaded. Alternatively, the permittee may use the amount of material measured on the vessel by gauging.[N.J.A.C. 7:27-22.16(o)].	Other: For each transfer of gasoline into a marine tank vessel, maintain the following information for at least 5 years: The company name and address of the marine terminal, the date, the name and registry of the marine tank vessel, the type of VOC and the quantity, in gallons or liters, loaded into the marine tank vessel, and the prior cargo carried by the marine tank vessel and the condition (that is, cleaned, crude oil washed, gas freed, etc.) of the cargo tanks on the marine tank vessel prior to their being loaded.[N.J.A.C. 7:27-16.5(j)].	None.
14	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination once per calendar day during operation (when gasoline loading gasoline barges). Conduct visual opacity inspections during daylight hours. If visible emissions are observed, the permittee shall: Take corrective action immediately to eliminate the excess emissions. If the corrective action does not eliminate the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2 or equivalent method approved by BTS. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter daily. Manually log in a permanently bound logbook and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment: (4) Observed results and conclusions: (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event. The permittee shall only report permit violations (excess visible emissions) to the Department pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U49 Coker Hydrobin Bins**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(d)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C.7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Material processed limit to petroleum coke from Coker unit. [N.J.A.C. 7:27-22.16(a)]	Other: Review production records.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by production records per change of material. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Material Transferred <= 30 MMft^3/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by records of annual coke sales.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter each month during operation. Log the coke sales in a logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-22.16(o)]	None.
4	Hourly throughput <= 1,720 cubic feet per hour for each open top storage bin. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by daily records of coke sales.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The hourly rate can be calculated by dividing the sales one day by 24. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U52 FCC Catalyst Loading/Unloading and Removal**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	TSP <= 3.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 3.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U52 FCC Catalyst Loading/Unloading and Removal**

Operating Scenario: **OS1 E24 - Hopper, 10,050 cubic feet capacity - Pneumatic truck loading/unloading of fresh catalyst with Scrubber (Venturi)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1 lb/hr. Particulate emission limit based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Permittee's batch process rate for Fresh FCCU Catalyst <= 50,000 pounds per batch. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring once per batch during operation, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Minimum hours per batch =4 hours per batch. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual throughput is limited to 20,800,000 lbs/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	CD12 Venturi scrubber: Flowrate of the Scrubbing Solution Through the Scrubber >= 20 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of the Scrubbing Solution Through the Scrubber: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of the Scrubbing Solution Through the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U52 FCC Catalyst Loading/Unloading and Removal**

Operating Scenario: **OS2 E41 - Hopper, 12,700 cubic feet capacity - Removal of equilibrium catalyst with Scrubber (Venturi)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.4 lb/hr. Particulate emission limit based on 99% efficiency of collection. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP <= 1.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 1.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Permittee's batch process rate for Equilibrium FCCU Catalyst <= 20,000 pounds per batch. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring once per batch during operation, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Minimum hours per batch = 1 hour per batch. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per batch during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual throughput is limited to 5,200,000 lbs/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	CD12 Venturi scrubber: Flowrate of the Scrubbing Solution Through the Scrubber >= 20 gal/min. [N.J.A.C. 7:27-22.16(a)]	Flowrate of the Scrubbing Solution Through the Scrubber: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Flowrate of the Scrubbing Solution Through the Scrubber: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U52 FCC Catalyst Loading/Unloading and Removal**
Operating Scenario: **OS3 FCCU Catalyst Multiloader with Cartridge Filter**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 30 lb/hr. Particulate emission limit based on 99% efficiency of collection. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Catalyst multiloader operates at a rate of less than or equal to 350 lbs/cycle and less than or equal to 12 cycles/hr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
5	Pressure Drop >= 1 and Pressure Drop <= 8 inches w.c. across the cartridge filter CD20. If pressure drop exceeds 8 inches w.c., the cartridge filter must be replaced with a new cartridge filter. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by data acquisition system (DAS) / electronic data storage once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual throughput is limited to less than or equal to 29,200,000 lbs/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR5 Ref. #'s 10 through 12 and 14 through 17 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	See Subject Item GR8 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The total annual benzene quantity from facility waste is the sum of the annual benzene quantity for each waste stream at the facility that has a flow-weighted annual average water content greater than 10 percent or that is mixed with water, or other wastes, at any time and the mixture has an annual average water content greater than 10 percent. [40 CFR 61.342(a)]. The owner / operator calculated the total annual benzene quantity from facility waste to be greater than 10 megagrams per year (Mg/yr) (11 ton/yr), therefore the facility may comply with [40 CFR 61.342(c)], (d) or (e). [40 CFR 61.355(a)(3)]. The owner has elected to comply with [40 CFR 61.342(e)]. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by calculations using the procedures at [40 CFR 61.342(a)], [40 CFR 61.355(a)], [40 CFR 61.355(b)] and[40 CFR 61.355(c)].	Other: Comply with all the applicable recordkeeping requirements at[40 CFR 61.356].	Submit a report: As per the approved schedule. Comply with all the applicable reporting requirements at. [40 CFR 61.357]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall manage and treat facility waste with a flow-weighted annual average water content of less than 10 percent in accordance with [40 CFR 61.642(c)(1)]. [40 CFR 61.642(e)(1)]. Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in [40 CFR 61.348]. [40 CFR 61.642(c)(1)(i)]. Comply with the standards specified in [40 CFR 61.343] through [40 CFR 61.347] for each waste management unit that receives or manages the waste stream prior to and during treatment. [40 CFR 61.642(c)(1)(ii)]. A waste stream is exempt from [40 CFR 61.342(c)(1)] provided the owner or operator demonstrates initially and, thereafter, at least once per year that the flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw (using the procedures specified in [40 CFR 61.355(c)(2)] or (3). [40 CFR 61(642)(c)(2)]	Other: Monitor each treatment process or wastewater treatment system as specified at [40 CFR 61.354(a)].[40 CFR 61.354(a)].	Other: Comply with all the applicable recordkeeping requirements at[40 CFR 61(356)].	Submit a report: As per the approved schedule. Demonstrate that each treatment process achieves the appropriate conditions specified in [40 CFR 61.348(a)] in accordance with engineering calculations specified in [40 CFR 61.356(e)], or performance tests conducted using the test methods and procedures that meet the requirements in [CFR 61.355]. [40 CFR 61.348(c)]. Comply with all the applicable reporting requirements at. [40 CFR 61.357]
5	The owner or operator shall manage and treat facility waste (including remediation and process unit turnaround waste) with a flow-weighted annual average water content of 10 percent or greater, on a volume basis as total water, and each waste stream that is mixed with water or wastes at any time such that the resulting mixture has an annual water content greater than 10 percent, in accordance with [40 CFR 61.642(e)(2)]. [40 CFR 61.642(e)(2)]	Other: Determine the quantity of benzene in each waste stream defined in [40 CFR 61.642(e)(2)] in accordance with [40 CFR 61.355(k)]. [40 CFR 61.642(e)(2)(ii)]. The benzene quantity for the wastes described in [40 CFR 61.642(e)((2)] must be equal to or less than 6.0 Mg/yr (6.6 ton/yr).[40 CFR 61.642(e)(2)(i)].	Other: Comply with all the applicable recordkeeping requirements at[40 CFR 61.356].	Submit a report: As per the approved schedule. Comply with all the applicable reporting requirements at. [40 CFR 61.357]
6	Measure the wastewater (WW) discharge rate (gal/day). [N.J.A.C. 7:27-22.16(e)]	Monitored by material feed/flow monitoring continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage daily. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Sample the Wastewater Treatment Plant (WWTP) inlet stream monthly. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the sample for VOC using Test Method SW-846 8260.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Sample the Benzene Waste Organic NESHAP (BWON) end of line waste water streams once each quarter. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the samples for VOC using Test Method SW-846 8260.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Calculate the WWTP emissions each month using the following data: i) WWTP inlet stream analysis, ii) BWON waste water streams analyses, iii) WW discharge rate (month ave), and iv) BWON waste stream flowrate (month ave). [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record emissions for each HAP/VOC in lb/hr and tons. [N.J.A.C. 7:27-22.16(o)]	None.
10	Benzene <= 3.2 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.
11	Ethylbenzene <= 1.5 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Ethylbenzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Ethylbenzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Naphthalene <= 1.5 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Naphthalene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Naphthalene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.
13	Toluene <= 8.6 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Toluene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Toluene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.
14	Xylene <= 3.8 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Xylene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	Xylene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	HAPs (Total) <= 18.6 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.
16	VOC (Total) <= 23.2 tons/yr per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. NOTE: UNFORSEEN DELAYS IN SAMPLE ANALYSES MAY RESULT IN A DELAYED CALCULATION CYCLE. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The tons/yr emission per any consecutive 12 month period is to be computed by adding the emission for any month to the total emissions for the preceding 11 months. This procedure will begin the first full month following the final issuance of the Operating Permit. [N.J.A.C. 7:27-22.16(o)]	None.
17	VOC Source Fugitive Emissions <= 65 tons/yr. Source Fugitive emissions include sewer line junction boxes, vents, drains, sumps, vents and conveyance system between wastewater equipment and does not include emissions from significant equipment. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**
Operating Scenario: **OS4 WWTP: API oil/water separator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR5 Ref. #'s 1 through 9, and 13. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The API Separator shall be covered and the collected VOC emissions shall be vented to a control device that demonstrates a minimum of 95 percent control efficiency. The API separator cover may incorporate a combination of both floating roof and fixed roof covers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Replace the activated carbon in any primary carbon guard chamber when "breakthrough" is detected. "Breakthrough" between the primary and secondary carbon bed is defined as any reading equal to or greater than 100 ppm or 5 ppm benzene. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring each week during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation Permittee shall record the replacement history for each carbon guard chamber. [N.J.A.C. 7:27-22.16(o)]	Submit an equipment protocol: Once initially for the portable VOC / Benzene analyzer to be used to monitor breakthrough. Submit the equipment protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625. [N.J.A.C. 7:27-22.16(o)]
4	VOC Control Efficiency >= 95 % control. [N.J.A.C. 7:27-22.16(a)]	VOC Control Efficiency: Monitored by periodic emission monitoring (portable instrument) once initially, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain test results.[N.J.A.C. 7:27-22.16(o)].	None.
5	VOC (Total): < 0.5 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**
Operating Scenario: **OS5 WWTP: DAF lift station**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total): < 3.0 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	VOC (Total): <= 2.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Toluene: <= 1.0 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Toluene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Toluene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Xylene: <= 1.0 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Xylene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Xylene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Benzene: <= 0.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**

Operating Scenario: **OS6 WWTP: DAF #1 - Dissolved Air Flotation Unit, OS7 WWTP: DAF #2 - Dissolved Air Flotation Unit, OS8 WWTP: DAF #3 - Dissolved Air Flotation Unit, OS9 WWTP: DAF #4 - Dissolved Air Flotation Unit**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total): < 3.0 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	VOC (Total): <= 2.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Benzene: <= 0.65 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Ethylbenzene: <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Ethylbenzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Ethylbenzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Toluene: <= 1.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Toluene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Toluene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Xylene: <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Xylene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Xylene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**

Operating Scenario: **OS10 WWTP: Aeration Basin #1, OS11 WWTP: Aeration Basin #2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total): < 3.0 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	VOC (Total): <= 2.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
3	Benzene: <= 1.4 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Toluene: <= 1.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Toluene: Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	Toluene: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U53 Wastewater Treatment Plant Sewer System**
Operating Scenario: **OS12 WWTP: Clarifier #1, OS13 WWTP: Clarifier #2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total): < 3.0 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	VOC (Total): <= 2.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation using the current version of EPA's WATER9 software or other Department approved method. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 SRU Thermal Oxidizer**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The following requirements apply to U56 only when process streams are being routed to it. The requirements do not apply when U56 is on "hot stand-by." [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee identified U56 as a "bypass line" in the initial notice of compliance submitted to NJDEP and USEPA. U56 is therefore subject to the requirements specified at [40 CFR 63.1569]			
3	For additional requirements see GR1, GR2 Ref. #'s 4 through 6, and Table 44 of [40 CFR 63 Subpart UUU]. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Install a car-seal or lock-and-key device placed on the mechanism by which the bypass device flow position is controlled (e.g., valve handle, damper level) when the bypass device is in the closed position such that the bypass line valve cannot be opened without breaking the seal or removing the device. [40 CFR 63.1569(a)(1)(ii)]	Other: Visually inspect the seal or closure mechanism at least once every month to confirm whether the bypass line valve is maintained in the closed position and whether flow is present in the line.[40 CFR 63.1569(c)(1)].	Other: Recording whether the bypass line valve is maintained in the closed position and whether flow is present in the line (at least once each month).[40 CFR 63.1576(d)].	Demonstrate compliance: As per the approved schedule. Initial Compliance Demonstration: As part of the initial notification of compliance status, certify that the equipment was installed , the equipment was operational by the compliance date, and identify what equipment was installed. [40 CFR 63.1569(b)(2)]. Continuous Compliance Demonstration: Visually inspect the seal or closure mechanism at least once every month; and record whether the bypass line valve is maintained in the closed position and whether flow is present in the line. [40 CFR 63.1569(c)(1)]. Submit semiannual reports in accordance with. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The permittee must shall prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the plan. [40 CFR 63.1569(a)(3)]	Other: Operate at all times according to the procedures in the OMMP.[40 CFR 63.1569(c)(2)].	Other: Keep a current copy of your operation, maintenance, and monitoring plan onsite and available for inspection. Keep records to show continuous compliance with the procedures in your OMMP.[40 CFR 63.1576(e)].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance with the work practice standard by submitting the OMMP to your permitting authority as part of your notification of compliance status. [40 CFR 63.1569(b)(3)]. Demonstrate continuous compliance with the work practice standard by complying with the procedures in your OMMP [40 CFR 63.1569(c)(2)]. Submit semiannual reports in accordance with. [40 CFR 63.1575]
6	VOC (Total) <= 0.13 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	VOC (Total) <= 0.03 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 9 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 2 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 2 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 0.4 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.4 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.1 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 0.4 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.1 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	SO2 <= 540 lb/hr. Maximum allowable emission rate for SO2 in any 60-minute period. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
17	SO2 <= 1,080 lb/hr. Maximum allowable emission rate for SO2 at any instant. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
18	SO2 <= 2,000 ppmv at standard conditions. [N.J.A.C. 7:27- 7.2(b)1]	None.	None.	None.
19	Sulfur Compounds other than S02, S03 and H2S04 <= 34 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period and at any instant. [N.J.A.C. 7:27- 7.2(i)]	None.	None.	None.
20	SO2 <= 2,232 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Hydrogen sulfide <= 1.1 tons/yr based on 8,760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Hydrogen sulfide <= 0.25 lb/hr at the thermal oxidizer exit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	The thermal oxidizer H2S destruction efficiency >= 96.8%. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Residence Time >= 0.5 seconds. Minimum residence time in the oxidizer. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer: >= 800 F. The following factors were considered in setting the 800 F temperature: i) The autoignition temperature of H2S is around 530 F. ii) The thermal oxidizer is mostly on "hot standby". iii) Process streams that are diverted to the thermal oxidizer are typically low flow streams. [N.J.A.C. 7:27-22.16(a)]	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer: Monitored by temperature instrument continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer: Recordkeeping by strip chart or data acquisition (DAS) system each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The Thermal Oxidizer shall not be shutdown until all air contaminants have been purged from the air handling systems after source shutdown. [N.J.A.C. 7:27-22.16(o)]	Other: Process records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily available records.[N.J.A.C. 7:27-22.16(o)].	None.
27	Thermal oxidizer refinery fuel gas usage <= 87.6 MM cubic feet per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The cubic feet per any consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
28	Maximum thermal oxidizer heat input <= 20 MM Btu per hour. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
29	In addition to the operating scenarios OS4 to OS10, the Incinerator is to be used for the combustion of emergency and safety process releases from the Sulfur Recovery Units. The composition, flow rate and duration will be estimated. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain a record identifying all emergency and safety process releases, the reason for the release and any information demonstrating that the release is unavoidable, is environmentally and economically appropriate and that planning was done in manner which minimized the volume of the release.[N.J.A.C. 7:27-22.16(o)].	Submit a report: Upon occurrence of event. Emergency releases must be reported to the Department pursuant to N.J.A.C. 7:37-22.19(g) and may include affirmative defense. [N.J.A.C. 7:27-22.16(o)]
30	Comply with the following requirements after August 1, 2017. [40 CFR 63.1563(d)(1)]	None.	None.	None.
31	You can elect to send any startup or shutdown purge gases to a thermal oxidizer or incinerator operated at a minimum hourly average temperature of 1,200 degrees Fahrenheit in the firebox and a minimum hourly average outlet oxygen (O2) concentration of 2 volume percent (dry basis). [40 CFR 63.1568(a)(4)(iii)]	Other: Install and operate a continuous parameter monitoring systems according to the requirements in 40 CFR 63.1572, to measure and record the firebox temperature of each thermal incinerator or oxidizer and the oxygen content (percent, dry basis) in the exhaust vent from the incinerator or oxidizer.[40 CFR 63.1568(b)(1)].	Other: Keep all applicable records specified at[40 CFR 63.1576].	Submit a report: As per the approved schedule. Submit all applicable reports specified at. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 SRU Thermal Oxidizer**
Operating Scenario: **OS4 E313 - Tail Gas Unit # 80, OS5 E314 - Tail Gas Unit # 81**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 520 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 750 lb/hr. Maximum hourly throughput (hydrogen sulfide, carbonyl sulfide, carbon disulfide and sulfur dioxide) limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 3,285 tons/yr. Annual throughput limit from operating permit application based on 8760 hous of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 SRU Thermal Oxidizer**

Operating Scenario: **OS6 E307 - Sulfur Recovery Unit # 3 , OS7 E308 - Sulfur Recovery Unit # 2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 6.3 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hydrogen sulfide <= 0.03 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 5 lb/hr. Maximum hourly throughput (hydrogen sulfide, carbonyl sulfide, carbon disulfide and sulfur dioxide) limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 21.9 tons/yr. Annual throughput limit from operating permit application based on 8760 hous of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 SRU Thermal Oxidizer**
Operating Scenario: **OS8 E309 - SRU loading rack**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 7.6 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 30,000 lb/hr. Maximum hourly throughput (hydrogen sulfide, carbonyl sulfide, carbon disulfide and sulfur dioxide) limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 131,400 tons/yr. Annual throughput limit from operating permit application based on 8760 hous of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Hydrogen sulfide <= 0.04 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U56 SRU Thermal Oxidizer**

Operating Scenario: **OS9 E310 - SRU #2 Sulfur Pit (100,000 gallon capacity) , OS10 E311 - SRU #3 Sulfur Pit (100,000 gallon capacity)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 7.6 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Hydrogen sulfide <= 0.04 lb/hr. Maximum emission limit from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 22 MMgal/yr. Annual throughput (molten sulfur) limit from operating permit application based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	VOC (Total) <= 11.6 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	NOx (Total) <= 143 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	CO <= 30.8 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	SO2 <= 9.57 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	TSP <= 10 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-10 (Total) <= 10 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	This requirement does not apply to OS7 E323 and OS8 E680. Item 4 of this requirement applies to OS2 E324, OS4 E326, OS5 E327 and OS6 E328 only. Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or 4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	This requirement does not apply to OS7 E323 and OS8 E680. This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**

Operating Scenario: **OS1 No. 89 RW - 1500 BHP Diesel RICE - Water to Utilities (emergency), OS2 FP @ 1185 - 1500 BHP Diesel RICE - Fire Pump @ Tank 1185**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 3.82 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Particulate Emissions <= 2.3 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 3.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 46.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 10 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 3.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 3.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 3.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Hours of Operation: for testing and maintenance shall not exceed the limit documented by the manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
11	Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2i)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**

Operating Scenario: **OS3 G-201 - 575 BHP Diesel RICE - Water to Utilities (emergency), OS4 G-202 - 575 BHP Diesel RICE - Fire Water, OS5 G-203 - 575 BHP Diesel RICE - Fire Water**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 1.47 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Particulate Emissions <= 0.88 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 1.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 17.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 3.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 1.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Hours of Operation: for testing and maintenance shall not exceed the limit documented by the manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
11	Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2i)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**
Operating Scenario: **OS6 G-205 - 460 BHP Diesel RICE - Fire Water**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 1.17 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Particulate Emissions <= 0.7 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 1.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 14.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 3.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.94 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Hours of operation for testing and maintenance shall not exceed the limit documented by the manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	None.	None.	None.
12	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2c, item 1a to Subpart ZZZZ of 40 CFR 63. [40 63.6602]. The owner or operator has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement. [40 CFR 63.6625(i)]	None.	Other: Keep records of the maintenance conducted on the stationary RICE. [40 CFR 63.6655(e)]. Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.[40 CFR 63.6660(b)].	Submit a report: As per the approved schedule. Report each instance in which you did not meet each emission limitation or operating limitation in Table 2c of 40 CFR 63 Subpart ZZZZ that apply to you. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
13	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2c, item 1b and 1c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	None.	Other: Keep records of the maintenance conducted on the stationary RICE. [40 CFR 63.6655(e)]. Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.[40 CFR 63.6660(b)].	Submit a report: As per the approved schedule. Report each instance in which you did not meet each emission limitation or operating limitation in Table 2c of 40 CFR 63 Subpart ZZZZ that apply to you. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
14	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	Other: Follow the manufacturer's emission-related operation and maintenance instructions, or the inhouse developed maintenance plan.[40 CFR 63.6640(a)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	None.	Other: Keep the records required in Table 6 of this subpart to show continuous compliance with each work practice standard that applies to you. [40 CFR 63.6655(d)]. Keep records of the manufacturer's emission-related instructions and /or copies of the maintenance plan onsite.[N.J.A.C. 7:27-22.16(o)].	Submit a report: As per the approved schedule. Report each deviation according to the requirements in. [40 CFR 63.6650]
16	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: Monitor idle time at each start-up.[N.J.A.C. 7:27-22.16(o)].	Other: Keep start-up idle time records.[N.J.A.C. 7:27-22.16(o)].	Submit a report: As per the approved schedule. Report each instance in which you did not meet each emission limitation or operating limitation in Table 2c of 40 CFR 63 Subpart ZZZZ that apply to you. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
17	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 63.6640(f)(2i)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Comply with the General Provisions in Table 8 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6665]	None.	None.	Submit a report: As per the approved schedule. Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [40 CFR 63.6640(e)]. Submit reports as specified at. [40 CFR 63.6650]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**
Operating Scenario: **OS7 OM Diesel - 475 BHP Diesel RICE - Oil Movements. (Non Emergency)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.73 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.15 lb/hr (0.19 tpy) based on a Tier IV emission limit of 0.19 g/kw-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.31 lb/hr (0.39 tpy) based on a Tier IV emission limit of 0.4 g/kw-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 2.73 lb/hr (3.41 tpy) based on a Tier IV emission limit of 3.5 g/kw-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines. These emission limits are: CO 3.5 g/kw-hr. NOx 0.4 g/kw-hr. VOC 0.19 g/kw-hr. TSP/PM-10 0.02 g/kw-hr. 40 CFR 4204(b), 40 CFR 60.4201(a) and 40 CFR 1039.102(b) Table 6. These emission limits apply over the entire life of the engine. [40 CFR 60.4206]	Other: Operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions, and change only those emission-related settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]. Purchase an engine certified to the emission standards in 40 CFR 60.4204(b). The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as specified at[40 CFR 60.4211(g)(2)].	Other: Keep the original certificate of compliance supplied by the engine manufacturer at the time the engine was purchased.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b). The following per-gallon sulfur content and cetane index (or aromatic content)fuel standards apply: (1) Sulfur content: 15 ppm maximum, (2) Cetane index: 40 minimum (or aromatic content: 35 vol.% maximum). [40 CFR 80.510(b)] and [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
7	If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [40 CFR 60.4209(b)]	None.	Other: Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.[40 CFR 60.4214(c)].	None.
8	See Table 8 to Subpart IIII of Part 60 for General Provisions that apply to you. [40 CFR 60.4218]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U57 Refinery Diesel Engines**
Operating Scenario: **OS8 Sludge Diesel Engine - 75 BHP Diesel RICE (Non Emergency)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.12 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx + NMHC <= 0.58 lb/hr (0.58 tpy) based on a Tier IV emission limit of 4.7 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.62 lb/hr (0.62 tpy) based on a Tier IV emission limit of 5.0 g/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.06 lb/hr (0.0.06 tpy) based on a AP-42 emission factor of 0.29 lb/mmbtu. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines. These Tier IV emission limits are: CO: 5.0 g/kw-hr. NOx + NMHC: 4.7 g/kw-hr. TSP/PM-10: 0.3 g/kw-hr. 40 CFR 4204(b), 40 CFR 60.4201(a) and 40 CFR 1039.102(b) Table 3. These emission limits apply over the entire life of the engine. [40 CFR 60.4206]	Other: Operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions, and change only those emission-related settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]. Purchase an engine certified to the emission standards in 40 CFR 60.4204(b). The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as specified at[40 CFR 60.4211(g)(1)].	Other: Keep the original certificate of compliance supplied by the engine manufacturer at the time the engine was purchased.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Smoke from your engine may not exceed the following standards: (1) 20 percent during the acceleration mode. (2) 15 percent during the lugging mode. (3) 50 percent during the peaks in either the acceleration or lugging modes. [40 CFR 1039.501(c)] and [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep the original certificate of compliance supplied by the engine manufacturer at the time the engine was purchased.[N.J.A.C. 7:27-22.16(o)].	None.
7	Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b). The following per-gallon sulfur content and cetane index (or aromatic content)fuel standards apply: (1) Sulfur content: 15 ppm maximum, (2) Cetane index: 40 minimum (or aromatic content: 35 vol.% maximum). [40 CFR 80.510(b)] and [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
8	If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [40 CFR 60.4209(b)]	None.	Other: Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.[40 CFR 60.4214(c)].	None.
9	See Table 8 to Subpart IIII of Part 60 for General Provisions that apply to you. [40 CFR 60.4218]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U59 Bioremediation Treatment Facility**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This emission unit is presently decommissioned. Determine the VOC / HAP concentration in the soil to be remediated when U59 is recommissioned. [N.J.A.C. 7:27-22.16(a)]	Other: Analyze a soil sample each quarter using a method approved by the Department.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of quarterly analytical results.[N.J.A.C. 7:27-22.16(o)].	None.
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(d)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C.7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
3	Prior to bioremediation, the permittee shall demonstrate the absence or presence of free liquids in the contaminated soil using the following test: Method 9095B (Paint Filter Liquids Test) as described in EPA Publication SW-846. [N.J.A.C. 7:27-22.16(a)]	Other: Conduct screening tests prior to bioremediation.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily available records of screening test results.[N.J.A.C. 7:27-22.16(o)].	None.
4	Develop a "Waste Characterization" map of the soil to be bioremediated. [N.J.A.C. 7:27-22.16(a)]	Other: Analyze a representative contaminated soil sample annually.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily available records of the soil "Waste Characterization" map.[N.J.A.C. 7:27-22.16(o)].	None.
5	Annual throughput limited to <= 8,000 cubic yards per year. [N.J.A.C. 7:27-22.16(a)]	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily available throughput records.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U65 Petroleum Coke Material Handling Operations**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
3	PM-10 (Total) < 0.05 lb/hr (below the reportable threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP < 0.05 lb/hr (below the reportable threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U66 CCR Chlorsorb Process Vent**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	For additional requirements see Table 44 of [40 CFR 63 subpart UUU]. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for VOC and Hydrogen Chloride as specified in the compliance plan for OS1 abd OS2 (once initially). Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Management Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 3.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hydrogen chloride <= 8.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen chloride: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Opacity: <= 20%. Opacity greater than 20%, exclusive of condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
6	Organic HAP Emissions: Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the OMMP. [40 CFR 63.1566(a)(5)]	Other: Operate at all times according to the procedures in the OMMP.[40 CFR 63.1566(a)(5)].	Other: Maintain records to document conformance with the procedures in your OMMP. [40 CFR 63.1566(c)(2)]. Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance by submitting the OMMP to your permitting authority as part of your Notification of Compliance Status according to [40 CFR 63.1574]. [40 CFR 63.1566(b)(7)]. Demonstrate continuous compliance by complying with the procedures in your OMMP. [40 CFR 63.1566(c)(2)] Report deviations according to [40 CFR 63.1570(f)]. Submit semiannual reports per. [40 CFR 63.1575]
7	During catalyst depressuring and catalyst purging operations (prior to the coke burn-off cycle), reduce uncontrolled emissions of total organic compounds (TOC) or nonmethane TOC from your process vent by 98 percent by weight using a control device or to a concentration of 20 ppmv (dry basis as hexane), corrected to 3 percent oxygen, whichever is less stringent. [Table 15 to 40 CFR 63 Subpart UUU] and [40 CFR 63.1566(a)]	Other: Route this gaseous stream to fuel gas. [N.J.A.C. 7:27-22.16(o)]. NOTE: 63 CFR Subpart UUU does not apply to gaseous streams routed to a fuel gas system.[40 CFR 63.1562(f)(5)].	Other: Maintain records to show that this gaseous stream is continuously routed to fuel gas.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Inrganic HAP Emissions: Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 CFR 63.1574(f) and operate at all times according to the procedures in the OMMP. [40 CFR 63.1567(a)(3)]	Other: Operate at all times according to the procedures in the OMMP.[40 CFR 63.1567(a)(3)].	Other: Maintain records to document conformance with the procedures in your OMMP. [40 CFR 63.1567(c)(2)]. Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance by submitting the OMMP to your permitting authority as part of your Notification of Compliance Status according to [40 CFR 63.1574]. [40 CFR 63.1567(b)(6)]. Demonstrate continuous compliance by complying with the procedures in your OMMP. [40 CFR 63.1567(c)(2)] Report deviations according to [40 CFR 63.1570(f)]. Submit semiannual reports per. [40 CFR 63.1575]
9	During coke burn-off and catalyst rejuvenation reduce uncontrolled emissions of HCl by 97 percent by weight or to a concentration of 10 ppmv (dry basis), corrected to 3 percent oxygen. [Table 22 of 40 CFR 63 Subpart UUU] and [40 CFR 63.1567(a)(1)]	Other: Install, operate, and maintain a continuous monitoring system according to the requirements in [40 CFR 63.1572].[40 CFR 63.1567(b)(1)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. [40 CFR 63.1567(b)(2)]. Demonstrate continuous compliance according to the methods specified in 40 CFR 63 Subpart UUU Tables 27. [40 CFR 63.1567(c)(1)]. Report deviations according to [40 CFR 63.1570)(f)]. Submit semi-annual reports per. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	During coke burn-off and catalyst rejuvenation the daily average temperature of the gas entering or exiting the adsorption system must not exceed the limit of 338 degrees F (established during the performance test). [Table 23 of 40 CFR 63 Subpart UUU] and [40 CFR 63.1567(a)(2)]	Other: Install, operate, and maintain a continuous monitoring system(s) according to the requirements in [CFR 63.1572] and [40 CFR 63 Subpart UUU Table 24].[40 CFR 63.1567(b)(1)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. [40 CFR 63.1567(b)(2)]. Demonstrate continuous compliance according to the methods specified in 40 CFR 63 Subpart UUU Tables 28. [40 CFR 63.1567(c)(1)]. Report deviations according to [40 CFR 63.1570)(f)]. Submit semi-annual reports per. [40 CFR 63.1575]
11	During coke burn-off and catalyst rejuvenation, the weekly average chloride level on the sorbent entering the adsorption system must not exceed the design or manufacturer's recommended limit of 1.35 weight percent for the Chlorsorb System. [Table 23 of 40 CFR 63 Subpart UUU] and [40 CFR 63.1567(a)(2)]	Other: Monitored by sample collection and analysis as specified at [40 CFR 63 subpart UUU Table 28].[40 CFR 63.1567(c)(1)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 63.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. [40 CFR 63.1567(b)(2)]. Demonstrate continuous compliance according to the methods specified in 40 CFR 63 Subpart UUU Tables 28. [40 CFR 63.1567(c)(1)]. Report deviations according to [40 CFR 63.1570)(f)]. Submit semi-annual reports per. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	During coke burn-off and catalyst rejuvenation the weekly average chloride level on the sorbent leaving the adsorption system must not exceed the design or manufacturer's recommended limit of 1.8 weight percent for the Chlorsorb System. [Table 23 of 40 CFR 63 Subpart UUU] and [40 CFR 63.1567(a)(2)]	Other: Monitored by sample collection and analysis as specified at [40 CFR 63 subpart UUU Table 28].[40 CFR 63.1567(c)(1)].	Other: Follow all applicable record-keeping requirements specified at[40 CFR 62.1576].	Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance according to the requirements in 40 CFR 63.1571 and the conditions specified in 40 CFR 63 Subpart UUU Table 25. [40 CFR 63.1567(b)(2)]. Demonstrate continuous compliance according to the methods specified in 40 CFR 63 Subpart UUU Tables 28. [40 CFR 63.1567(c)(1)]. Report deviations according to [40 CFR 63.1570)(f)]. Submit semi-annual reports per. [40 CFR 63.1575]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U66 CCR Chlorsorb Process Vent**

Operating Scenario: **OS1 CCR Chlorsorb Process Vent Normal Operations - White Burn, OS2 CCR Chlorsorb Process Vent Normal Operations - Black Burn**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C. 7:27-16.16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
3	TSP <= 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	. See OS Summary for stack test requirements. VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
5	Hydrogen chloride <= 1.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen chloride: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by stack test results once initially. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 14.56 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	HAP Benzene <= 0.32 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.98 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.06 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.06 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**

Operating Scenario: **OS1 Godwin Pump with 250 BHP Diesel Engine #1 at North Pond Sump, OS2 Godwin Pump with 250 BHP Diesel Engine #2 at North Pond Sump, OS4 Godwin Pump with 250 BHP Diesel Engine #1 at ERB Sump, OS5 Godwin Pump with 250 BHP Diesel Engine #2 at ERB Sump**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Maximum Gross Heat Input: = 0.64 mmBtu/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	Hours of Operation <= 250 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. The engine shall be equipped with a non-resettable hour meter. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 2.24 lb/hr. Based on a Tier 3 (NMHC + NOx) limit of 4.0 g/kW-hr specified on Table 1 of 40 CFR 89.112. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 2.24 lb/hr. Based on a Tier 3 (NMHC + NOx) limit of 4.0 g/kW-hr specified on Table 1 of 40 CFR 89.112. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 1.96 lb/hr. Based on a Tier 3 CO limit of 3.5 g/kW-hr specified on Table 1 of 40 CFR 89.112. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 <= 0.11 lb/hr. Based on a Tier 3 PM limit of 0.20 g/kW-hr specified on Table 1 of 40 CFR 89.112. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	TSP <= 0.11 lb/hr. Based on a Tier 3 PM limit of 0.20 g/kW-hr specified on Table 1 of 40 CFR 89.112. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 0.38 lb/hr based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
10	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
11	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
12	The permittee must comply with the certification emissions standards in 40 CFR 89.112. Emissions must not exceed the following: NMHC + NOx <= 4.0 g/kW-hr, CO <= 3.5 g/kW-hr, and PM <= 0.2 g/kW-hr. [40 CFR 60.4204(b)] and [40 CFR 60.4201(a)]	None.	Other: Keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The permittee must comply with the smoke standards in 40 CFR 89.113. Exhaust opacity must not exceed: 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in either the acceleration or lugging modes. [40 CFR 89.113(a)] Constant-speed engines are exempt from these requirements. [40 CFR 89.113(c)(3)]. [40 CFR 60.4204(b)] and [40 CFR 60.4201(a)]	None.	Other: Keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power.[N.J.A.C. 7:27-22.16(o)].	None.
14	Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 over the entire life of the engine. [40 CFR 60.4206]	None.	None.	None.
15	Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b). The following per-gallon sulfur content and cetane index (or aromatic content)fuel standards apply: (1) Sulfur content: 15 ppm maximum, (2) Cetane index: 40 minimum (or aromatic content: 35 vol.% maximum). [40 CFR 80.510(b)] and [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
16	If the engine is equipped with a diesel particulate filter, the permittee must install a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [40 CFR 60.4209(b)]	None.	Other: Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.[40 CFR 60.4214(c)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Compliance Requirements: Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; Change only those emission-related settings that are permitted by the manufacturer; and Meet the requirements of 40 CFR parts 89, as applicable. [40 CFR 60.4211(a)]	None.	Other: Keep operating and maintenance instructions and engine certification documentation supplied by the engine manufacturer.[N.J.A.C. 7:27-22.16(o)].	None.
18	If your engine must comply with the emission standards specified in 40 CFR 60.4204(b), you must purchase an engine certified to the emission standards in 40 CFR 60.4204(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]	None.	Other: Keep engine certification documentation supplied by the engine manufcturer.[N.J.A.C. 7:27-22.16(o)].	None.
19	If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as specified at [40 CFR 60.4211(g)(2)]. [40 CFR 60.4211(g)]	Other: Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.[40 CFR 60.4211(g)(2)].	Other: You must keep a maintenance plan and records of conducted maintenance.[40 CFR 60.4211(g)(2)].	Conduct a performance test: As per the approved schedule. Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. [40 CFR 60.4211(g)(2)]
20	The permittee shall comply with 40 CFR 60, Subpart A, General Provisions as shown in Table 8 to Subpart IIII of 40 CFR 60. [40 CFR 60.4218]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**
Operating Scenario: **OS3 North Pond EFR Stormwater Diversion Tank - 08-F-290 (4193 tk)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR4 Ref. #'s 1 through 37 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	See Subject Item GR5 Ref. #'s 1 through 7 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	See Subject Item GR6 Ref. # 1 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total tank throughput <= 250,000,000 gals/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by totalizing flow meter and/or tank level instrument, continouusly. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Permittee shall also maintain records of the total tank throughput during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC vapor pressure of the oil layer <= 0.5 psia at 70F. Sample the tank oil layer once each quarter to determine the vapor pressure. In place of a tank sample, the permittee may use the quarterly sample drawn at the NP Sump (E678) or the ERB Sump (E679) to determine the vapor pressure. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the sample using ASTM-D2879-83 quarterly.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Permittee shall maintain on site for a period of no less than five years, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Benzene <= 0.32 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The owner or operator shall calculate the emissions resulting from the tank oil layer each quarter during operation, using the latest version of EPA's AP-42 Chapter 7 methodology or the TANKS program. The emissions for each quarter shall be added to the emissions for the previous quarters of the calendar year. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Copies of AP-42 calculations shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 1.88 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The owner or operator shall calculate the emissions resulting from the tank oil layer each quarter during operation, using the latest version of EPA's AP-42 Chapter 7 methodology or the TANKS program. The emissions for each quarter shall be added to the emissions for the previous quarters of the calendar year. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Copies of AP-42 calculations shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**

Operating Scenario: **OS6 EFR Stormwater Diversion Tank 4194 at WWTP, OS7 EFR Stormwater Diversion Tank 4195 at WWTP**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR4 Ref. #'s 1 through 37 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	See Subject Item GR5 Ref. #'s 1 through 7 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	See Subject Item GR6 Ref. # 1 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total tank throughput <= 180,000,000 gals/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by totalizing flow meter and/or tank level instrument, continouusly. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Permittee shall also maintain records of the total tank throughput during each consecutive 12-month period. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC vapor pressure of the oil layer <= 1.5 psia at 70F. Sample the tank oil layer once each quarter to determine the vapor pressure. In place of a tank sample, the permittee may use the quarterly sample drawn at the NP Sump (E678) or the ERB Sump (E679) to determine the vapor pressure. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the sample using ASTM-D2879-83 quarterly.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Permittee shall maintain on site for a period of no less than five years, records that specify each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total) <= 5.27 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The owner or operator shall calculate the emissions resulting from the tank oil layer each quarter during operation, using the latest version of EPA's AP-42 Chapter 7 methodology or the TANKS program. The emissions for each quarter shall be added to the emissions for the previous quarters of the calendar year. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Copies of AP-42 calculations shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**
Operating Scenario: **OS8 Stormwater diversion sump at North Pond**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR5 Ref. #'s 10 through 12 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Sample the NP Sump (E678) once each quarter. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the sample for VOC using Test Method SW-846 8260 (or equivalent).[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 0.314 lb/hr (0.392 tpy) due to material transferred to Tank 4193. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually using EPA's WATER9 software. Calculate the lb/hr and tpy emissions using the following data: i) The total material transferred to Tank 4193 (gal/yr); and ii) The average of the NP Sump quarterly analyses. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	
4	Material transfer rate to the Waste Water Treatment Plant (WWTP): Total Throughput <= 1,261,440,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 0.072 lb/hr (0.313 tpy) due to material transferred to the WWTP. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually using EPA's WATER9 software. Calculate the lb/hr and tpy emissions using the following data: i) The total material transferred to the WWTP (gal/yr); and ii) The average of the NP Sump quarterly analyses. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	VOC (Total): < 3.5 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Stormwater Retention System - North Pond**
Operating Scenario: **OS9 Stormwater diversion sump at ERB near WWTP**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR5 Ref. #'s 10 through 12 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total sump throughput <= 250,000,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sample the ERB Sump (E679) once each quarter. [N.J.A.C. 7:27-22.16(a)]	Other: Analyse the sample for VOC using Test Method SW-846 8260 (or equivalent).[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 0.0714 lb/hr (0.313 tpy) due to material transferred to Tanks 4194 and 4195. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually using EPA's WATER9 software. Calculate the lb/hr and tpy emissions using the following data: i) The total ERB Sump throughput (gal/yr); and ii) The average of the quarterly ERB Sump analyses. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	
5	VOC (Total): < 3.5 lb/hr [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed theVOC emission rate under worst case operationg conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U780 CCR F-1/2/3/4 Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx, CO and PM10 as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 2.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Hexane (n-) <= 2.94 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Cadmium compounds <= 0.0018 tons/yr (3.59 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 33.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 60.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 40.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 17.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 17.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Annual Gross Heat Input <= 3,328,800 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for any 365 consecutive days is computed by adding the gross heat input on any given day to the gross heat input in the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U780 CCR F-1/2/3/4 Heater**
Operating Scenario: **OS1 CCR Heater-normal operations**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.48 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hexane (n-) <= 0.67 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Cadmium compounds <= 0.00041 lb/hr (3.6 lb/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 7.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The CEMS shall also continuously monitor fuel flow, heating value of refinery fuel gas, gas flow, and calculate lb/hr & lb/MMBtu. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. The owner or operator shall calculate the average NOx emission rate using the data from continuous emission monitoring system for the NOx concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NOx concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions: i. Between May 1 and September 30, over each calendar day; and ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day. [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-19.18(a)5]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 0.02 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously based on a 365-day rolling average. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 7.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	CO <= 13.81 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The CEMS shall also continuously monitor fuel flow, heating value of refinery fuel gas, gas flow, and calculate lb/hr & lb/MMBtu. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 0.036 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. The CEMS shall also continuously monitor fuel flow, heating value of refinery fuel gas, gas flow, and calculate lb/hr & lb/MMBtu. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 13.81 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	CO <= 0.036 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary. [N.J.A.C. 7:27-22.16(o)]
13	SO2 <= 9.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 3.97 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule : See OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	Particulate Emissions <= 38 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
16	TSP <= 3.97 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum Gross Heat Input <= 500 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Maximum Gross Heat Input <= 380 MMBTU/hr (HHV) after throttling E1200. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U780 CCR F-1/2/3/4 Heater**
Operating Scenario: **OS2 Start-up & Shut-down of CCR Htr combusting RFG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 Ref. #'s 4 through 6 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Heater start-up shall be defined as the period of time from initiation of combustion in the main burners until the unit reactor temperature inlet reaches 900 F. This period shall not exceed 24 hours per occurrence. [N.J.A.C. 7:27-22.16(a)] [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Log the date and time combustion was initiated, the date and time the heater reached steady state operation, and the total start-up time in hours. [N.J.A.C. 7:27-22.16(o)]	None.
3	Heater shut-down shall be defined as the period of time from the initial lowering of combustion output for the purpose of taking the heater off-line to the cessation of combustion operation. This period shall not exceed 12 hours per occurrence. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor upon occurrence of event, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Log the date and time combustion lowering was initiated, the date and time combustion stopped, and the total shut-down time in hours. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 50 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 100 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on the average over the length of the cycle (start-up or shut-down cycle). [N.J.A.C. 7:27-22.16(o)]	during the start-up or shut-down cycle. CO: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on the average over the length of the cycle (start-up or shut-down cycle). [N.J.A.C. 7:27-22.16(o)]	during the start-up or shut-down cycle. NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum Gross Heat Input <= 380 MMBTU/hr (HHV) after throttling E1200. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U790 CCR F-101 Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
3	VOC (Total) <= 0.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 8.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 5.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 2.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 2.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Annual Gross Heat Input <= 438,000 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U790 CCR F-101 Heater**
Operating Scenario: **OS1 CCR Reboiler-normal operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.04 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule : See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. [N.J.A.C. 7:27-19.15(a)2]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 1.82 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 1.22 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.52 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.52 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 11 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 50 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U800 CCR F-5 Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.15 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 4.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 4.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 2.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 1.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 1.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Annual Gross Heat Input <= 236,520 MM Btu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U800 CCR F-5 Heater**
Operating Scenario: **OS1 CCR Area Reboiler #2, 27 MMBtu/hr-normal operations**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.03 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.99 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 0.66 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.29 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.29 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 8.7 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 30 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
10	Maximum Gross Heat Input <= 27 MMBTU/hr (HHV) after throttling E1202. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U802 Multi Phase Extraction Unit**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR8 for additional compliance requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The multi-phase extraction unit U802 process vent PT2005 is subject to both the requirements of 40 CFR 63 Subpart GGGGG and 40 CFR 61 Subpart FF. The permittee elects to comply with the requirements of 40 CFR 61 Subpart FF. [40 CFR 63.7885(b)(3)]	None.	None.	None.
3	U802 is a totally enclosed system (covered system) that vents through a carbon adsorption system to the atmosphere. [N.J.A.C.7:27-22.16(a)]. A 'cover" means an air-supported enclosure installed over a waste management unit. A cover may have openings necessary for operation, inspection, and maintenance of the waste management unit such as access hatches, sampling ports, and gauge wells. [40 CFR 61.341]	None.	None.	None.
4	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C. 7:27-16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
5	VOC (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	The permittee shall install and operate a minimum of two carbon adsorption units (primary & secondary) in series. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	A vapor recovery system (e.g., a carbon adsorption system) shall control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall control the benzene emissions vented to it with an efficiency of 98 weight percent or greater. [40 CFR 61.349(a)(2)(ii)] The Administrator may request at any time an owner or operator demonstrate that a control device meets the performance standards by conducting a performance test using the test methods and procedures as required in 40 CFR 61.355. [40 CFR 61.349(e)]	Other: Monitor the concentration of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately carbon breakthrough is detected. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater. As an alternative, an owner or operator may replace the carbon in the carbon at a regular predetermined time interval that is less than the carbon replacement interval determined by the maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.[40 CFR 61.354(d)].	Other: An owner or operator shall maintain the records specified at [40 CFR 61.356(f)] for the life of the control device. Record the information required at 40 CFR 61.356(j)(1) through (j)(3). The owner or operator shall maintain records of dates and times when the control device is monitored, when breakthrough is measured, and shall record the date and time then the existing carbon in the control device is replaced with fresh carbon.[40 CFR 61.356(j)(10)].	Demonstrate compliance: Once initially. An owner and operator shall demonstrate that each control device meets the stipulated performance efficiency by engineering calculations as specified at 40 CFR 61.356(f). [40 CFR 61.349(c)(1)]. Visually inspect the control device once initially and quarterly thereafter.[40 CFR 61.349(f)]. If visible defects are observed a first effort to repair the control device shall be made no later than 5 calendar days after detection and repairs completed within 15 calendar days. [40 CFR 61.349(g)]. Delays in repairs are to be handled as specified at [40 CFR 61.350(a)] and (b). Submit a report annually that summarizes all inspections during which a problem is identified, and the repairs or corrective action taken. [40 CFR 61.357(d)(8)]
8	There are no bypass lines that could divert the vent stream away from a control device. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	The closed-vent system and control device shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device. [40 CFR 61.349(b)]	None.	None.	None.
10	Monitor the pressure continuously to ensure that the pressure in the oil/water recovery drum remains below atmospheric pressure. [40 CFR 61.344(a)(1)(i)]	Other: Install, calibrate, maintain, and operate according to the manufacturer's specifications a device equipped with a continuous recorder to monitor the pressure in the unit to ensure that it is less than atmospheric pressure. [40 CFR 61.354(g)].[40 CFR 61.354(g)].	Other: Maintain records of the monitoring device and records of all periods during which the pressure in the unit is equal to or greater than atmospheric pressure.[40 CFR 61.356(m)].	Submit a report: As per the approved schedule. Submit a report quarterly to identify any period in which the pressure equal to or greater than atmospheric pressure. [40 CFR 61.357(d)(7)(v)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U810 CCR Reformate Splitter Heater**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Items GR1 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]	Other: The stack test must be conducted 60 days of the protocol approval or within 180 days after initial startup of the new or modified source, whichever comes later. If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx and CO as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with the Emission Management section (EMS) approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]
4	VOC (Total) <= 1.31 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
5	NOx (Total) <= 5.26 tons/yr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 10.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
7	SO2 <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
8	TSP <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
9	PM-10 (Total) <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H2S in excess of 162 ppmv, determined hourly on a 3-hour rolling average basis, and H2S in excess of 60 ppmv, determined daily on a 365 successive calendar day rolling average basis. [40 CFR 60.102a(g)(1)(ii)]	Other: The owner or operator of a fuel gas combustion device that elects to comply with the H2S concentration limits in [40 CFR 60.107a(a)(2)(i)], shall, install, operate, calibrate and maintain an instrument to continuously monitor and record the concentration by volume (dry basis) of H2S in the fuel gases, before being burned in any fuel gas combustion device or flare. [40 CFR 60.107a(a)(2)(i)] through[40 CFR 60.107a(a)(2)(iv)].	Other: Comply with the recordkeeping requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Keep all applicable records specified at[40 CFR 60.108a(c)(6)].	Comply with rule/regulation: As per the approved schedule. Comply with the notification and reporting requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Each owner or operator subject to an emissions limitation in [40 CFR 60.102a] shall notify the Administrator of the specific monitoring provisions in [40 CFR 60.107a] with which the owner or operator intends to comply. [40 CFR 60.108a(b)]. The owner or operator shall conduct a performance test for each fuel gas combustion device to demonstrate initial compliance with each applicable emissions limit in [40 CFR 60.102a] according to the requirements of [40 CFR 60.8]. The notification requirements of [40 CFR 60.8(d)] apply to the initial performance test. [40 CFR 60.104a(a)]. The owner or operator shall determine compliance with the applicable H2S emissions limit in [40 CFR 60.102a(g)(1)] for a fuel gas combustion device according to the test methods and procedures at [40 CFR 60.104a(j)(1)] through [40 CFR 60.104a(j)(4)]. Submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] with the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	A natural draft process heater with a rated capacity greater than 40 MMBtu/hr on a higher heating value basis, shall not emit NOx to the outside atmosphere in excess of the following limit: 0.040 lb/MMBtu higher heating value basis determined daily on a 30-day rolling average basis. [40 CFR 60.102a(g)(2)(i)]	Other: The owner or operator of a process heater subject to the NOx emissions limit in [40 CFR 60.102a(g)(2)] and electing to comply with the applicable emissions limit in [40 CFR 60.102a(g)(2)(i)(B)], shall install, operate, calibrate and maintain an instrument to continuously monitor and record the concentration (dry basis, 0-percent excess air) of NOx emissions into the atmosphere, and shall determine the F factor of the fuel gas stream no less frequently than once per day according to the monitoring requirements in paragraphs [40 CFR 60.107a(d)(1) through[40 CFR 60.107a(d)(2)].	Other: Comply with the recordkeeping requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Keep all applicable records specified at[40 CFR 60.108a(c)(6)].	Comply with rule/regulation: As per the approved schedule. Comply with the notification and reporting requirements of [40 CFR 60.7]. [40 CFR 60.108a(a)]. Each owner or operator subject to an emissions limitation in [40 CFR 60.102a] shall notify the Administrator of the specific monitoring provisions in [40 CFR 60.107a] with which the owner or operator intends to comply. [40 CFR 60.108a(b)]. The owner or operator shall conduct a performance test for each fuel gas combustion device to demonstrate initial compliance with each applicable emissions limit in [40 CFR 60.102a] according to the requirements of [40 CFR 60.8]. The notification requirements of [40 CFR 60.8(d)] apply to the initial performance test. [40 CFR 60.104a(a)]. The owner or operator shall determine compliance with the NOx emissions limits in [40 CFR 60.102a(g)] for a fuel gas combustion device according to the test methods and procedures at [40 CFR 60.104a(i)(1)] through [40 CFR 60.104a(i)(5)]. Submit an excess emissions report for all periods of excess emissions according to the requirements of [40 CFR 60.7(c)] with the information specified at [40 CFR 60.108a(d)(1)] through. [40 CFR 60.108a(d)(7)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U810 CCR Reformate Splitter Heater**
Operating Scenario: **OS1 Normal Operation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR2 Ref.#'s 1 through 3 and 5 through 15 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total) <= 0.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NOx (Total) <= 0.02 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 0.02 lb/MMBTU. [N.J.A.C. 7:27-19.7(h)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 2.34 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule ; See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]. NOTE: The owner or operator shall not burn in any fuel gas combustion device any fuel gas that contains H2S in excess of 60 ppmv, determined daily on a 365 successive calendar day rolling average basis. [40 CFR 60.102a(g)(1)(ii)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-10 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Particulate Emissions <= 12 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 60 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity[N.J.A.C. 7:27-22.16(o)].	None.	None.
12	Annual Gross Heat Input <= 525, 600 MMBtu per any consecutive 12 month period. The permittee shall use refinery fuel gas as fuel. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. Monitored by a system that continuously monitors both fuel flow and heating value of refinery fuel gas and calculates hourly heat input. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The gross heat input for any given day is the total of 24 readings taken once per hour. The gross heat input for a given month is the total of the daily heat inputs for the month. The Annual Gross Heat Input for any 12 consecutive months is computed by adding the gross heat input for any month to the gross heat input for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U850 Fugitive Landfill Emissions (ten vents)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with N.J.A.C. 7:27-16.[N.J.A.C. 7:27-16.16(g)1ii].	Other: Maintain records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Total design capacity of the landfill = 81.48 megagrams. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U900 Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Table 6 of 40 CFR 63 Subpart CC for General Provisions applicable to Subpart CC. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure <= 13.0 psia at 70F [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) Date of VOC transfer into the tank, ii) Name the VOC transferred, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 350 tons/yr. Annual emission limit for all tanks in U900. Includes emissions from tank storage, tank cleaning, roof landing, tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions) for the storage, tank cleaning, roof landing and tank field dumping of each storage tank. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U900 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Phenol <= 0.4 tons/yr. Annual emission limit for all tanks in U900. Includes emissions from tank storage, tank cleaning, roof landing, tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	Phenol: Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions) for the storage, tank cleaning, roof landing and tank field dumping of each storage tank. [N.J.A.C. 7:27-22.16(o)]	Phenol: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U900 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
6	Hydrogen sulfide <= 0.872 tons/yr. Annual emission limit for all tanks in U900. Includes emissions from tank storage, tank cleaning, roof landing, tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions) for the storage, tank cleaning, roof landing and tank field dumping of each storage tank. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U900 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
7	Ammonia <= 0.872 tons/yr. Annual emission limit for all tanks in U900. Includes emissions from tank storage, tank cleaning, roof landing, tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions) for the storage, tank cleaning, roof landing and tank field dumping of each storage tank. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U900 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	External floating roof tanks in Range III that store any VOC with vapor pressure three pounds per square inch absolute or greater at standard conditions shall be equipped with a domed roof before the tank is refilled after the first time the tank is degassed after May 19, 2009, but no later than May 1, 2020. ***This requirement was substituted by the state-only facility specific requirements pursuant to N.J.A.C. 7:27-16.17. The Permittee will need to submit an administrative amendment application to remove this requirement once the source specific SIP revision is approved by EPA*** [N.J.A.C. 7:27-16.2(l)4]	None.	None.	None.
9	As per Paulsboro Refining Company's Alternative VOC control Plan, the following external floating roof storage tanks storing material greater than 3.0 pounds per square inch shall be taken out of service for doming per the dates specified below: Tank 724 (E102) - 12/31/2014 Tank 2173 (E194)) - 12/31/2019 Tank 1063 (E128) - 12/31/2021 Tank 1064 (E129) - 12/31/2018 Tank 1065 (E130) - 12/31/2026 Tank 1066 (E131) - 12/31/2028 Tank 1115 (E132) - 12/31/2017 Tank 1116 (E133) - 12/31/2023 Tank 1319 (E141) - 12/31/2014 Tank 1320 (E142) - 12/31/2025 ***This is a state-only facility specific applicable requirement pursuant to N.J.A.C.7:27-16.17. This requirement becomes federally enforceable upon the effective date of EPA's approval on NJDEP's source specific SIP revision as published in the Federal Register*** [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The Alternative VOC Control Plan requirements will expire in ten years from the date of approval of modification BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit a plan: As per the approved schedule. The permittee shall submit a new Alternative VOC Control Plan application at least one year prior to the expiration of the existing Alternative VOC Control Plan requirements. [N.J.A.C. 7:27-22.16(o)]
11	As per Paulsboro's Alternative VOC Control Plan application, the following tanks storing materials greater than 3.0 pounds per square inch are exempt from doming requirement of N.J.A.C. 7:27-16.2(l)4: Tank 725 (E103) Tank 802 (E107) Tank 1023 (E122) Tank 1027 (E125) Tank 2869 (E217) Tank 2940 (E220) Tank 2941 (E221) Tank 3174 (E230) Tank S-80 (E291) Tank S-81 (E292) Tank S-82 (E293) ***This is a state-only facility specific applicable requirement pursuant to N.J.A.C.7:27-16.17. This requirement becomes federally enforceable upon the effective date of EPA's approval on NJDEP's source specific SIP revision as published in the Federal Register*** [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U900 Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)**

Operating Scenario: **OS1 E96 / EFRT 640 / 412,000 gal cap , OS2 E97 / EFRT 641 / 412,000 gal cap, OS3 E99 / EFRT 692 / 392,000 gal cap, OS4 E100 / EFRT 693 / 392,000 gal cap, OS5 E102 / EFRT 724 / 844,000 gal cap, OS6 E103 / EFRT 725 / 806,000 gal cap, OS7 E107 / EFRT 802 / 1,050,000 gal cap, OS8 E122 / EFRT 1023 / 3,264,000 gal cap, OS9 E125 / EFRT 1027 / 270,000 gal cap, OS11 E128 / EFRT 1063 / 3,112,000 gal cap, OS12 E129 / EFRT 1064 / 3,098,000 gal cap, OS13 E130 / EFRT 1065 / 3,041,000 gal cap, OS14 E131 / EFRT 1066 / 3,112,000 gal cap, OS15 E132 / domed EFRT 1115 / 3,203,000 gal cap, OS16 E133 / EFRT 1116 / 3,260,000 gal cap, OS17 E141 / EFRT 1319 / 84,000 gal cap, OS18 E142 / EFRT 1320 / 84,000 gal cap, OS19 E194 / EFRT 2173 / 476,000 gal cap, OS20 E217 / EFRT 2869 / 3,360,000 gal cap, OS21 E220 / EFRT 2940 / 6,300,000 gal cap, OS22 E221 / EFRT 2941 / 6,678,000 gal cap, OS23 E227 / IFRT 3018 / 2,646,000 gal, OS24 E230 / EFRT 3174 / 4,240,000 gal cap, OS25 E237 / EFRT 3577 / 1,800,000 gal cap, OS26 E238 / EFRT 3592 / 1,460,000 gal cap, OS27 E285 / EFRT S-74 / 12,600,000 gal cap, OS28 E286 / EFRT S-75 / 12,600,000 gal cap, OS29 E287 / EFRT S-76 / 12,600,000 gal cap, OS30 E288 / EFRT S-77 / 12,600,000 gal cap, OS31 E289 / EFRT S-78 / 12,600,000 gal cap, OS32 E290 / EFRT S-79 / 28,350,000 gal cap, OS33 E291 / EFRT S-80 / 6,300,000 gal cap, OS34 E292 / EFRT S-81 / 6,300,000 gal cap, OS35 E293 / EFRT S-82 / 1,700,000 gal cap**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR4 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	See Subject Item GR6 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	See subject GR9 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	An external floating roof tank (EFRT) in Range III storing a VOC having a vapor pressure greater than or equal to 3 psia at standard conditions, shall be equipped with a domed roof before the tank is refilled after the first time the tank is degassed after May 19, 2009, but no later than May 1, 2020 if the tank was in existence on May 18, 2009. An EFRT that contains more than 97 percent by volume crude oil shall be exempt from the above requirement. [7:27-16.2(f)4] [N.J.A.C. 7:27-16.2(l)4]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 440 tons/yr. (Annual emission limit for all tanks included in U901). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U901 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
2	All stationary above ground storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1]	None.	None.	None.
3	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.	Recordkeeping by manual logging of parameter per change of material. Manually log the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-16.2(k)] &. [N.J.A.C. 7:27-22.16(o)]	None.
4	No person shall cause, suffer, allow or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
5	Maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: Maintain readily accessible records.[N.J.A.C. 7:27-16.22(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into any stationary storage tank having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless the storage tank is equipped with and operating a conservation vent adjusted to remain closed during transfer. [N.J.A.C. 7:27-16.4(c)3ii]	None.	None.	None.
7	No person shall cause, suffer, allow, or permit any transfer of applicable VOC if any components of the delivery vessel designed for preventing the release of applicable VOC vapors are not installed and operating as designed. [N.J.A.C. 7:27-16.4(k)]	None.	None.	None.
8	Any loading or unloading transfer operations must cease immediately if the delivery vessel being loaded or unloaded, any control apparatus or other equipment serving the transfer operation has a leak that results in a concentration of VOC greater than or equal to 100 percent of the lower explosive limit of propane when measured at a distance within 1.0 inch (2.54 centimeters) of the source. [N.J.A.C. 7:27-16.4(k)1i]	Other: Visual determination of any leaks shall be conducted during the transfer operation. If any visible leaks (fumes) are detected, the owner or operator shall verify compliance with a portable instrument.[N.J.A.C. 7:27-16.4(k)1i].	Recordkeeping by manual logging of parameter upon occurrence of event. Manually log each instance of a leak in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-22.16(o)]	None.
9	Any loading or unloading transfer operations must cease immediately if the delivery vessel being loaded or unloaded, any control apparatus or other equipment serving the transfer operation has a leak a liquid leak. [N.J.A.C. 7:27-16.4(k)1ii]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination (before each transfer). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter upon occurrence of event. The permittee shall record each instance of detection of a liquid leak in the delivery vessel in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-22.16(o)]	None.
10	Any loading or unloading transfer operations must cease immediately if the transfer results or would result in a liquid leak of applicable VOC. [N.J.A.C. 7:27-16.4(k)2]	None.	None.	None.
11	The following tanks shall be painted white by Dec. 31, 2015: S-45, S-46, S-48, S-51, S-54, S-57, S-58, S-60, S-61, S-62, S-63, S-64, S-65, S-66, S-67, S-68 and S-70. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	For an uncontrolled fixed roof storage vessel that commenced construction on or before June 30, 2014, and that meets the February 1, 2016 definition of a Group 1 Storage Vessel at 40 CFR 63.641, the requirements at 40 CFR 63.1062 will not apply until the next time the storage vessel is completely emptied and degassed, or January 30, 2026, whichever occurs first. [40 CFR 63.660(d)]	Other: An owner or operator may use good engineering judgment or test results to determine the stored liquid weight percent total organic HAP for purposes of group determination.[40 CFR 63.660(a)(1)].	Other: Keep records of data, assumptions, and procedures used in the group determination.[40 CFR 63.660(a)(1)].	Comply with the requirement: Upon occurrence of event. When an owner or operator and the Administrator do not agree on whether the annual average weight percent organic HAP in the stored liquid is above or below 4 percent for a storage vessel at an existing source, an appropriate method (based on the type of liquid stored) as published by EPA or a consensus-based standards organization documented at 40 CFR 63.660(a)(2), shall be used. [40 CFR 63.660(a)(2)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS1 E56 - Tk 1 - 205,800 gal cap - NA VOC, OS2 E57 - Tk 2 - 400,000 gal cap - NA VOC, OS3 E58 - Tk 3 - 400,000 gal cap - NA VOC, OS4 E59 - Tk 4 - 400,000 gal cap - NA VOC, OS5 E60 - Tk 5 - 400,000 gal cap - NA VOC, OS6 E61 - Tk 8 - 303,000 gal cap - NA VOC, OS7 E62 - Tk 9 - 300,000 gal cap - NA VOC, OS12 E67 - Tk 93 - 1,470,000 gal cap - NA VOC, OS13 E68 - Tk 218 - 199,000 gal cap - NA VOC, OS14 E69 - Tk 219 - 199,000 gal cap - NA VOC, OS15 E70 - Tk 335 - 255,000 gal cap - NA VOC, OS16 E71 - Tk 368 - 2,226,000 gal cap - NA VOC, OS17 E72 - Tk 385 - 250,000 gal cap - NA VOC, OS18 E73 - Tk 386 - 250,000 gal cap - NA VOC, OS19 E74 - Tk 391 - 257,000 gal cap - NA VOC, OS20 E75 - Tk 392 - 257,000 gal cap - NA VOC, OS21 E76 - Tk 397 - 257,000 gal cap - NA VOC, OS22 E77 - Tk 398 - 2,230,000 gal cap - NA VOC, OS24 E79 - Tk 448 - 600,000 gal cap - NA VOC, OS25 E80 - Tk 449 - 600,000 gal cap - NA VOC, OS26 E81 - Tank 457 - 399,000 gal cap - NA VOC, OS29 E84 - Tk 510 - 413,000 gal cap - NA VOC, OS31 E86 - Tk 558 - 1,300,000 gal cap - NA VOC, OS33 E89 - Tk 593 - 1,530,000 gal cap - NA VOC, OS34 E90 - Tk 594 - 2,200,000 gal cap - NA VOC, OS35 E91 - Tk 595 - 2,200,000 gal cap - NA VOC, OS36 E92 - Tk 634 - 410,000 gal cap - NA VOC, OS37 E93 - Tk 635 - 410,000 gal cap - NA VOC, OS38 E94 - Tk 636 - 410,000 gal cap - NA VOC, OS39 E95 - Tk 639 - 400,000 gal cap - NA VOC, OS40 E98 - Tk 670 - 2,940,000 gal cap - NA VOC, OS41 E101 - Tk 708 - 114,000 gal cap - NA VOC, OS42 E104 - Tk 756 - 250,000 gal cap - NA VOC, OS43 E105 - Tk 766 - 500,000 gal cap - NA VOC, OS44 E106 - Tk 767 - 490,000 gal cap - NA VOC, OS45 E109 - Tk 839 - 3,200,000 gal cap - NA VOC, OS46 E110 - Tk 840 - 3,250,000 gal cap - NA VOC, OS47 E112 - Tk 866 - 490,000 gal cap - NA VOC, OS48 E113 - Tk 883 - 790,000 gal - NA VOC, OS49 E114 - Tk 935 - 3,250,000 gal cap - NA VOC, OS50 E115 -Tk 936 - 3,250,000 gal cap - NA VOC, OS51 E116 - Tk 937 - 3,200,000 gal cap - NA VOC, OS52 E117 - Tk 939 - 940,000 gal cap - NA VOC, OS53 E118 - Tk 1000 - 3,200,000 gal cap - NA VOC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than 0.02 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS8 E63 - VFR Tk 41- 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F, OS9 E64 - Tk 42 - 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F, OS11 E66 - Tk 54 - 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F, OS28 E83 - Tk 485 - 85,000 gal cap - A VOC - VP <= 3.5 psia @ 70F, OS32 E23 - Tk 562 - 392,000 gal cap - caustic + A VOC - VP <= 1.4 psia @ 70F, OS65 E140 - Tk 1318 - 82,000 gal cap - A VOC - VP <= 6.5 psia @ 70F, OS127 E211 - Tk 2816 - 44 Mgal cap - A VOC - VP <= 7.5 psia at 70 F, OS128 E212 - Tk 2817 - 44 Mgal cap - A VOC - VP <= 7.5 psia at 70 F, OS130 E214 - Tk 2840 - 88 Mgal cap - A VOC - VP <= 3.5 psia at 70 F, OS131 E215 - Tk 2841 - 88 Mgal cap - A VOC - VP <= 3.5 psia at 70 F, OS132 E216 - Tk 2842 - 88 Mgal cap - A VOC - VP - <= 3.5 psia at 70 F, OS161 E261 - Tk S-38 - 2,540 Mgal cap - A VOC - VP <= 0.08 psia @ 70F (NESHAPS FF carbon canister)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR6 Ref.#'s 2 through 4 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to the value specified in the operating scenario. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.
4	Storage tank shall be equipped with a conservation vent as specified in Table 2A, Range II. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
5	Gauging / sampling systems shall be vapor-tight except when gauging / sampling in progress. [N.J.A.C. 7:27-16.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS10 E65 - Tk 53 - 412,000 gal cap - A VOC - VP <= 0.5 psia @ 70F, OS23 E78 - Tk 412 - 260,000 gal cap - A VOC - VP <= 1.0 psia @ 70F, OS30 E85 - Tk 557 - 612,000 gal cap - A VOC - VP <= 0.06 psia @ 70F, OS63 E138 - Tk 1248 - 27,700 gal cap - A VOC - VP <= 9.5 psia @ 70 F, OS64 E139 - Tk 1249 - 27,700 gal cap - A VOC - VP <= 9.5 psia @ 70 F, OS74 E151 - Tk 1883 - 40,800 gal cap - A VOC - VP <= 0.5 psia @ 70F, OS85 E162 - Tk 1912 - 612,000 gal cap - A VOC - VP <= 0.06 psia at 70 F, OS86 E168 - Tk 1929 - 31,700 gal cap - A VOC - VP <= 0.5 psia @ 70F, OS87 E169 - Tk 1930 - 31,700 gal cap - A VOC - VP <= 0.5 psia @ 70F, OS115 E301 - Tk 2705 - 4,800 gal cap - A VOC - VP <= 13.0 psia @ 70F, OS125 E209 - Tk 2807 - 3,150 Mgal cap - A VOC - VP <= 0.06 psia at 70 F, OS126 E210 - Tk 2808 - 3,150 Mgal cap - A VOC - VP <= 0.06 psia at 70 F, OS133 E219 - Tk 2910 - 2,100 Mgal cap - A VOC - VP <= 0.08 psia at 70 F, OS137 E229 - Tk 3042 - 29 Mgal cap - A VOC - VP <= 9.5 psia at 70 F, OS138 E231 - Tk 3211- 13,800 gal cap - A VOC - VP <= 11.5 psia at 70 F, OS139 E232 - Tk 3244 - 20 Mgal cap - A VOC - VP <= 10.5 psia at 70 F, OS140 E233 - Tk 3432 - 110 Mgal cap - A VOC - VP <= 0.5 psia @ 70F, OS141 E234 - Tk 3457 - 110 Mgal cap - A VOC - VP <= 0.5 psia @ 70F, OS145 E239 - Tk 3734 - 2,800 gal cap - A VOC - VP <= 13 psia @ 70F, OS150 E250 - Tk S-3 - 2,140 Mgal cap - A VOC - VP <= 0.06 psia @ 70F, OS155 E255 - Tk S-32 - 2,562 Mgal cap - A VOC - VP <= 0.06 psia @ 70F, OS156 E256 - Tk S-33 - 2,667 Mgal cap - A VOC - VP <= 0.06 psia @ 70F, OS159 E259 - Tk S-36 - 2,096 Mgal cap - A VOC - VP <= 0.06 psia @ 70F**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to the value specified in the operating scenario. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS27 E82 - Tk 481 - 125,000 gal cap - A VOC - VP <= 2.1 psia @ 70F, OS66 E143 - Tk 1321 - 80,000 gal cap - A VOC - VP <= 3.5 psia @ 70F, OS134 E223 - Tk 2949 - 84 Mgal cap - A VOC - VP <= 3.0 psia at 70 F, OS135 E224 - Tk 2950 - 84 Mgal cap - A VOC - VP <= 3.0 psia at 70 F, OS136 E226 - Tk 3001 - 42 Mgal cap - A VOC - VP <= 6.0 psia at 70 F**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR6 Ref.#'s 2 through 4 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to the value specified in the operating scenario. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS54 E120 - Tk 1021 - 924,000 gal cap - NA VOC, OS55 E121 - Tk 1022 - 924,000 gal cap - NA VOC, OS56 E123 - Tk 1024 - 3,150,000 gal cap - NA VOC, OS57 E124 - Tk 1025 - 3,150,000 gal cap - NA VOC, OS58 E126 - Tk 1028 - 1,500,000 gal cap - NA VOC, OS59 E134 - Tk 1117 - 3,150,000 gal cap - NA VOC, OS60 E135 - Tk 1118 - 550,000 gal cap - NA VOC, OS61 E136 - Tk 1131 - 350,000 gal cap - NA VOC, OS62 E137 - Tk 1132 - 350,000 gal cap - NA VOC, OS67 E144 - Tk 1425 - 117,300 gal cap - NA VOC, OS68 E145 - Tk 1426 - 100,800 gal cap - NA VOC, OS69 E146 - Tk 1427 - 100,800 gal cap - NA VOC, OS70 E147 - Tk 1428 - 100,800 gal cap - NA VOC, OS71 E148 - Tk 1474 - 2,880,000 gal cap - NA VOC, OS72 E149 - Tk 1536 - 330,000 gal cap - NA VOC, OS73 E150 - Tk 1537 - 330,000 gal cap - NA VOC, OS75 E152 - Tk 1886 - 420,000 gal cap - NA VOC, OS76 E153 - Tk 1887 - 420,000 gal cap NA VOC, OS77 E154 - Tk 1888 - 420,000 gal cap - NA VOC, OS78 E155 - Tk 1889 - 420,000 gal cap - NA VOC, OS79 E156 - Tk 1890 - 420,000 gal cap - NA VOC, OS80 E157 - Tk 1891 - 475,000 gal cap - NA VOC, OS81 E158 - Tk 1892 - 475,000 gal cap - NA VOC, OS82 E159 - Tk 1898 - 476,000 gal cap - NA VOC, OS83 E160 - Tk 1899 - 476,000 gal cap - NA VOC, OS84 E161 - Tk 1911 - 798,000 gal cap - NA VOC, OS88 E170 - Tk 1941 - 695,000 gal cap - NA VOC, OS89 E171 - Tk 1942 - 695,000 gal cap - NA VOC, OS90 E172 - Tk 1943 - 695,000 gal cap - NA VOC, OS91 E173 - Tk 1944 - 695,000 gal cap - NA VOC, OS92 E174 - Tk 1945 - 695,000 gal cap - NA VOC, OS93 E175 - Tk 1946 - 695,000 gal cap - NA VOC, OS94 E176 - Tk 1947 - 695,000 gal cap - NA VOC, OS98 E180 - Tk 1962 - 245,000 gal cap - NA VOC, OS99 E181 - Tk 1963 - 245,000 gal cap - NA VOC, OS100 E182 - Tk 1964 - 245,000 gal cap - NA VOC, OS101 E183 - Tk 1965 - 483,000 gal cap - NA VOC, OS102 E184 - Tk 1969 - 5,900,000 gal cap - NA VOC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than 0.02 psia at 70F and 1 atmosphere. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) Date of VOC transfer into the tank, ii) Name the VOC transferred, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS103 E185 - Tk 1970 - 5,700 Mgal cap - NA VOC, OS104 E186 - Tk 2014 - 37,800 gal cap - NA VOC, OS105 E187 - Tk 2015 - 37,800 gal cap - NA VOC, OS106 E188 - Tk 2016 - 37,800 gal cap - NA VOC, OS107 E189 - Tk 2017 - 37,800 gal cap - NA VOC, OS108 E190 - Tk 2041 - 800 Mgal cap - NA VOC, OS109 E191 - Tk 2042 - 800 Mgal cap - NA VOC, OS110 E192 - Tk 2043 - 800 Mgal cap - NA VOC, OS111 E193 - Tk 2044 - 800 Mgal cap - NA VOC, OS113 E198 - Tk 2503 - 4,160 Mgal cap - NA VOC, OS114 E199 - Tk 2504 - 4,160 Mgal cap - NA VOC, OS123 E207 - Tk 2799 - 1,260 Mgal cap - NA VOC, OS124 E208 - Tk 2800 - 1,260 Mgal cap - NA VOC, OS147 E240 - Tk 32F13 - 274 Mgal cap - NA VOC, OS149 E249 - Tk S-1 - 2,184 Mgal cap - NA VOC, OS151 E513 - Tk S-7 - 2,200 Mgal cap - NA VOC, OS152 E251 - Tk S-8 - 2,250 Mgal cap - NA VOC, OS157 E257 - Tk S-34 - 1,457 Mgal cap - NA VOC, OS158 E258 - Tk S-35 - 2,150 Mgal cap - NA VOC, OS160 E260 - Tk S-37 - 2,500 Mgal cap - NA VOC, OS162 E262 - Tk S-45 - 2,610 Mgal cap - NA VOC, OS163 E263 - Tk S-46 - 2,630 Mgal cap - NA VOC, OS164 E264 - Tk S-48 - 3,225 Mgal cap - NA VOC, OS165 E265 - Tk S-49 - 3,217 Mgal cap - NA VOC, OS166 E266 - Tk S-50 - 3,190 Mgal cap - NA VOC, OS167 E267 - Tk S-51 - 3,225 Mgal cap - NA VOC, OS168 E268 - Tk S-52 - 3,175 Mgal cap - NA VOC, OS169 E269 - Tk S-53 - 3,230 Mgal cap - NA VOC, OS170 E270 - Tk S-54 - 3,220 Mgal cap - NA VOC, OS171 E271 - Tk S-55 - 3,280 Mgal cap - NA VOC, OS172 E272 - Tk S-57 - 3,270 Mgal cap - NA VOC, OS173 E273 - Tk S-58 - 3,210 Mgal cap - NA VOC, OS174 E274 - Tk S-59 - 3,180 Mgal cap - NA VOC, OS175 E275 - Tk S-60 - 3,210 Mgal cap - NA VOC, OS176 E276 - Tk S-61 - 3,200 Mgal cap - NA VOC, OS177 E277 - Tk S-62 - 3,190 Mgal cap - NA VOC, OS179 E279 - Tk S-64 - 3,200 Mgal cap - NA VOC, OS180 E280 - Tk S-65 - 3,230 Mgal cap - NA VOC, OS181 E281 - Tk S-66 - 3,180 Mgal voc - NA VOC, OS182 E282 - Tk S-67 - 3,180 Mgal cap - NA VOC, OS183 E283 - Tk S-68 - 3,200 Mgal cap - NA VOC, OS184 E284 - Tk S-70 - 3,230 Mgal cap - NA VOC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than 0.02 psia at 70F and 1 atmosphere. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) Date of VOC transfer into the tank, ii) Name the VOC transferred, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS112 E195 - Tk 2407 - 14 Mgal cap - A VOC - VP <= 13.0 psia @ 70F, OS142 E294 - Tk 3551 - 14,800 gal cap - A VOC - VP <= 13 psia @ 70F, OS143 E295 - Tk 3552 - 14,800 gal cap - A VOC - VP <= 13 psia @ 70F, OS144 E296 - Tk 3634 - 10,100 gal cap - A VOC - VP <= 13 psia @ 70F, OS146 E241 - Tk 3187 (51F1) - 25,200 gal cap - A VOC - VP <= 10.5 psia @ 70F, OS148 E242 - Tk 3771 (51F2) - 25,200 gal cap - A VOC - VP <= 10.5 psia @ 70F**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to the value specified in the operating scenario. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.
3	Storage tank shall be equipped with a conservation vent as specified in Table 2A, Range II. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
4	Gauging and/or sampling systems shall be vapor-tight except when gauging or sampling is taking place. [N.J.A.C. 7:27-16.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS185 E297 - VFR Tnk 3157 - 45,000 gal cap - Diethanolamine + H2S + H2O + VOC VP <= 6.0 psia @ 70F (N2 blanketed)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR6 Ref.#'s 2 through 4 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Storage tank contents limited to a mixture of diethanolamine, hydrogen sulfide, water and VOC with a vapor pressure less than 6.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by laboratory analysis or equivalent methodology once initially and per change of material.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	None.
3	The tank shall be "N2 blanketed" when in service. [N.J.A.C. 7:27-22.16(a)]	Other: Monotored by a system that pressurizes the tank vapor space and maintains the pressure.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	Sulfur Compounds other than S02, S03 and H2S04 <= 0.3 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period and at any instant. [N.J.A.C. 7:27-7.2(i)] and. [N.J.A.C. 7:27-7.2(r)]	None.	None.	None.
5	Permittee's annual throughput limit <= 300 MMgallons per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging or product metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record throughput each time material is added to the tank along with the year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U901 Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's**

Operating Scenario: **OS186 E298 - VFR Tnk 3169 - 13,500 gal cap - Diethanolamine + H2S + H2O + VOC VP <= 6.0 psia @ 70F (N2 blanketed)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to a mixture of diethanolamine, hydrogen sulfide, water and VOC with a vapor pressure less than 6.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by laboratory analysis or equivalent methodology once initially and per change of material.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	None.
2	The tank shall be "N2 blanketed" when in service. [N.J.A.C. 7:27-22.16(a)]	Other: Monotored by a system that pressurizes the tank vapor space and maintains the pressure.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	Sulfur Compounds other than S02, S03 and H2S04 <= 0.3 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period and at any instant. [N.J.A.C. 7:27-7.2(i)] and. [N.J.A.C. 7:27-7.2(r)]	None.	None.	None.
4	Permittee's annual throughput limit <= 300 MMgallons per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging or product metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record throughput each time material is added to the tank along with the year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U902 Vert fixed roof tnks, storing applicable VOC, subject to NESHAPS FF/ NSPS QQQ, equipped with closed vent systems + carbon canisters**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 39 tons/yr. (Annual emission limit for all tanks included in U902). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. Calculations of annual emissions shall be made as specified in EPA's AP-42 (Tanks 4.0 or subsequent versions). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Manually log the tons per year of emissions for each tank and the total for U902 in a permanently bound logbook or electronically (computer, DAS or electronic operating system). Copies of AP-42 calculations for each tank shall be maintained at the facility for five years. [N.J.A.C. 7:27-22.16(o)]	None.
2	All stationary above ground storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1]	None.	None.	None.
3	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.	Recordkeeping by manual logging of parameter per change of material. Manually log the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-16.2(k)] &. [N.J.A.C. 7:27-22.16(o)]	None.
4	No person shall cause, suffer, allow or permit the transfer of any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
5	Maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: Maintain readily accessible records.[N.J.A.C. 7:27-16.22(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into any stationary storage tank having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless the storage tank is equipped with and operating a conservation vent adjusted to remain closed during transfer. [N.J.A.C. 7:27-16.4(c)3ii]	None.	None.	None.
7	No person shall cause, suffer, allow, or permit any transfer of applicable VOC if any components of the delivery vessel designed for preventing the release of applicable VOC vapors are not installed and operating as designed. [N.J.A.C. 7:27-16.4(k)]	None.	None.	None.
8	Any loading or unloading transfer operations must cease immediately if the delivery vessel being loaded or unloaded, any control apparatus or other equipment serving the transfer operation has a leak that results in a concentration of VOC greater than or equal to 100 percent of the lower explosive limit of propane when measured at a distance within 1.0 inch (2.54 centimeters) of the source. [N.J.A.C. 7:27-16.4(k)1i]	Other: Visual determination of any leaks shall be conducted during the transfer operation. If any visible leaks (fumes) are detected, the owner or operator shall verify compliance with a portable instrument.[N.J.A.C. 7:27-16.4(k)1i].	Recordkeeping by manual logging of parameter upon occurrence of event. Manually log each instance of a leak in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-22.16(o)]	None.
9	Any loading or unloading transfer operations must cease immediately if the delivery vessel being loaded or unloaded, any control apparatus or other equipment serving the transfer operation has a leak a liquid leak. [N.J.A.C. 7:27-16.4(k)1ii]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination (before each transfer). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter upon occurrence of event. The permittee shall record each instance of detection of a liquid leak in the delivery vessel in a permanently bound logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-22.16(o)]	None.
10	Any loading or unloading transfer operations must cease immediately if the transfer results or would result in a liquid leak of applicable VOC. [N.J.A.C. 7:27-16.4(k)2]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U902 Vert fixed roof tnks, storing applicable VOC, subject to NESHAPS FF/ NSPS QQQ, equipped with closed vent systems + carbon canisters**

Operating Scenario: **OS1 E164 - Tnk 1917 - 235 Mgal cap - VOC VP <= 1.2 psia @70F, OS2 E165 - Tnk 1918 - 235 Mgal cap - VOC VP <= 1.2 psia @70F, OS3 E166 - Tnk 1919 - 235 Mgal cap - VOC VP <= 1.2 psia @70F, OS4 E167 - Tnk 1920 - 235 Mgal cap - VOC VP <= 1.2 psia @70F, OS5 E196 - Tnk 2417 (AG9) - 80 Mgal cap - VOC VP <= 3.5 psia @ 70F, OS6 E197 - Tnk 2418 (AG10) - 80 Mgal cap - VOC VP <= 3.5 psia @ 70F, OS7 E218 - Tnk 2885 (F4) - 126 Mgal cap - VOC VP <= 2.1 psia @ 70F, OS8 E225 - Tnk 2983 (F4A) - 126 Mgal cap - VOC VP <= 2.1 psia @ 70F**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Subject Item GR6 Ref.#'s 2 through 4 for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Storage tank contents limited to petroleum hydrocarbon liquid, that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to the value specified in the operating scenario. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by certified lab analysis once for each petroleum hydrocarbon liquid (product code) stored in the tank.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Record the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a form readily available for inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Permittee shall maintain a record of tank contents and throughput. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging and/or metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the: i) The VOC transferred into the tank, ii) Date(s) of VOC transfer into the tank, iii) Vapor pressure of the VOC at standard conditions, iv) Quantity (gal) of VOC transferred into the tank, and v) Total quantity transferred for the month. [N.J.A.C. 7:27-22.16(o)]	None.
4	Storage tank is equipped with a vapor control system (carbon canisters). [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
5	Gauging and/or sampling systems shall be vapor-tight except when gauging or sampling is taking place. [N.J.A.C. 7:27-16.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. [40 CFR 61.343(a)(1)]	None.	None.	None.
7	The fixed roof and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background. [40 CFR 61.343(a)(1)(iA)]	Other: Monitored once initially and thereafter at least once per year by the methods specified at 40 CFR 61.355(h).[40 CFR 61.343(a)(1)(iA)].	Other: Keep a record for each test of no detectable emissions. The record shall include the following information: date the test is performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured, then the record shall also include the waste management unit, control equipment, and leak interface location, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.[40 CFR 61.356(h)].	Repair equipment: As per the approved schedule. When detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. [40 CFR 61.343(d)]. Delay of repair of facilities or units will be allowed if the repair is technically impossible without a complete or partial facility or unit shutdown. Repair of such equipment shall occur before the end of the next facility or unit shutdown. [40 CFR 61.350(a)] and (b). Submit annual reports to the Administrator that summarizes all inspections conducted during which detectable emissions were measured or a problem (such as a broken seal) was identified, including repairs or corrective action taken. [40 CFR 61.357(d)(8)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair. [40 CFR 61.343(a)(1)(iB)]	Other: Each fixed-roof, seal, access door, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly.[40 CFR 61.343(c)].	Other: Keep a record for each visual inspection that identifies a problem which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.[40 CFR 61.356(g)].	Repair equipment: As per the approved schedule. When a broken seal or gasket or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. [40 CFR 61.343(d)]. Delay of repair of facilities or units will be allowed if the repair is technically impossible without a complete or partial facility or unit shutdown. Repair of such equipment shall occur before the end of the next facility or unit shutdown. [40 CFR 61.350(a)] and (b). Submit annual reports to the Administrator that summarizes all inspections conducted during which detectable emissions were measured or a problem (such as a broken seal) was identified, including repairs or corrective action taken. [40 CFR 61.357(d)(8)]
9	The closed-vent system and control device shall be designed and operated in accordance with the requirements of 40 CFR 61.349. [40 CFR 61.343(a)(1)(ii)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The closed-vent system shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background. [40 CFR 61.349(a)(1)(i)]	Other: Monitored once initially and thereafter at least once per year by the methods at 40 CFR 61.355(h).[40 CFR 61.349(a)(1)(i)].	Other: Keep a record for each test of no detectable emissions. The record shall include the following information: date the test is performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured, then the record shall also include the waste management unit, control equipment, and leak interface location, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.[40 CFR 61.356(h)].	Repair equipment: As per the approved schedule If detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than 5 calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected. [40 CFR 61.349(g)]. Delay of repair of facilities or units will be allowed if the repair is technically impossible without a complete or partial facility or unit shutdown. Repair of such equipment shall occur before the end of the next facility or unit shutdown. [40 CFR 61.350(a)] and (b). Submit annual reports to the Administrator that summarizes all inspections conducted during which detectable emissions were measured or a problem (such as a broken seal) was identified, including repairs or corrective action taken. [40 CFR 61.357(d)(8)]
11	Vent systems that contain a bypass line that could divert the vent stream away from a control device shall be secured by a valve in the closed position with a car-seal or a lock-and-key type configuration. [40 CFR 61.349(a)(1)(ii)]	Other: Visually inspect the bypass line valve at least once every month, checking the position of the valve and the condition of the car-seal to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.[40 CFR 61.354(f)(1)].	Other: Keep a record for each visual inspection that identifies a problem which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed. [40 CFR 61.356(g)]. Record all periods and durations when any valve car-seal or closure mechanism is broken or the by-pass line valve position has changed.[40 CFR 61.356(j)(3)(i)].	Submit a report: At no specified schedule. Submit annual reports to the Administrator that summarizes all inspections conducted during which detectable emissions were measured or a problem (such as a broken seal) was identified, including repairs or corrective action taken. [40 CFR 61.357(d)(8)]
12	All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [40 CFR 61.349(a)(1)(iii)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	One or more devices which vent directly to the atmosphere may be used in a closed vent system provided that each device remains in a closed, sealed position during normal operation except when the device needs to be opened to prevent physical damage or permanent deformation of the closed-vent system resulting from malfunction of the unit. [40 CFR 60.349(a)(1)(iv)]	None.	None.	None.
14	A vapor recovery system (e.g., a carbon adsorption system) shall recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater. [40 CFR 61.340(a)(2)(ii)]. Based on the EPA Consent Decree SA-05-CA-0569 dated 6/16/2005 Section X.E, primary and secondary carbon canisters shall be installed in series by no later than June 30, 2005. [N.J.A.C. 7:27-22.16(a)]	Other: An owner and operator shall demonstrate that each control device achieves the appropriate control by using engineering calculations in accordance with 40 CFR 61.356(f), or performance tests conducted using the test methods and procedures at 40 CFR 61.355. [30 CFR 61.349(c)]. The Administrator may request at any time an owner or operator demonstrate that a control device meets the performance standards by conducting a performance test using the test methods and procedures as required in 40 CFR 61.355.[40 CFR 61.349(e)].	Other: Keep the following records for the life of the control device: The signed and dated statement required at 40 CFR 61.356(f)(1), and the design analysis components specified at 40 CFR 61.356(f)(2)(i) and 40 CFR 61.356(f)(2)(i)(G).[40 CFR 61.356(j)(10)].	None.
15	The closed-vent system and control device shall be operated at all times when waste is placed in the tank except when maintenance or repairs cannot be completed without a shutdown of the control device. [40 CFR 61.349(b)]	None.	Other: Keep the following records for the life of the life of the control device: Dates of startup and shutdown of the closed-vent system and control device, a description of the operating parameter(s) to be monitored, the control device's design specifications and an explanation of the criteria used for selection of the parameter(s), and periods when the closed-vent system and control device are not operated as designed.[40 CFR 61.356(j)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Each closed vent system and control device shall be visually inspected. The inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork and piping and loose connections. [40 CFR 61.349(f)]	Other: Monitored by visual determination once initially and quarterly thereafter.[40 CFR 61.349(f)].	Other: Keep a record for each visual inspection that identifies a problem which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.[40 CFR 61.356(g)].	Repair equipment: As per the approved schedule. If visible defects are observed, or other problems are identified, a first effort to repair shall be made as soon as practicable but no later than 5 calendar days and repairs completed no later than 15 calendar days after detection. Repairs maybe delayed if the repair is technically impossible without a complete or partial facility or unit shutdown. Repairs shall occur before the end of the next facility or unit shutdown. [40 CFR 61.350] and (b). Submit annual reports to the Administrator that summarizes all inspections conducted during which detectable emissions were measured or a problem (such as a broken seal) was identified, including repairs or corrective action taken. [40 CFR 61.357(d)(8)]
17	The concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. [40 CFR 60.354(d)]	Other: A carbon adsorption breakthrough monitor shall measure the benzene concentration between the primary and secondary canisters every operating weekday. According to the EPA Consent Decree SA 05 CA 0569 dated 6/16/05, breakthrough between the primary and secondary canisters is defined as any reading greater than or equal to 5 ppm benzene.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the dates and times that the control device is monitored, when breakthrough is measured, and the date and time then the existing carbon in the control device is replaced with fresh carbon. [40 CFR 61.356(j)(10)]. Record the benzene concentration measured between the primary and secondary canisters.[N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: As per the approved schedule. Replace the second canister with a fresh canister immediately breakthrough between the primary and secondary canister is detected. The original secondary canister will become the new primary carbon canister and the fresh carbon canister will become the secondary canister. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U902 Vert fixed roof tnks, storing applicable VOC, subject to NESHAPS FF/ NSPS QQQ, equipped with closed vent systems + carbon canisters**

Operating Scenario: **OS9 E338 - RW 22 Tank - 1900 gal cap - VOC VP <= 2.4 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG), OS10 E339 - RW 24 Tank - 1900 gal cap - VOC VP <= 2.4 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG), OS11 E340 - RW 26 Tank - 1900 gal cap - VOC VP <= 1.0 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	See Table 3 of 40 CFR 63 Subpart GGGGG for additional requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	You must be in compliance with the emissions limitations (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction. [40 CFR 63.7935(a)] You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.7935(b)] You must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.7935(c)]	None.	Other: Keep all relevant records according to 40 CFR 63.7952 in the form and duration specified at[40 CFR 63.7953].	Submit a report: As per the approved schedule. You must report each instance in which you did not meet each emissions limitation and each operating limit that applies to you. This includes periods of startup, shutdown, and malfunction. You must also report each instance in which you did not meet the requirements for work practice standards that apply to you. These deviations must be reported according to the requirements in 40 CFR 63.7951. [40 CFR 63.7935(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Determine the maximum HAP vapor pressure (kPa)) of the remediation material using the procedures at 40 CFR 63.7944. [40 CFR 7895(b)(1)] Use Table 2 of 40 CFR 63 Subpart GGGGG to determine the tank control level (Tank Level 1 or Tank Level 2) that applies to your tanks. If Tank Level 1 controls apply, meet the requirements at 40 CFR 63.7895(c). If Tank Level 2 controls apply, meet the requirements at 40 CFR 63.7895(d). [40 CFR 63.7895(b)(2)] The permittee has previously determined that Tank Level 1 controls apply. [N.J.A.C. 7:27-22.16(a)]	Other: Demonstrate continuous compliance with the requirement to determine the applicable tank control level for each affected tank by meeting the requirements at 40 CFR 63.7898(b)(1) through (3). [40 CFR 63.7898(b)] Perform a new maximum HAP vapor pressure determination whenever changes to the remediation material managed in the tank could potentially cause the maximum HAP vapor pressure to increase.[40 CFR 63.7898(b)(2)(ii)].	Other: Keeping records of the tank design capacity. [40 CFR 63.7898(b)(1)]. Keep records of the maximum HAP vapor pressure determined according to the procedures at 40 CFR 63.7944. [40 CFR 63.7898(b)(2)(i)]. Keep records to document compliance according to the requirements at 40 CFR 63.63.7952. [40 CFR 63.7898(b)(3)]. Keep records of each maximum HAP vapor pressure determination.[40 CFR 63.7898(b)(2)(ii)].	Submit a report: As per the approved schedule. Submit semiannual compliance reports to your permitting authority according to the requirements specified at. [40 CFR 63.7951]
4	Tank Level 1 Controls: Install and operate a fixed roof per 40 CFR 63.902. [40 CFR 63.7895(c)]	Other: Demonstrate continuous compliance for each tank determined to require Tank Level 1 controls by: Operating and maintaining the fixed roof and closure devices according to 40 CFR 63.902(c) and visually inspecting the fixed roof and closure devices for defects at least annually according 40 CFR 63.906(a). [40 CFR 63.7898(c)(1)] and[40 CFR 63.7898(c)(2)].	Other: Record the information specified at 40 CFR 63.907(a)(3) and (b). Keep records to document compliance with the requirements of this subpart according to 40 CFR 63.7952. [40 CFR 63.7898(c)(4)] and[40 CFR 63.7898(c)(5)].	Repair equipment: Upon occurrence of event. Repair defects according to the requirements in 40 CFR 63.63.906(b). [40 CFR 63.7898(c)(3)]. Submit semiannual compliance reports to your permitting authority according to the requirements specified at. [40 CFR 63.7951]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U903 Non VOC Tanks (Alky / Amine / Sulfuric acid)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sodium Hydroxide <= 0.64 tons/yr for all tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Sodium Fluoride <= 0.64 tons/yr permit for all tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Sodium Chloride <= 0.64 tons/yr for all tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Calcium Fluoride <= 0.64 tons/yr for all tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO3 and H2SO4, as converted and expressed as H2SO4 <= 0.024 tons/yr permits for all tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U903 Non VOC Tanks (Alky / Amine / Sulfuric acid)**

Operating Scenario: **OS1 E243 - Fiberglass Open Roof Storage Tnk F301A - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level)., OS2 E244 - Fiberglass Open Roof Storage Tnk F301B - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level)., OS3 E245 - Fiberglass Open Roof Storage Tnk F303A - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level)., OS4 E246 - Fiberglass Open Roof Storage Tnk F303B - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level)., OS5 E247 - Fiberglass Open Roof Storage Tnk F303 - 16,100 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank contents limited to spent 5% NaOH aqueous solution, NaF, H2O, NaCl and CaF2. (Note: The contents listed above may contain contaminant levels of VOC). [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by laboratory analysis or equivalent methodology once initially and per change of material.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	None.
2	Permittee's annual throughput limit <= 1,077,000 gal per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging or product metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record throughput each time material is added to the tank along with the year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U903 Non VOC Tanks (Alky / Amine / Sulfuric acid)**
Operating Scenario: **OS8 E235 - VFR Tnk 3570 - 11,000 gal cap - H2SO4**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank content limited to sulfuric acid [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by shipping records showing material delivered, per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by maintaining shipping records showing material delivered, per delivery.[N.J.A.C. 7:27-22.16(o)].	None.
2	Permittee's annual throughput limit <= 450,000 gallons per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging or product metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record throughput each time material is added to the tank along with the year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
3	SO3 and H2SO4, as converted and expressed as H2SO4 <= 1.2 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period. [N.J.A.C. 7:27-7.2(g)] and. [N.J.A.C. 7:27-7.2(r)]	None.	None.	None.
4	SO3 and H2SO4, as converted and expressed as H2SO4 <= 2.4 lb/hr. Maximum allowable emission rate for sulfur compounds at any instant. [N.J.A.C. 7:27-7.2(g)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U903 Non VOC Tanks (Alky / Amine / Sulfuric acid)**
Operating Scenario: **OS9 E236 - VFR Tnk 3571 - 11,000 gal cap - H2SO4**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Storage tank content limited to sulfuric acid [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by shipping records showing material delivered, per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by maintaining shipping records showing material delivered, per delivery.[N.J.A.C. 7:27-22.16(o)].	None.
2	Permittee's annual throughput limit <= 450,000 gallons per year. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging or product metering per occurrence.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record throughput each time material is added to the tank along with the year-to-date throughput. [N.J.A.C. 7:27-22.16(o)]	None.
3	SO3 and H2SO4, as converted and expressed as H2SO4 <= 1.2 lb/hr. Maximum allowable emission rate for sulfur compounds in any 60-minute period. [N.J.A.C. 7:27-7.2(g)] and. [N.J.A.C. 7:27-7.2(r)]	None.	None.	None.
4	SO3 and H2SO4, as converted and expressed as H2SO4 <= 2.4 lb/hr. Maximum allowable emission rate for sulfur compounds at any instant. [N.J.A.C. 7:27-7.2(g)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): PAULSBORO REFINING COMPANY LLC **Facility ID (AIMS):** 55829

Street Address: 800 BILLINGSPORT RD
PAULSBORO REFINERY
800 BILLINGSPORT RD
PAULSBORO, NJ 08066

Mailing Address: 800 BILLINGSPORT RD
PAULSBORO, NJ 08066

State Plane Coordinates:

X-Coordinate:	1,833,450
Y-Coordinate:	367,000
Units:	New Jersey State Plane 8
Datum:	Unknown
Source Org.:	DEP-GIS
Source Type:	GPS

County: Gloucester

Location Description: INDUSTRIAL

Industry:

Primary SIC:	2911
Secondary SIC:	
NAICS:	324110

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: **Air Permit Information Contact**

Organization: Paulsboro Refining Company
Org. Type: Corporation
Name: Robert Muche
NJ EIN: 00360660000
Title: Environmental Manager
Phone: (856) 224-6607 x
Fax: (856) 224-6193 x
Other: ( ) - x
Type:
Email: Robert.Muche@pbfenergy.com
Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

Contact Type: **BOP - Operating Permits**

Organization:
Org. Type: LLC
Name: Dave Land
NJ EIN: 00360660000
Title:
Phone: (856) 224-6430 x
Fax: (856) 224-6193 x
Other: ( ) - x
Type:
Email: Dave.Land@pbfenergy.com
Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

Contact Type: **Environmental Officer**

Organization: Paulsboro Refining Company LLC
Org. Type: Corporation
Name: Robert Muche
NJ EIN: 00360660000
Title: Environmental Manager
Phone: (856) 224-6607 x
Fax: (856) 224-6193 x
Other: ( ) - x
Type:
Email: Robert.Muche@pbfenergy.com
Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: **Operator**

Organization:

Org. Type: LLC

Name: Paulsboro Refining Company LLC

NJ EIN: 00360660000

Title: owner

Phone: (856) 224-6000 x

Fax: ( ) - x

Other: ( ) - x

Type:

Email:

Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

Contact Type: **Owner (Current Primary)**

Organization: Paulsboro Refining Company LLC

Org. Type: Corporation

Name: Robert Muche

NJ EIN: 00360660000

Title: Environmental Supervisor

Phone: (856) 224-6607 x

Fax: ( ) - x

Other: ( ) - x

Type:

Email: robert.muche@pbfenergy.com

Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

Contact Type: **Responsible Official**

Organization: Paulsboro Refining Company LLC

Org. Type: Corporation

Name: Steven Krynski

NJ EIN: 00360660000

Title: Vice President/General Manager

Phone: (856) 224-6217 x

Fax: (856) 224-6616 x

Other: ( ) - x

Type:

Email: Steven.Krynski@pbfenergy.com

Mailing Address: 800 Billingsport Road
Paulsboro, NJ 08066

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 150003

Description of Modifications: This modification has three parts:
i) A geodesic dome will be installed on Tank 1115 (E132) as per the Alternative VOC control plan.
ii) The SRU incinerator firebox temperature and outlet oxygen concentration is being updated per 40 CFR 63 Subpart UUU.
iii) The utility plant gas turbine generator NOx emission limit is being returned to the permit.

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 01/13/2017

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Valves, Pumps, Connectors, Flanges, and Other (agitator, comp., safety) - Leak Detection and Repair Program		323.000								
FG6	Road dust						0.100	0.100			
FG7	Benzene Fenceline Monitoring Program	Facilitywide									
Total			323.000	0.000	0.000	0.000	0.100	0.100	0.000	0.00000000	0.000

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	Oil Storage Tanks (10)	Storage Vessel	Paulsboro	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS2	Chemical Tanks (10)	Storage Vessel	Paulsboro									
IS3	Caustic Tanks (5)	Storage Vessel	Paulsboro									
IS4	Cooling Tower Chemical Tanks (12)	Storage Vessel	Paulsboro									
IS5	Amine Tanks (6)	Storage Vessel	Paulsboro									
IS6	Furfural 1 Vent	Other Equipment	Paulsboro	2.000								
IS7	Furfural 2 vent	Other Equipment	Paulsboro	2.000								
IS8	Cooling Towers (12)	Other Equipment	Paulsboro	0.040								
IS9	Laboratory Hoods (28)	Other Equipment	Paulsboro	0.300								
IS10	LPG Loading Hose connections	Other Equipment	Paulsboro									
IS11	Non-Applicable VOC Loading Racks	Other Equipment	Paulsboro	8.100								
IS13	Process Analyzer vents	Other Equipment	Paulsboro									
Total				13.440	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

PAULSBORO REFINING COMPANY LLC (55829) Date: 1/13/2017

BOP160002

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	Crude Unit 6	Process Heater - Crude Unit #6	Process Heater	BOP020001		No	1/1/1987	
E2	C.U. 7 F-1A	Process heater - Crude Unit # 7 - F-1A Atm. Heater	Process Heater	118667		No	8/24/1994	
E3	C.U. 7 F-1	Process heater - CU-7 F-1 Atm. Heater	Process Heater	PCP010002	7/1/1953	No	1/1/1983	
E4	C.U. 7 F-2	Process heater - Crude Unit 7 - F2 Vacuum heater	Process Heater	118667		No	8/24/1994	
E5	Coker A	Process heater - Coker A heater	Process Heater	P-1968		Yes		
E6	Coker B	Process heater - Coker B heater	Process Heater	P-1968		Yes		
E10	PtR B-104	Process Heater- PtR B-104 Heater	Process Heater	BOP020001		No		
E11	CHD-1 B-401	Process heater - CHD B-401	Process Heater	PCP000002		No		
E12	MLDW	Process heater - MLDW heater	Process Heater	105817		No	1/1/1991	
E13	CHD2 Heater	Process Heater	Fuel Combustion Equipment (Other)	094120		No	1/1/1987	
E14	H2 Plt Htr	Hydrogen Plant Heater	Process Heater	105670		No	1/1/1991	
E16	Furf 1 BB-1	Process heater - Furfural Unit 1 - BB-1 heater(Raff)	Process Heater	P-1968		Yes		
E17	Furf 1 BB-2	Process heater - Furfural Unit 1 - BB-2 heater (Ext)	Process Heater	P-1968		Yes		
E18	Furf 2 B-101	Process heater - Furfural Unit # 2 - B-101 heater	Process Heater	PCP010005	11/1/1945	No	6/28/2001	
E19	PDA BB-1	Process heater - PDA BB-1 heater(Raff)	Process Heater	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E20	PDA BB-2	Process heater - PDA BB-2 heater (Asph)	Process Heater	P-1968		Yes		
E21	FCC Scrubber	Scrubber Stack	Other Equipment	BOP020001		No	1/1/1987	
E22	MAB air pre.	FCC air preheater - process heater	Process Heater	PCP000003		No	1/1/1987	
E23	Tank 562	Tank 562	Storage Vessel	111045		No	1/1/1993	
E24	FCC Cat hop.	FCC Fresh catalyst hopper	Other Equipment	035690		No	1/1/1980	
E28	MVR flare	Marine vapor recovery - Thermal oxidizer	Manufacturing and Materials Handling Equipment	010594		No	1/1/1990	
E30	SP New Flare	South Plant New Flare	Fuel Combustion Equipment (Other)	111043	5/1/2016	No		
E31	S.P.New Fl.	South Plant new emergency flare	Fuel Combustion Equipment (Other)	111044		No	1/1/1992	
E32	S.P.ZTOF	South Plant ZTOF emergency flare (no longer operated)	Fuel Combustion Equipment (Other)	111041		No	1/1/1992	
E34	N.P. Flare	North Plant emergency flare	Fuel Combustion Equipment (Other)	071322		No	1/1/1984	
E35	N.P.Spare FL	North Plant spare emergency flare	Fuel Combustion Equipment (Other)	071322		No	1/1/1984	
E36	Boiler 2A	Boiler 2A- Non-utility boiler	Boiler	BOP020001		No	1/1/1991	
E37	Boiler 2B	Boiler 2B- Non-utility boiler	Boiler	BOP020001		No	1/1/1991	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E38	Boiler 2C	Boiler 2C- Non-utility boiler	Boiler	BOP020001		No	1/1/1991	
E39	GTG	Gas Turbogenerator	Combustion Turbine	BOP020001		No	1/1/1991	
E40	HRSG	Heat Recovery Steam Generator	Duct Burner	BOP020001		No	1/1/1991	
E41	FCC Eq.C.Hop	FCC equilibrium catalyst hopper	Other Equipment	035690		No	1/1/1980	
E56	1	Tank 1	Storage Vessel	P-1968		Yes		
E57	2	Tank 2	Storage Vessel	P-1968		Yes		
E58	3	Tank 3	Storage Vessel	P-1968		Yes		
E59	4	Tank 4	Storage Vessel	P-1968		Yes		
E60	5	Tank 5	Storage Vessel	P-1968		Yes		
E61	8	Tank 8	Storage Vessel	P-1968		Yes		
E62	9	Tank 9	Storage Vessel	P-1968		Yes		
E63	41	Tank 41	Storage Vessel	P-1968		Yes		
E64	42	Tank 42	Storage Vessel	P-1968		Yes		
E65	53	Tank 53	Storage Vessel	P-1968		Yes		
E66	54	Tank 54	Storage Vessel	P-1968		Yes		
E67	93	Tank 93	Storage Vessel	P-1968		Yes		
E68	218	Tank 218	Storage Vessel	P-1968		Yes		
E69	219	Tank 219	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E70	335	Tank 335	Storage Vessel	P-1968		Yes		
E71	368	Tank 368	Storage Vessel	P-1968		Yes		
E72	385	Tank 385	Storage Vessel	P-1968		Yes		
E73	386	Tank 386	Storage Vessel	P-1968		Yes		
E74	391	Tank 391	Storage Vessel	092765		No	1/1/1989	
E75	392	Tank 392	Storage Vessel	091291		No	1/1/1989	
E76	397	Tank 397	Storage Vessel	P-1968		Yes		
E77	398	Tank 398	Storage Vessel	P-1968		Yes		
E78	412	Tank 412	Storage Vessel	P-1968		Yes		
E79	448	Tank 448	Storage Vessel	P-1968		Yes		
E80	449	Tank 449	Storage Vessel	P-1968		Yes		
E81	457	Tank 457	Storage Vessel	P-1968		Yes		
E82	481	Tank 481	Storage Vessel	P-1968		Yes		
E83	485	Tank 485	Storage Vessel	P-1968		Yes		
E84	510	Tank 510	Storage Vessel	P-1968		Yes		
E85	557	Tank 557	Storage Vessel	040100		No	1/1/1978	
E86	558	Tank 558	Storage Vessel	P-1968		Yes		
E89	593	Tank 593	Storage Vessel	P-1968		Yes		
E90	594	Tank 594	Storage Vessel	P-1968		Yes		
E91	595	Tank 595	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E92	634	Tank 634	Storage Vessel	P-1968		Yes		
E93	635	Tank 635	Storage Vessel	P-1968		Yes		
E94	636	Tank 636	Storage Vessel	P-1968		Yes		
E95	639	Tank 639	Storage Vessel	P-1968		Yes		
E96	640	Tank 640	Storage Vessel	112342		No	1/1/1991	
E97	641	Tank 641	Storage Vessel	103316		No	1/1/1991	
E98	670	Tank 670	Storage Vessel	P-1968		Yes		
E99	692	Tank 692	Storage Vessel	111700		No	1/1/1992	
E100	693	Tank 693	Storage Vessel	P-1968		Yes		
E101	708	Tank 708	Storage Vessel	P-1968		Yes		
E102	724	Tank 724	Storage Vessel	040090	1/1/1925	No	1/1/1987	
E103	725	Tank 725	Storage Vessel	048794	1/1/1925	No	1/1/1987	
E104	756	Tank 756	Storage Vessel	P-1968		Yes		
E105	766	Tank 766	Storage Vessel	P-1968		Yes		
E106	767	Tank 767	Storage Vessel	P-1968		Yes		
E107	802	Tank 802	Storage Vessel	066138		No	1/1/1987	
E109	839	Tank 839	Storage Vessel	P-1968		Yes		
E110	840	Tank 840	Storage Vessel	P-1968		Yes		
E112	866	Tank 866	Storage Vessel	P-1968		Yes		
E113	883	Tank 883	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E114	935	Tank 935	Storage Vessel	P-1968		Yes		
E115	936	Tank 936	Storage Vessel	P-1968		Yes		
E116	937	Tank 937	Storage Vessel	P-1968		Yes		
E117	939	Tank 939	Storage Vessel	P-1968		Yes		
E118	1000	Tank 1000	Storage Vessel	P-1968		Yes		
E120	1021	Tank 1021	Storage Vessel	P-1968		Yes		
E121	1022	Tank 1022	Storage Vessel	P-1968		Yes		
E122	1023	Tank 1023	Storage Vessel	061764		No	1/1/1977	
E123	1024	Tank 1024	Storage Vessel	P-1968		Yes		
E124	1025	Tank 1025	Storage Vessel	P-1968		Yes		
E125	1027	Tank 1027	Storage Vessel	024457		No	1/1/1977	
E126	1028	Tank 1028	Storage Vessel	P-1968		Yes		
E128	1063	Tank 1063	Storage Vessel	067127		No	1/1/1983	
E129	1064	Tank 1064	Storage Vessel	067128		No	1/1/1983	
E130	1065	Tank 1065	Storage Vessel	067129		No	1/1/1983	
E131	1066	Tank 1066	Storage Vessel	066139		No	1/1/1982	
E132	1115	Tank 1115	Storage Vessel	048793		No	1/1/1980	
E133	1116	Tank 1116	Storage Vessel	061114		No	1/1/1981	
E134	1117	Tank 1117	Storage Vessel	P-1968		Yes		
E135	1118	Tank 1118	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E136	1131	Tank 1131	Storage Vessel	P-1968		Yes		
E137	1132	Tank 1132	Storage Vessel	P-1968		Yes		
E138	1248	Tank 1248	Storage Vessel	P-1968		Yes		
E139	1249	Tank 1249	Storage Vessel	P-1968		Yes		
E140	1318	Tank 1318	Storage Vessel	040089		No	1/1/1978	
E141	1319	Tank 1319	Storage Vessel	093277	1/1/1937	No	1/1/1989	
E142	1320	Tank 1320	Storage Vessel	031279	1/1/1937	No	1/1/1989	
E143	1321	Tank 1321	Storage Vessel	118669		No	1/1/1994	
E144	1425	Tank 1425	Storage Vessel	P-1968		Yes		
E145	1426	Tank 1426	Storage Vessel	P-1968		Yes		
E146	1427	Tank 1427	Storage Vessel	P-1968		Yes		
E147	1428	Tank 1428	Storage Vessel	P-1968		Yes		
E148	1474	Tank 1474	Storage Vessel	P-1968		Yes		
E149	1536	Tank 1536	Storage Vessel	091292		No	1/1/1989	
E150	1537	Tank 1537	Storage Vessel	091293		No	1/1/1989	
E151	1883	Tank 1883	Storage Vessel	036616		No	1/1/1977	
E152	1886	Tank 1886	Storage Vessel	P-1968		Yes		
E153	1887	Tank 1887	Storage Vessel	P-1968		Yes		
E154	1888	Tank 1888	Storage Vessel	P-1968		Yes		
E155	1889	Tank 1889	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E156	1890	Tank 1890	Storage Vessel	P-1968		Yes		
E157	1891	Tank 1891	Storage Vessel	P-1968		Yes		
E158	1892	Tank 1892	Storage Vessel	P-1968		Yes		
E159	1898	Tank 1898	Storage Vessel	P-1968		Yes		
E160	1899	Tank 1899	Storage Vessel	092766		No	1/1/1989	
E161	1911	Tank 1911	Storage Vessel	P-1968		Yes		
E162	1912	Tank 1912	Storage Vessel	040093		No	1/1/1978	
E164	1917	Tank 1917	Storage Vessel	102868		No	1/1/1991	
E165	1918	Tank 1918	Storage Vessel	102868		No	1/1/1991	
E166	1919	Tank 1919	Storage Vessel	104090		No	1/1/1991	
E167	1920	Tank 1920	Storage Vessel	104090		No	1/1/1991	
E168	1929	Tank 1929	Storage Vessel	024449		No	1/1/1976	
E169	1930	Tank 1930	Storage Vessel	024450		No	1/1/1976	
E170	1941	Tank 1941	Storage Vessel	P-1968		Yes		
E171	1942	Tank 1942	Storage Vessel	P-1968		Yes		
E172	1943	Tank 1943	Storage Vessel	P-1968		Yes		
E173	1944	Tank 1944	Storage Vessel	P-1968		Yes		
E174	1945	Tank 1945	Storage Vessel	P-1968		Yes		
E175	1946	Tank 1946	Storage Vessel	P-1968		Yes		
E176	1947	Tank 1947	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E180	1962	Tank 1962	Storage Vessel	P-1968		Yes		
E181	1963	Tank 1963	Storage Vessel	P-1968		Yes		
E182	1964	Tank 1964	Storage Vessel	P-1968		Yes		
E183	1965	Tank 1965	Storage Vessel	P-1968		Yes		
E184	1969	Tank 1969	Storage Vessel	P-1968		Yes		
E185	1970	Tank 1970	Storage Vessel	P-1968		Yes		
E186	2014	Tank 2014	Storage Vessel	P-1968		Yes		
E187	2015	Tank 2015	Storage Vessel	P-1968		Yes		
E188	2016	Tank 2016	Storage Vessel	P-1968		Yes		
E189	2017	Tank 2017	Storage Vessel	P-1968		Yes		
E190	2041	Tank 2041	Storage Vessel	P-1968		Yes		
E191	2042	Tank 2042	Storage Vessel	P-1968		Yes		
E192	2043	Tank 2043	Storage Vessel	P-1968		Yes		
E193	2044	Tank 2044	Storage Vessel	P-1968		Yes		
E194	2173	Tank 2173	Storage Vessel	067130		No	1/1/1983	
E195	2407	Tank 2407	Storage Vessel	034190		No	1/1/1977	
E196	2417(AG9)	Tank 2417 (AG9)	Storage Vessel	102871		No	1/1/1991	
E197	2418(AG10)	Tank 2418 (AG10)	Storage Vessel	102871		No	1/1/1991	
E198	2503	Tank 2503	Storage Vessel	P-1968		Yes		
E199	2504	Tank 2504	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E207	2799	Tank 2799	Storage Vessel	003313		No	1/1/1971	
E208	2800	Tank 2800	Storage Vessel	003314		No	1/1/1971	
E209	2807	Tank 2807	Storage Vessel	003312		No	1/1/1971	
E210	2808	Tank 2808	Storage Vessel	003311		No	1/1/1971	
E211	2816	Tank 2816	Storage Vessel	P-1968		Yes		
E212	2817	Tank 2817	Storage Vessel	P-1968		Yes		
E214	2840	Tank 2840	Storage Vessel	030620		No	1/1/1976	
E215	2841	Tank 2841	Storage Vessel	030621		No	1/1/1976	
E216	2842	Tank 2842	Storage Vessel	030622		No	1/1/1976	
E217	2869	Tank 2869	Storage Vessel	024456		No	1/1/1982	
E218	2885	Tank 2885	Storage Vessel	103236		No	1/1/1991	
E219	2910	Tank 2910	Storage Vessel	018290		No	1/1/1975	
E220	2940	Tank 2940	Storage Vessel	066137		No	1/1/1982	
E221	2941	Tank 2941	Storage Vessel	066143		No	1/1/1977	
E223	2949	Tank 2949	Storage Vessel	P-1968		Yes		
E224	2950	Tank 2950	Storage Vessel	P-1968		Yes		
E225	2983	Tank 2983	Storage Vessel	103236		No	1/1/1991	
E226	3001	Tank 3001	Storage Vessel	030616		No	1/1/1976	
E227	3018	Tank 3018	Storage Vessel	032671		No	1/1/1977	
E229	3042	Tank 3042	Storage Vessel	037491		No	1/1/1978	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E230	3174	Tank 3174	Storage Vessel	045558		No	1/1/1979	
E231	3211	Tank 3211	Storage Vessel	051378		No	1/1/1981	
E232	3244	Tank 3244	Storage Vessel	067131		No	1/1/1983	
E233	3432	Tank 3432	Storage Vessel	079028		No	1/1/1987	
E234	3457	Tank 3457	Storage Vessel	089117		No	1/1/1989	
E235	3570	Tank 3570	Storage Vessel	099972		No	1/1/1991	
E236	3571	Tank 3571	Storage Vessel	099973		No	1/1/1991	
E237	3577	Tank 3577	Storage Vessel	104091		No	1/1/1991	
E238	3592	Tank 3592	Storage Vessel	102870		No	1/1/1991	
E239	3734	Tank 3734	Storage Vessel	log01933299		No	1/1/1993	
E240	32F13	Tank 32F13	Storage Vessel	091993		No	1/1/1991	
E241	51F1	Tank 51F1	Storage Vessel	073820		No	1/1/1980	
E242	51F2	Tank 51F2	Storage Vessel	073822		No	1/1/1980	
E243	F301A	Tank F301A	Storage Vessel	073289		No	1/1/1985	
E244	F301B	Tank F301B	Storage Vessel	073290		No	1/1/1985	
E245	M303A	Tank M303A	Storage Vessel	073291		No	1/1/1985	
E246	M303B	Tank M303B	Storage Vessel	073292		No	1/1/1985	
E247	F303	Tank F303	Storage Vessel	073591		No	1/1/1985	
E249	S-1	Tank S-1	Storage Vessel	P-1968		Yes		
E250	S-3	Tank S-3	Storage Vessel	044605		No	1/1/1979	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E251	S-8	Tank S-8	Storage Vessel	P-1968		Yes		
E253	S-10	Tank S-10	Storage Vessel	040103		No	1/1/1978	
E255	S-32	Tank S-32	Storage Vessel	040104		No	1/1/1978	
E256	S-33	Tank S-33	Storage Vessel	035217		No	1/1/1977	
E257	NewTank S-34	Replacement Tank S-34	Storage Vessel	P-1968		No		
E258	S-35	Tank S-35	Storage Vessel	P-1968		Yes		
E259	S-36	Tank S-36	Storage Vessel	062833		No	1/1/1982	
E260	S-37	Tank S-37	Storage Vessel	P-1968		Yes		
E261	S-38	Tank S-38	Storage Vessel	114951		No	1/1/1993	
E262	S-45	Tank S-45	Storage Vessel	P-1968		Yes		
E263	S-46	Tank S-46	Storage Vessel	P-1968		Yes		
E264	S-48	Tank S-48	Storage Vessel	P-1968		Yes		
E265	S-49	Tank S-49	Storage Vessel	P-1968		Yes		
E266	S-50	Tank S-50	Storage Vessel	P-1968		Yes		
E267	S-51	Tank S-51	Storage Vessel	P-1968		Yes		
E268	S-52	Tank S-52	Storage Vessel	P-1968		Yes		
E269	S-53	Tank S-53	Storage Vessel	P-1968		Yes		
E270	S-54	Tank S-54	Storage Vessel	P-1968		Yes		
E271	S-55	Tank S-55	Storage Vessel	044604		No	1/1/1979	
E272	S-57	Tank S-57	Storage Vessel	044603		No	1/1/1979	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E273	S-58	Tank S-58	Storage Vessel	P-1968		Yes		
E274	S-59	Tank S-59	Storage Vessel	P-1968		Yes		
E275	S-60	Tank S-60	Storage Vessel	P-1968		Yes		
E276	S-61	Tank S-61	Storage Vessel	P-1968		Yes		
E277	S-62	Tank S-62	Storage Vessel	P-1968		Yes		
E279	S-64	Tank S-64	Storage Vessel	P-1968		Yes		
E280	S-65	Tank S-65	Storage Vessel	P-1968		Yes		
E281	S-66	Tank S-66	Storage Vessel	P-1968		Yes		
E282	S-67	Tank S-67	Storage Vessel	P-1968		Yes		
E283	S-68	Tank S-68	Storage Vessel	P-1968		Yes		
E284	S-70	Tank S-70	Storage Vessel	P-1968		Yes		
E285	S-74	Tank S-74	Storage Vessel	PCP010006		No	1/1/1995	
E286	S-75	Tank S-75	Storage Vessel	065409		No	1/1/1982	
E287	S-76	Tank S-76	Storage Vessel	061765		No	1/1/1982	
E288	S-77	Tank S-77	Storage Vessel	066140		No	1/1/1982	
E289	S-78	Tank S-78	Storage Vessel	061766		No	1/1/1982	
E290	S-79	Tank S-79	Storage Vessel	113586		No	1/1/1993	
E291	S-80	Tank S-80	Storage Vessel	065410		No	1/1/1982	
E292	S-81	Tank S-81	Storage Vessel	066142		No	1/1/1982	
E293	S-82	Tank S-82	Storage Vessel	118668		No	1/1/1994	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E294	3551	Tank 3551	Storage Vessel	P-1968		Yes		
E295	3552	Tank 3552	Storage Vessel	P-1968		Yes		
E296	3634	Tank 3634	Storage Vessel	P-1968		Yes		
E297	3157	Tank 3157	Storage Vessel	035190		No	1/1/1980	
E298	3169	Tank 3169	Storage Vessel	P-1968		Yes		
E299	3548	Tank 3548	Storage Vessel	P-1968		Yes		
E300	3549	Tank 3549	Storage Vessel	P-1968		Yes		
E301	2705	Tank 2705	Storage Vessel	P-1968		Yes		
E302	Coker Separ.	Coker process water separator	Other Equipment	067522		No	1/1/1984	
E303	RO Separator	RO process water separator	Other Equipment	067523		No	1/1/1984	
E305	API Separ.	WWTP: API process water separator	Other Equipment	067524		No	1/1/1984	
E307	SRU#3 Anal.	SRU#3 unit stream analyzers	Other Equipment	035160/035161		No	1/1/1980	
E308	SRU#2 Anal.	SRU#2 unit stream analyzers	Other Equipment	035160/035161		No	1/1/1980	
E309	SRULoad Rack	SRU loading rack for molten sulfur	Other Equipment	035160/035161		No	1/1/1980	
E310	SRU #2 S.pit	SRU# 2 molten sulfur storage pit	Storage Vessel	035160/035161		No	1/1/1980	
E311	SRU #3 S.pit	SRU# 3 molten sulfur storage pit	Storage Vessel	035160/035161		No	1/1/1980	
E313	TGU cat reg	TGU 80 catalyst regeneration	Other Equipment	035160		No	1/1/1980	
E314	TGU cat reg	TGU 81 catalyst regeneration	Other Equipment	035161		No	1/1/1980	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E320	No. 89 RW	No. 89 River Water - Water to Utilities	Stationary Reciprocating Engine		1/1/1968	No	1/1/1968	
E323	OM Diesel	New Tier IV Diesel Engine	Emergency Generator	None	10/23/2014	No		
E324	FP @ 1185	Fire Pump @ 1185 Tank - Fire Water	Stationary Reciprocating Engine		1/1/1968	No	1/1/1968	
E325	G-201	G-201 - Water to Utilities	Stationary Reciprocating Engine		1/1/1998	No	1/1/1998	
E326	G-202	G-202 Fire Water	Stationary Reciprocating Engine		1/1/1998	No	1/1/1998	
E327	G-203	G-203 Fire Water	Stationary Reciprocating Engine		1/1/1998	No	1/1/1998	
E328	G-205	G-205 Fire Water	Stationary Reciprocating Engine		1/1/1998	No	1/1/1998	
E329	DAF Lift Sta	WWTP: Dissolved Air Flotation Unit (DAF) Lift Station	Other Equipment			No		
E330	DAF1	WWTP: Dissolved Air Flotation Unit (DAF)	Other Equipment			No		
E331	DAF2	WWTP: Dissolved Air Flotation Unit (DAF)	Other Equipment			No		
E332	Aera.Basin1	WWTP: Aeration Basin #1	Other Equipment			No		
E333	Aera.Basin2	WWTP: Aeration Basin #2	Other Equipment			No		
E334	Clarifier 1	WWTP: Clarifier #1	Other Equipment			No		
E335	Clarifier 2	WWTP: Clarifier #2	Other Equipment			No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E336	DAF3	WWTP: Dissolved Air Flotation Unit (DAF)	Other Equipment			No		
E337	DAF4	WWTP: Dissolved Air Flotation Unit (DAF)	Other Equipment			No		
E338	RW 22 Tank	Tank - RW 22	Storage Vessel		7/11/2005	No	7/11/2005	
E339	RW 24 Tank	Tank - RW 24	Storage Vessel		7/11/2005	No	7/11/2005	
E340	RW 26 Tank	Tank - RW 26	Storage Vessel		7/11/2005	No	7/11/2005	
E511	Tank 841	841 tank	Storage Vessel	040092		No	1/1/1978	
E512	Tank 803	803 tank	Storage Vessel	024459		No	1/1/1976	
E513	Tank S-7	S-7 tank	Storage Vessel	P-1968		Yes		
E514	Tank 928	928 tank	Storage Vessel	P-1968		Yes		
E515	Tank 1913	1913 tank	Storage Vessel	P-1968		Yes		
E516	Tank 203	203 tank	Storage Vessel	P-1968		Yes		
E517	Tank 204	204 tank	Storage Vessel	P-1968		Yes		
E518	Tank 2987	2987 tank	Storage Vessel	022666		No	1/1/1976	
E519	Tank 3021	3021 tank	Storage Vessel	038063		No	1/1/1978	
E520	Tank 198	198 tank	Storage Vessel	P-1968		Yes		
E521	Tank 199	199 tank	Storage Vessel	P-1968		Yes		
E522	Tank 200	200 tank	Storage Vessel	P-1968		Yes		
E523	Tank 201	201 tank	Storage Vessel	P-1968		Yes		
E524	Tank 202	202 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E525	Tank 209	209 tank	Storage Vessel	P-1968		Yes		
E526	Tank 211	211 tank	Storage Vessel	P-1968		Yes		
E527	Tank 212	212 tank	Storage Vessel	P-1968		Yes		
E528	Tank 213	213 tank	Storage Vessel	P-1968		Yes		
E529	Tank 214	214 tank	Storage Vessel	P-1968		Yes		
E530	Tank 215	215 tank	Storage Vessel	P-1968		Yes		
E531	Tank 216	216 tank	Storage Vessel	P-1968		Yes		
E532	Tank 217	217 tank	Storage Vessel	P-1968		Yes		
E533	Tank 334	334 tank	Storage Vessel	P-1968		Yes		
E534	Tank 369	369 tank	Storage Vessel	P-1968		Yes		
E535	Tank 403	403 tank	Storage Vessel	P-1968		Yes		
E536	Tank 458	458 tank	Storage Vessel	P-1968		Yes		
E537	Tank 486	486 tank	Storage Vessel	P-1968		Yes		
E538	Tank 500	500 tank	Storage Vessel	P-1968		Yes		
E539	Tank 501	501 tank	Storage Vessel	P-1968		Yes		
E540	Tank 502	502 tank	Storage Vessel	P-1968		Yes		
E541	Tank 504	504 tank	Storage Vessel	P-1968		Yes		
E542	Tank 505	505 tank	Storage Vessel	P-1968		Yes		
E543	Tank 506	506 tank	Storage Vessel	P-1968		Yes		
E544	Tank 507	507 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E545	Tank 508	508 tank	Storage Vessel	P-1968		Yes		
E546	Tank 509	509 tank	Storage Vessel	P-1968		Yes		
E547	Tank 511	511 tank	Storage Vessel	P-1968		Yes		
E548	Tank 512	512 tank	Storage Vessel	P-1968		Yes		
E549	Tank 580	580 tank	Storage Vessel	P-1968		Yes		
E550	Tank 581	581 tank	Storage Vessel	P-1968		Yes		
E551	Tank 582	582 tank	Storage Vessel	P-1968		Yes		
E552	Tank 583	583 tank	Storage Vessel	P-1968		Yes		
E553	Tank 584	584 tank	Storage Vessel	P-1968		Yes		
E554	Tank 585	585 tank	Storage Vessel	P-1968		Yes		
E555	Tank 586	586 tank	Storage Vessel	P-1968		Yes		
E556	Tank 598	598 tank	Storage Vessel	P-1968		Yes		
E557	Tank 599	599 tank	Storage Vessel	P-1968		Yes		
E558	Tank 643	643 tank	Storage Vessel	P-1968		Yes		
E559	Tank 644	644 tank	Storage Vessel	P-1968		Yes		
E560	Tank 645	645 tank	Storage Vessel	P-1968		Yes		
E561	Tank 646	646 tank	Storage Vessel	P-1968		Yes		
E562	Tank 678	678 tank	Storage Vessel	P-1968		Yes		
E563	Tank 679	679 tank	Storage Vessel	P-1968		Yes		
E564	Tank 680	680 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E565	Tank 686	686 tank	Storage Vessel	P-1968		Yes		
E566	Tank 687	687 tank	Storage Vessel	P-1968		Yes		
E567	Tank 688	688 tank	Storage Vessel	P-1968		Yes		
E568	Tank 689	689 tank	Storage Vessel	P-1968		Yes		
E569	Tank 690	690 tank	Storage Vessel	P-1968		Yes		
E570	Tank 700	700 tank	Storage Vessel	P-1968		Yes		
E571	Tank 701	701 tank	Storage Vessel	P-1968		Yes		
E572	Tank 735	735 tank	Storage Vessel	P-1968		Yes		
E573	Tank 736	736 tank	Storage Vessel	P-1968		Yes		
E574	Tank 780	780 tank	Storage Vessel	P-1968		Yes		
E575	Tank 781	781 tank	Storage Vessel	P-1968		Yes		
E576	Tank 782	782 tank	Storage Vessel	P-1968		Yes		
E577	Tank 783	783 tank	Storage Vessel	P-1968		Yes		
E578	Tank 784	784 tank	Storage Vessel	P-1968		Yes		
E579	Tank 785	785 tank	Storage Vessel	P-1968		Yes		
E580	Tank 786	786 tank	Storage Vessel	P-1968		Yes		
E581	Tank 884	884 tank	Storage Vessel	P-1968		Yes		
E582	Tank 915	915 tank	Storage Vessel	P-1968		Yes		
E583	Tank 916	916 tank	Storage Vessel	P-1968		Yes		
E584	Tank 917	917 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E585	Tank 919	919 tank	Storage Vessel	P-1968		Yes		
E586	Tank 940	940 tank	Storage Vessel	P-1968		Yes		
E587	Tank 1004	1004 tank	Storage Vessel	P-1968		Yes		
E588	Tank 1038	1038 tank	Storage Vessel	P-1968		Yes		
E589	Tank 1103	1103 tank	Storage Vessel	P-1968		Yes		
E590	Tank 1119	1119 tank	Storage Vessel	P-1968		Yes		
E591	Tank 1120	1120 tank	Storage Vessel	P-1968		Yes		
E592	Tank 1121	1121 tank	Storage Vessel	P-1968		Yes		
E593	Tank 1122	1122 tank	Storage Vessel	P-1968		Yes		
E594	Tank 1123	1123 tank	Storage Vessel	P-1968		Yes		
E595	Tank 1124	1124 tank	Storage Vessel	P-1968		Yes		
E596	Tank 1125	1125 tank	Storage Vessel	P-1968		Yes		
E597	Tank 1126	1126 tank	Storage Vessel	P-1968		Yes		
E598	Tank 1127	1127 tank	Storage Vessel	P-1968		Yes		
E599	Tank 1128	1128 tank	Storage Vessel	P-1968		Yes		
E600	Tank 1129	1129 tank	Storage Vessel	P-1968		Yes		
E601	Tank 1130	1130 tank	Storage Vessel	P-1968		Yes		
E602	Tank 1147	1147 tank	Storage Vessel	P-1968		Yes		
E603	Tank 1336	1336 tank	Storage Vessel	P-1968		Yes		
E604	Tank 1337	1337 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E605	Tank 1417	1417 tank	Storage Vessel	P-1968		Yes		
E606	Tank 1418	1418 tank	Storage Vessel	P-1968		Yes		
E607	Tank 1421	1421 tank	Storage Vessel	P-1968		Yes		
E608	Tank 1422	1422 tank	Storage Vessel	P-1968		Yes		
E609	Tank 1424	1424 tank	Storage Vessel	P-1968		Yes		
E610	Tank 1432	1432 tank	Storage Vessel	P-1968		Yes		
E611	Tank 1433	1433 tank	Storage Vessel	P-1968		Yes		
E612	Tank 1434	1434 tank	Storage Vessel	P-1968		Yes		
E613	Tank 1435	1435 tank	Storage Vessel	P-1968		Yes		
E614	Tank 1436	1436 tank	Storage Vessel	P-1968		Yes		
E615	Tank 1437	1437 tank	Storage Vessel	P-1968		Yes		
E616	Tank 1438	1438 tank	Storage Vessel	P-1968		Yes		
E617	Tank 1442	1442 tank	Storage Vessel	P-1968		Yes		
E618	Tank 1443	1443 tank	Storage Vessel	P-1968		Yes		
E619	Tank 1444	1444 tank	Storage Vessel	P-1968		Yes		
E620	Tank 1445	1445 tank	Storage Vessel	P-1968		Yes		
E621	Tank 1446	1446 tank	Storage Vessel	P-1968		Yes		
E622	Tank 1492	1492 tank	Storage Vessel	P-1968		Yes		
E623	Tank 1493	1493 tank	Storage Vessel	P-1968		Yes		
E624	Tank 1494	1494 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E625	Tank 1495	1495 tank	Storage Vessel	P-1968		Yes		
E626	Tank 1496	1496 tank	Storage Vessel	P-1968		Yes		
E627	Tank 1497	1497 tank	Storage Vessel	P-1968		Yes		
E628	Tank 1553	1553 tank	Storage Vessel	P-1968		Yes		
E629	Tank 1554	1554 tank	Storage Vessel	P-1968		Yes		
E630	Tank 1558	1558 tank	Storage Vessel	P-1968		Yes		
E631	Tank 1559	1559 tank	Storage Vessel	P-1968		Yes		
E632	Tank 1560	1560 tank	Storage Vessel	P-1968		Yes		
E633	Tank 1824	1824 tank	Storage Vessel	P-1968		Yes		
E634	Tank 1825	1825 tank	Storage Vessel	P-1968		Yes		
E635	Tank 1826	1826 tank	Storage Vessel	P-1968		Yes		
E636	Tank 1900	1900 tank	Storage Vessel	P-1968		Yes		
E637	Tank 1901	1901 tank	Storage Vessel	P-1968		Yes		
E638	Tank 1902	1902 tank	Storage Vessel	P-1968		Yes		
E639	Tank 1903	1903 tank	Storage Vessel	P-1968		Yes		
E640	Tank 2857	2857 tank	Storage Vessel	P-1968		Yes		
E641	Tank 2858	2858 tank	Storage Vessel	P-1968		Yes		
E642	Tank 563	563 tank	Storage Vessel	P-1968		Yes		
E643	Tank 1314	1314 tank	Storage Vessel	P-1968		Yes		
E644	Tank 1313	1313 tank	Storage Vessel	P-1968		Yes		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E645	Tank 1312	1312 tank	Storage Vessel	P-1968		Yes		
E646	Tank 1419	1419 tank	Storage Vessel	P-1968		Yes		
E647	Tank 1420	1420 tank	Storage Vessel	P-1968		Yes		
E648	Tank 2801	2801 tank	Storage Vessel	P-1968		Yes		
E649	Tank 2802	2802 tank	Storage Vessel	P-1968		Yes		
E650	Tank 2803	2803 tank	Storage Vessel	P-1968		Yes		
E651	Tank 2804	2804 tank	Storage Vessel	P-1968		Yes		
E652	Tank 2805	2805 tank	Storage Vessel	P-1968		Yes		
E653	Biorem	Bioremediation	Other Equipment			No		
E657	Petcoke Hopp	Petroleum Coke Material Handling Operations-Hopper	Manufacturing and Materials Handling Equipment			No		
E658	Petcoke Conv	Petroleum Coke Material Handling-Conveyor	Manufacturing and Materials Handling Equipment			No		
E671	NP Pump#1	North Pond: Diesel Driven Pump No.1	Stationary Reciprocating Engine		8/1/2009	No		
E672	NP Pump#2	North Pond: Diesel Driven Pump No.2	Stationary Reciprocating Engine		8/1/2009	No		
E673	4193 tk	08-F-290 (4193 tk) EFR North Pond Stormwater Diversion Tank Diversion Tank	Storage Vessel		8/1/2009	No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E674	ERB Pump#1	ERB WWTP: Diesel Driven Pump No.1	Stationary Reciprocating Engine		10/1/2009	No		
E675	ERB Pump#2	ERB WWTP: Diesel Driven Pump No.2	Stationary Reciprocating Engine		10/1/2009	No		
E676	4194 tk	ERF Stormwater Tank 4194 at ERB	Storage Vessel		8/1/2009	No		
E677	4195 tk	ERF Stormwater Tank 4195 at ERB	Storage Vessel		8/1/2009	No		
E678	NP Sump	North Pond: QQQ Sump	Other Equipment		6/1/2009	No		
E679	ERB Sump	ERB: QQQ Sump at WWTP	Other Equipment		6/1/2009	No		
E680	Sldge Diesel	Diesel Engine	Other Equipment		10/31/2014	No		
E701	TGU80	U7- TGU Absorber Vent	Other Equipment			No		
E702	TGU81	U7 - TGU Absorber Vent	Other Equipment			No		
E1000	Landfill	Landfill vents	Landfill		1/1/1984		6/30/2009	
E1200	CCR Heater	Tier II Heater- CCR Heater	Process Heater			No		
E1201	CCR Reblr#1	Tier II Heater- CCR Reboiler #1	Process Heater			No		
E1202	CCR Reblr#2	Tier II Heater- CCR Reboiler #2	Process Heater			No		
E1203	CCr Ref Htr	CCR Reformate Splitter Heater	Fuel Combustion Equipment (Other)		12/31/2016	No		
E1204	Ptr B-1	New NHT heater	Fuel Combustion Equipment (Other)	020001	4/1/2004	No		

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1310	CCR Vent	CCR Chlorsorb Process Vent	Other Equipment		10/1/2004	No		
E1313	MPE UNIT	Liquid Knockout Tank	Other Equipment					
E1314	MPE UNIT	Oil/Water Separator	Other Equipment					
E1315	MPE UNIT	Liquid Ring Vacuum Pump	Other Equipment					
E1316	MPE UNIT	Product Storage Tank	Storage Vessel					
E1400	Multiloader	FCCU Catalyst Multiloader	Manufacturing and Materials Handling Equipment			No		
E20001	Boiler 3A	Utility Plant: Package Boiler 3A - Non-utility boiler	Boiler			No		
E20002	Boiler 3B	Utility Plant: Package Boiler 3B - Non-utility boiler	Boiler			No		

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1 (Process Heater)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	220
Draft Type:	Natural and induced
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	Process Heater
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	176
Draft Type:	Natural
Firing Method:	

Is the Process Heater using (check all that apply):

Low NOx Burner	☑
Type of Low NOx Burner:	Calidus
Flue Gas Recirculation (FGR):	☐

Have you attached a diagram showing the location and/or the configuration of this equipment? ○ Yes ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? ○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E2 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	107
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	Calidus
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E3 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	139.5
Draft Type:	Forced Draft
Firing Method:	wall - fired
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	J.Zink
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E3 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	Process Heater
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	139.5
Draft Type:	Forced
Firing Method:	

Is the Process Heater using (check all that apply):

Low NOx Burner	☑
Type of Low NOx Burner:	J. Zink
Flue Gas Recirculation (FGR):	☐

Have you attached a diagram showing the location and/or the configuration of this equipment? ○ Yes ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? ○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E4 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	173
Draft Type:	natural draft
Firing Method:	wall fired
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	Calidus
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	No
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E5 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	125
Draft Type:	natural draft
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E5 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	Coker Heater A
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	125
Draft Type:	Natural
Firing Method:	Direct

Is the Process Heater using (check all that apply):

Low NOx Burner	☑
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	☐

Have you attached a diagram showing the location and/or the configuration of this equipment? ○ Yes ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? ○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E6 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	125
Draft Type:	natural draft
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E6 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	Coker Heater B
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	125
Draft Type:	Natural
Firing Method:	Direct

Is the Process Heater using (check all that apply):

Low NOx Burner	☑
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	☐

Have you attached a diagram showing the location and/or the configuration of this equipment? ○ Yes ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? ○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E10 (Process Heater)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	24
Draft Type:	natural
Firing Method:	wall fired
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E11 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	170
Draft Type:	
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E12 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	49.28
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	18
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E14 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	97.1
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E16 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	70
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E17 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	25
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E18 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	69
Draft Type:	natural
Firing Method:	Horizontal
Is the Process Heater using?	
Low NOx Burner	Yes
Type of Low NOx Burner:	John Zink
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E19 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	9
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E20 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	60
Draft Type:	natural
Firing Method:	vertical
Is the Process Heater using?	
Low NOx Burner	no
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type:	Fluidized Catalytic Cracking Unit
Capacity:	
Units:	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E22 (Process Heater)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	102
Draft Type:	
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E23 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	392,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	29.00
Length (ft):	
Width (ft):	
Diameter (ft):	50.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	10050
Units:	FT3
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E28 (Manufacturing and Materials Handling Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	gasoline loading at marine termina'
Capacity:	3.00E+05
Units:	other units
Description (if other):	gallons per hour and 150,000,000 gal/yr
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	U26

Make:	Flare
Manufacturer:	Zeeco
Model:	Guyed Wired Flare
Equipment Type Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.13
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	South Plant New Flare
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	No.
Comments:	Max Flow 40,000 scfm

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	North Plant Flare
Maximum Rated Gross Heat Input (MMBtu/hr):	
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E36 (Boiler)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	484.00
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Both Steam and Electricity
Steam Output (lb/hr):	300,000.00
Fuel Firing Method:	Wall-fired or cross-fired
Description (if other):	
Draft Type:	Induced
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☑	Type:	
Staged Air Combustion:	☐		
Flue Gas Recirculation (FGR):	☐	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E37 (Boiler)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	485.00
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Both Steam and Electricity
Steam Output (lb/hr):	300,000.00
Fuel Firing Method:	Wall-fired or cross-fired
Description (if other):	
Draft Type:	Forced
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☑	Type:	
Staged Air Combustion:	☐		
Flue Gas Recirculation (FGR):	☐	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E38 (Boiler)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	484.00
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Both Steam and Electricity
Steam Output (lb/hr):	300,000.00
Fuel Firing Method:	Wall-fired or cross-fired
Description (if other):	
Draft Type:	Forced
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☑	Type:	
Staged Air Combustion:	☐		
Flue Gas Recirculation (FGR):	☐	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E39 (Combustion Turbine)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Type of Turbine:	combined cycle
Maximum Rated Gross Heat Input (MMBtu/hr):	450
Type of Cycle:	
Industrial Application:	
Power Output:	31
Units:	MW
Is the combustion turbine using?	
A Dry Low NOx Combustor	
Steam Injection	yes
Steam to Fuel Ratio	yes
Water Injection	
Water to Fuel Ratio	
Other	
Description:	
Is the turbine Equipped with a Duct Burner?	yes
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	Heat recovery steam generator
Maximum Rated Gross Heat Input (MMBtu/hr):	265
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type:	hopper
Capacity:	12700
Units:	FT3
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E56 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	205,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	20.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	Lube oil storage - fixed roof tank
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E57 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	400,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	Lube oil storage - fixed roof tank
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E58 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	400,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	Lube oil storage - fixed roof tank
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E59 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	400,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	Beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E60 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	400,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E61 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	303,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	Beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	48.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E62 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	300,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	Beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	48.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E63 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	Beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	231.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E64 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	231.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E65 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	233.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E66 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	silver
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	231.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E67 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,470,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	93.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	263.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E68 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	199,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	20.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E69 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	199,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	20.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E70 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	255,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E71 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,226,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	144.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	263.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E72 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	263.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E73 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	230.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E74 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	257,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E75 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	257,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E76 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	257,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E77 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,230,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	263.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E78 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	260,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	231.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E79 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E80 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E81 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	399,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E82 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	125,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	30.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E83 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	85,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E84 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	413,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E85 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	612,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E89 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,593,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	95.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E90 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E86 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,300,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	93.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	583.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E92 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	410,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E93 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	410,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E94 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	410,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E95 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	400,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E91 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E96 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	27.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	wastewater and petroleum hydrocarbons storage

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E97 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	412,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Light)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	27.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E98 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,940,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	450.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E99 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	392,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	29.00
Length (ft):	
Width (ft):	
Diameter (ft):	50.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E100 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	392,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	29.00
Length (ft):	
Width (ft):	
Diameter (ft):	50.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E101 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	114,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	12.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	315.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E102 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	844,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	70.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E103 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	806,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	70.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E104 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	140.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E105 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	500,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	133.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E106 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	490,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	130.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E107 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,050,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	41.00
Length (ft):	
Width (ft):	
Diameter (ft):	70.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E109 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	438.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E110 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	378.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E112 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	490,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	55.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E113 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	790,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	70.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E114 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E115 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,250,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E116 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E117 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	940,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	70.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E118 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E120 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	924,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	46.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E121 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	924,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	46.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E122 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,264,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	560.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E125 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	270,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	43.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	560.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E123 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	380.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E124 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	380.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E126 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,500,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	46.00
Length (ft):	
Width (ft):	
Diameter (ft):	79.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	730.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E128 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,112,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Shoe mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E129 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,098,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E130 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,041,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E131 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,112,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	3,500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E132 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,203,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Domed external floating roof
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E133 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,260,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E134 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,160,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	295.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E135 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	550,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	39.00
Length (ft):	
Width (ft):	
Diameter (ft):	51.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	730.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E136 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	350,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	40.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E137 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	350,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	40.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E138 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	27,700
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E139 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	27,700
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.50
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E140 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	82,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	20.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E142 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	84,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E143 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	80,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E144 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	117,300
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	12.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E141 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	84,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E145 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	100,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	12.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E146 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	100,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	12.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E147 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	100,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	12.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E148 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,880,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	120.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E149 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	330,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	40.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E150 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	330,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	40.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E151 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	40,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	22.00
Length (ft):	
Width (ft):	
Diameter (ft):	18.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E152 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	420,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E153 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	420,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E154 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	420,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E155 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	420,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E156 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	420,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E157 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	475,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E158 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	475,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E159 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	467,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E160 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	467,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E161 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	798,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E162 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	737,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	350.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E164 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	235,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	36.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E165 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	235,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	36.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E166 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	235,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	36.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E167 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	235,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	36.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E168 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	31,700
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	14.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	56.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E169 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	31,700
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	14.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	3.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E170 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E171 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E172 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E173 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E174 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E175 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E176 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	695,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	56.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E180 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	245,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	36.00
Length (ft):	
Width (ft):	
Diameter (ft):	35.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	203.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E181 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	245,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	36.00
Length (ft):	
Width (ft):	
Diameter (ft):	35.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	203.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E182 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	245,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	36.00
Length (ft):	
Width (ft):	
Diameter (ft):	35.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	203.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E183 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	483,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	45.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	203.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E184 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	5,900,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	150.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E185 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	5,700,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	silver
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	150.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E186 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	37,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	17.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E187 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	37,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	17.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E188 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	37,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	17.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E190 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	410.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E194 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	476,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	54.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E189 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	37,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	25.00
Length (ft):	
Width (ft):	
Diameter (ft):	17.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	150.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E191 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	410.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E192 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	410.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E193 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	60.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	410.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E195 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	14,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	13.00
Length (ft):	
Width (ft):	
Diameter (ft):	15.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E196 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	80,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	34.00
Length (ft):	
Width (ft):	
Diameter (ft):	24.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Carbon adsorption unit

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E197 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	80,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	34.00
Length (ft):	
Width (ft):	
Diameter (ft):	24.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Carbon Adsorption Unit

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E198 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	4,160,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	insulated
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	Yes
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	50.00
Length (ft):	
Width (ft):	
Diameter (ft):	120.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	650.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E199 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	4,160,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	insulated
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	Yes
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	50.00
Length (ft):	
Width (ft):	
Diameter (ft):	120.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	650.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E207 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,260,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	67.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E208 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,260,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	67.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E209 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	100.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	600.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E210 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	100.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	600.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E211 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	44,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	24.00
Length (ft):	
Width (ft):	
Diameter (ft):	18.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E212 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	44,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	24.00
Length (ft):	
Width (ft):	
Diameter (ft):	18.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E214 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	88,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	24.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E215 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	88,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	24.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E216 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	88,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	24.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E217 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,360,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	106.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	3,500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Vapor Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E218 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	126,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	50.00
Length (ft):	
Width (ft):	
Diameter (ft):	27.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Carbon Adsorption Unit

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E219 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,100,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	80.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	70.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E221 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,678,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	143.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	3,500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E223 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	84,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	18.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E229 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	29,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	17.00
Length (ft):	
Width (ft):	
Diameter (ft):	17.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	75.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E220 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,300,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	143.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	3,500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Vapor Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E224 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	84,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	18.00
Length (ft):	
Width (ft):	
Diameter (ft):	25.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	210.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E225 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	126,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	50.00
Length (ft):	
Width (ft):	
Diameter (ft):	27.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E226 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	42,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	16.00
Length (ft):	
Width (ft):	
Diameter (ft):	21.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	75.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E227 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,646,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	90.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	5,700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Internal floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	None
Total Number of Seals:	1
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E230 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	4,240,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	58.00
Length (ft):	
Width (ft):	
Diameter (ft):	110.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	7,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Vapor Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E231 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	13,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	16.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	caustic

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E232 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	20,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	13.00
Length (ft):	
Width (ft):	
Diameter (ft):	20.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	75.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E233 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	110,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	24.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	635.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E234 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	110,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	32.00
Length (ft):	
Width (ft):	
Diameter (ft):	24.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	634.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E235 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	11,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	19.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	75.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E236 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	11,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	19.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	75.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E237 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	80.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	230.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E238 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,460,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	48.00
Length (ft):	
Width (ft):	
Diameter (ft):	73.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	600.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E239 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	10.50
Length (ft):	
Width (ft):	
Diameter (ft):	6.75
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E240 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	274,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	40.00
Length (ft):	
Width (ft):	
Diameter (ft):	34.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E241 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	25,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	20.00
Length (ft):	
Width (ft):	
Diameter (ft):	15.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	60.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E242 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	25,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	20.00
Length (ft):	
Width (ft):	
Diameter (ft):	15.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	60.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E243 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	20,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	green
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	26.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	5.60
Units:	gal/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E244 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	20,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	green
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	26.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	5.60
Units:	gal/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E245 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	27,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	concrete
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	6.00
Length (ft):	35.00
Width (ft):	18.00
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	5.60
Units:	gal/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E246 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	27,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	concrete
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	6.00
Length (ft):	35.00
Width (ft):	18.00
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	5.60
Units:	gal/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E247 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	16,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	19.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E249 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,184,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E250 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,140,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	14.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E251 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,225,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E253 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E255 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,562,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	200.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E256 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,667,000
Units:	ft^3
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	875.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E257 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	Good
Shell Construction:	Bolted/Riveted
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	30.00
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E258 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,150,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	400.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E259 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,096,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	280.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E260 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,500,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	14.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	600.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E261 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,540,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E262 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,610,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E263 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,630,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	35.00
Length (ft):	
Width (ft):	
Diameter (ft):	115.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E264 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,225,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,167.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E265 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,217,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	440.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E266 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,190,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	440.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E267 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,210,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,110.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E268 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,175,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Gray (Medium)
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	440.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E269 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,230,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	118.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E270 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,220,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,167.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E271 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,280,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	43.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	1,300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E272 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,270,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	1,300.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E273 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,210,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,167.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E274 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,180,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,108.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E275 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,210,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,167.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E276 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E277 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,190,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E279 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E280 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,230,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E281 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,180,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E282 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,180,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	1,166.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E283 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E284 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	3,230,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	beige
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	42.00
Length (ft):	
Width (ft):	
Diameter (ft):	117.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E285 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	12,600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	200.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	21,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Vapor Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E286 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	12,600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	200.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	21,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E287 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	12,600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	64.00
Length (ft):	
Width (ft):	
Diameter (ft):	188.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	21,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E288 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	12,600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	64.00
Length (ft):	
Width (ft):	
Diameter (ft):	188.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	21,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E289 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	12,600,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	64.00
Length (ft):	
Width (ft):	
Diameter (ft):	188.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	21,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E290 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	28,350,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	64.00
Length (ft):	
Width (ft):	
Diameter (ft):	280.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	42,000.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Mechanical Shoe
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E292 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,300,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	143.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E294 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	14,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	18.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E295 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	14,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	18.00
Length (ft):	
Width (ft):	
Diameter (ft):	12.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E291 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	6,300,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	56.00
Length (ft):	
Width (ft):	
Diameter (ft):	143.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E293 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,700,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	43.00
Length (ft):	
Width (ft):	
Diameter (ft):	90.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	70.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	External floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	Pontoon deck
Primary Seal Type:	Liquid Mounted Resilient
Secondary Seal Type:	Rim mounted
Total Number of Seals:	2
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E296 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	10,100
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	17.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E297 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	45,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	21.00
Length (ft):	
Width (ft):	
Diameter (ft):	19.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E298 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	13,500
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	21.00
Length (ft):	
Width (ft):	
Diameter (ft):	10.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	500.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E299 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Both Solids and Liquids
Storage Vessel Type:	Bin
Design Capacity:	33,000
Units:	ft^3
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	53.00
Length (ft):	
Width (ft):	
Diameter (ft):	28.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	ft^3/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E300 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Both Solids and Liquids
Storage Vessel Type:	Bin
Design Capacity:	33,000
Units:	ft^3
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	53.00
Length (ft):	
Width (ft):	
Diameter (ft):	28.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	700.00
Units:	ft^3/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E301 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	4,800
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	10.00
Length (ft):	
Width (ft):	
Diameter (ft):	9.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	100.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	water separator
Capacity:	450000
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	water separator
Capacity:	450000
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	water separator
Capacity:	5000000
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	sulfur analyzers
Capacity:	5
Units:	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	SRU # 3 analyzers

Make:	
Manufacturer:	
Model:	
Equipment Type:	sulfur analyzers
Capacity:	5
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	Sulfur loading rack
Capacity:	30000
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E310 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	100,000
Units:	gallons
Ground Location:	Below Ground
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	12.00
Length (ft):	62.50
Width (ft):	18.00
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	cement sump - sulfur vapors educted to incinerator

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E311 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	100,000
Units:	gallons
Ground Location:	Below Ground
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	12.00
Length (ft):	62.50
Width (ft):	18.00
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Cement sump -sulfur vapors educted to incinerator

Make:	
Manufacturer:	
Model:	
Equipment Type:	Catalyst regeneration
Capacity:	750
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Tail gas unit # 80 catalyst regeneration

Make:	
Manufacturer:	
Model:	
Equipment Type:	Catalyst regeneration
Capacity:	750
Units:	lbs/hr
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E320 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	3.82 (1500 bhp)
Class:	
Duty:	
Description:	Diesel RICE. No. 89 River Water
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E323 (Emergency Generator)
Print Date: 1/13/2017

Make:	
Manufacturer:	Caterpillar
Model:	IT4 C15
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	
Will the equipment be used in excess of 500 hours per year?	● Yes ○ No
Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ● No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No
Comments:	475 BHP

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E324 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	3.82 (1500 bhp)
Class:	
Duty:	
Description:	Diesel RICE. Fire pump @ 1185 Tank
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E325 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.47 (575 bhp)
Class:	
Duty:	
Description:	Diesel RICE. G-201 Water Intake
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E326 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.47 (575 bhp)
Class:	
Duty:	
Description:	Diesel RICE. G-202 Fire Water
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E327 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.47 (575 bhp)
Class:	
Duty:	
Description:	Diesel RICE. G-203 Fire Water
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E328 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.17 (460 bhp)
Class:	
Duty:	
Description:	Diesel RICE. G-205 Fire Water
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	
Compression Ratio:	
Ignition Type:	
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	
A NOx Converter	
Air to Fuel Adjustment (AF)	
Ignition Timing Retard	
Low Emission Combustion	
Non-Selective Catalytic Retard (NSCR)	
Other	
Description:	none

Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E338 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,900
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	6 ft diam 9 ft tall

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E339 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,900
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	6 ft diam 9 ft tall

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E340 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,900
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	6 ft diam 9 ft tall

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E513 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,200,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	black
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	30.00
Length (ft):	
Width (ft):	
Diameter (ft):	114.00
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Bottom Pipe
Description (if other):	
Maximum Design Fill Rate:	2,800.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	
Manufacturer:	
Model:	
Equipment Type:	Bioremedation treatment facility
Capacity:	4000
Units:	cubic yards
Have you attached a diagram showing the location and/or configuration of this equipment?	No
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E657 (Manufacturing and Materials Handling Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Petroleum Coke Material Handling
Capacity:	
Units:	
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E658 (Manufacturing and Materials Handling Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Petcoke Conveyor
Capacity:	
Units:	
Description (if other):	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E672 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	0.64
Class:	
Description:	
Duty:	
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	
Power Output (BHP):	250
Electric Output(KW):	
Compression Ratio:	
Ignition Type:	
Description:	
Engine Speed (RPM):	
Engine Exhaust Temperature (°F):	
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	○ Yes ● No
Is the Engine Using an Aftercooler?	○ Yes ● No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☐	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☐		

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ● No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E673 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Both Solids and Liquids
Storage Vessel Type:	Tank
Design Capacity:	5
Units:	MMgals
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	Good
Shell Construction:	Welded
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	
Does the storage vessel have a roof or an open top?	
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E671 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	0.64
Class:	
Description:	
Duty:	
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	
Power Output (BHP):	250
Electric Output(KW):	
Compression Ratio:	
Ignition Type:	
Description:	
Engine Speed (RPM):	
Engine Exhaust Temperature (°F):	
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	○ Yes ● No
Is the Engine Using an Aftercooler?	○ Yes ● No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☐	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☐		

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ● No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E674 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	0.64
Class:	
Description:	
Duty:	
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	
Power Output (BHP):	250
Electric Output(KW):	
Compression Ratio:	
Ignition Type:	
Description:	
Engine Speed (RPM):	
Engine Exhaust Temperature (°F):	
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	○ Yes ● No
Is the Engine Using an Aftercooler?	○ Yes ● No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☐	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☐		

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ● No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E675 (Stationary Reciprocating Engine)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr):	0.64
Class:	
Description:	
Duty:	
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	
Power Output (BHP):	250
Electric Output(KW):	
Compression Ratio:	
Ignition Type:	
Description:	
Engine Speed (RPM):	
Engine Exhaust Temperature (°F):	
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	○ Yes ● No
Is the Engine Using an Aftercooler?	○ Yes ● No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☐	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☐		

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ● No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E676 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Both Solids and Liquids
Storage Vessel Type:	Tank
Design Capacity:	3
Units:	MMgals
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	Good
Shell Construction:	Welded
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	
Does the storage vessel have a roof or an open top?	
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E677 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Both Solids and Liquids
Storage Vessel Type:	Tank
Design Capacity:	3
Units:	MMgals
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	Good
Shell Construction:	Welded
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	
Description (if other):	
Maximum Design Fill Rate:	
Units:	
Does the storage vessel have a roof or an open top?	
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E678 (Other Equipment)
Print Date: 1/13/2017

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E679 (Other Equipment)
Print Date: 1/13/2017

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E680 (Other Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	John Deere
Model:	JD4045T290
Equipment Type:	75 bhp
Capacity:	0.20
Units:	MMBTU/hr (HHV)
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ● Yes
- ○ No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1000 (Landfill) Print Date: 1/13/2017

Pollutant	Concentration	Units
Amines		
CO2		
Chlorides		
H2S		
Mercaptans		
Mercury		
Methane		
Non-Methane Hydrocarbons		

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1000 (Landfill)
Print Date: 1/13/2017

Solid Waste Facility Permit Number:	132178
Year Opened:	1984
Solid Waste Facility Permit Issuance Date:	
Expected Year of Closure:	2009
Actual Year of Closure:	2009
Total Design Area (acres):	10.0
Total Design Capacity (megagrams):	81.48
Active Area (acres):	10.0
Capped Area (acres):	10.0
Is the Landfill Lined?	○ Yes ● No
Was the site used for the disposal of Hazardous Waste?	○ Yes ● No
Was there ever co-disposal of Industrial Waste or reason to believe that the Waste Stream into the Landfill contained large Waste or volatile compounds from commercial sources?	○ Yes ● No
Maximum Estimated Landfill Gas Generation Rate during the life of the Landfill (ft^3/yr):	
Model used to estimate Landfill Gas Production:	Landgem V3.02
Is there a Landfill Gas Pre-Treatment System?	○ Yes ● No
Method of Landfill Gas Pre-Treatment:	
Design Capacity of Landfill Gas Collection System (acfm):	
Overall Collection Efficiency(%):	
Landfill Gas Mover/Blower size (hp):	
Number of Extraction Wells:	
Extraction Well Diameter (ft):	
Extraction Well Depth (ft):	
Extraction Well Overlap (%):	
Extraction Well Operating Vacuum (in. H20):	
Have you attached Actual Landfill Gas Analysis?	○ Yes ● No
Have you attached a layout (plan view) of the wells and header piping?	○ Yes ● No
Have you attached a waste deposition history (provide tons deposited for each operating year)?	○ Yes ● No
Comments:	Landfill consists of construction debris.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1200 (Process Heater)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	500
Draft Type:	natural
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1201 (Process Heater)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	50
Draft Type:	natural
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1202 (Process Heater)
Print Date: 1/13/2017

Make:	NA
Manufacturer:	NA
Model:	NA
Equipment Type Description:	process heater
Maximum Rated Gross Heat Input (MMBtu/hr):	30
Draft Type:	natural
Firing Method:	
Is the Process Heater using?	
Low NOx Burner	yes
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR)	
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1203 (Fuel Combustion Equipment (Other))
Print Date: 1/13/2017

Make:	Natural Draft Vertical Cylindrical Heater
Manufacturer:	Optimized Process Furnaces, Inc
Model:	NA
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	60.00
Type of Heat Exchange:	Indirect
Equipment Type Description:	Natural draft process heater for reformate splitter unit. Indirect, refinery fuel gas fired heater.

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	
Manufacturer:	
Model:	
Equipment Type Description:	
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	72 MMBTU/hr
Type of Heat Exchange:	
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1313 (Other Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	120.00
Units:	gallons
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1314 (Other Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	500.00
Units:	gallons
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1315 (Other Equipment)
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Equipment Type:	
Capacity:	400.00
Units:	SCFM
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1316 (Storage Vessel)
Print Date: 1/13/2017

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	4,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	Good
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickness (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	8.00
Length (ft):	10.80
Width (ft):	10.80
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E1400 (Manufacturing and Materials Handling Equipment)
Print Date: 1/13/2017

Make:	Multiloader
Manufacturer:	Various
Model:	Various
Type of Manufacturing and Materials Handling Equipment:	Pneumatic
Capacity:	3.50E+02
Units:	other units
Description (if other):	lbs
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	See Filter Efficiency Data

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E20001 (Boiler)
Print Date: 1/13/2017

Make:	Boiler 3A
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	90.00
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	

Is the boiler using? (check all that apply):

Low NOx Burner:	☐	Type:	
Staged Air Combustion:	☐		
Flue Gas Recirculation (FGR):	☐	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

No

Comments: This boiler will be rented and may not be on-site the entire year. Since the boiler is rented annually, the make, model and/or serial number may change each year.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 E20002 (Boiler)
Print Date: 1/13/2017

Make:	Boiler 3A
Manufacturer:	
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	90.00
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	

Is the boiler using? (check all that apply):

Low NOx Burner:	☐	Type:	
Staged Air Combustion:	☐		
Flue Gas Recirculation (FGR):	☐	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	This boiler will be rented and may not be on-site the entire year. Since the boiler is rented annually, the make, model and/or serial number may change each year.

PAULSBORO REFINING COMPANY LLC (55829) Date: 1/13/2017

BOP160002

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD5	MVR flare	Marine vapor recovery	Oxidizer (Thermal)		No	1/1/1990	
CD7	Carbon 1917	1917/1918 carbon canister	Other		No	1/1/1991	
CD8	Carbon 1919	1919/1920 carbon canister	Other		No	1/1/1991	
CD9	Carbon 2417	2417/2418 carbon canister	Other		No	1/1/1991	
CD10	Carbon 2885	2885/2983 carbon canister	Other		No	1/1/1991	
CD12	FCC cat hand	FCC catalyst handling	Scrubber (Venturi)		No	1/1/1980	
CD15	SRU Inc.	SRU Incinerator	Oxidizer (Thermal)		No	1/1/1985	
CD16	FCC Scrubber	Wet Scrubber	Scrubber (Multi-Stage)		No		
CD17	CCR Vent	CCR Chlorsorb	Other		No		
CD20	HE Filters	FCCU Catalyst Loader with Particulate Filters	Particulate Filter (Cartridge)		No		
CD305001	API Carbon 1	WWTP: API Separator Carbon Units (Inlet-side)	Adsorber		No		
CD305002	API Carbon 2	WWTP: API Separator Carbon Units (Inlet-side)	Adsorber		No		
CD305003	API Carbon 3	WWTP: API Separator Carbon Units (Inlet-side)	Adsorber		No		
CD305004	API Carbon 4	WWTP: API Separator Carbon Units (outlet-side)	Adsorber		No		
CD305005	API Carbon 5	WWTP: API Separator Carbon Units (outlet-side)	Adsorber		No		
CD305006	API Carbon 6	WWTP: API Separator Carbon Units (outlet-side)	Adsorber		No		

PAULSBORO REFINING COMPANY LLC (55829) Date: 1/13/2017

BOP160002

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD305009	MPE UNIT	Vapor Phase Granular Activated Carbon	Adsorber		No		
CD305010	MPE UNIT	Vapor Phase Granular Activated Carbon	Adsorber		No		
CD305011	MPE UNIT	Vapor Phase Granular Activated Carbon	Adsorber		No		

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD5 (Oxidizer (Thermal))
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	
Minimum Chamber Temperature (deg F):	1500
Minimum Residence Time (sec):	0.5
Fuel Type:	propane
Maximum Rated Gross Heat Input (MMBtu/hr):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	UV scanner
Have you attached data from recent performance testing?	
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	Min. heat content at tip 1020 Btu/ft3

Control Device Design Efficiency Tabl

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	99
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD12 (Scrubber (Venturi))
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	Water
Is the Scrubber used for Particulate Control?	
Is the Scrubber used for Gas Control?	
Is the Scrubber Equipped with a Mist Eliminator?	
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	10
Maximum Operating Liquid Flow Rate (gpm):	50
Method of Monitoring Liquid Flow Rate:	NA
Minimum Operating Gas Flow Rate (acfm):	500
Maximum Operating Gas Flow Rate (acfm):	1500
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Throat Length (in):	
Throat Diameter (in):	
Liquid Introduction Mechanism:	
Type of Nozzle:	
Maximum Inlet Gas Temperature (deg F):	1300

Maximum Outlet Gas Temperature (deg F):	250
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	

Control Device Design Efficiency Tabl

Pollutant Category	Design Efficiency (%)
PM-10	99
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD15 (Oxidizer (Thermal))
Print Date: 1/13/2017

Make:	
Manufacturer:	
Model:	SRU Incinerator
Minimum Chamber Temperature (deg F):	500
Minimum Residence Time (sec):	0.5
Fuel Type:	Refinery fuel gas
Maximum Rated Gross Heat Input (MMBtu/hr):	20
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	10
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	E248, E322, E313, E314, E308,EE307,E

Control Device Design Efficiency Tabl

Pollutant Category	Design Efficiency (%)
PM-10	
TSP	
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD16 (Scrubber (Multi-Stage))
Print Date: 1/13/2017

Make:	
Manufacturer:	Belco
Model:	
Scrubber Type:	Spray Tower
Description:	
Is the Scrubber used for Particulate Control?	yes
Is the Scrubber used for Gas Control?	yes (SO2)
Is the Scrubber Equipped with a Mist Eliminator?	
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	
Maximum Operating Gas Flow Rate (acfm):	240535
Method of Monitoring Gas Flow Rate:	
Minimum Operating Pressure Drop (in. H2O):	20
Maximum Operating Pressure Drop (in. H2O):	24
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	
Number of Plates:	
Type of Plates:	

Spacing Between Plates (in.):	
Maximum Inlet Gas Temperature (deg F):	600
Maximum Outlet Gas Temperature (deg F):	148
Inlet Particle Grain Loading (gr/dscf):	0.2
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	2
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	no
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	no
Have you attached a diagram showing the location and/or configuration of this control apparatus?	no
Comments:	

Control Device Design Efficiency Tabl

Pollutant Category	Design Efficiency (%)
PM-10	90
TSP	90
VOC	
NOx	
SO2	96.3
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD20 (Particulate Filter (Cartridge))
Print Date: 1/13/2017

Make:	MDF Model 493206
Manufacturer:	Intercat
Model:	3-100051X
Number of Cartridges:	1
Size of Cartridges (ft²):	53.00
Total Cartridge Area (ft²):	53.00
Maximum Design Temperature Capability (°F):	200.0
Maximum Design Air Flow Rate (acfm):	210.0
Maximum Air Flow Rate to Filter Area Ratio:	3.96
Minimum Operating Pressure Drop (in. H2O):	1.00
Maximum Operating Pressure Drop (in. H2O):	8.00
Maximum Inlet Temperature (°F):	200.0
Maximum Operating Exhuast Gas Flow Rate (acfm):	344.0
Method for Determining When Cartridge Replacement is Required:	Filter shall be replaced once a d.p. of 8 in.w.c. recorded once per week based on local gauge.
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	6
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Not Applicable
Have you attached a Particle Size Distribution Analysis?	● Yes ○ No
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	● Yes ○ No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	Catalyst loader to be installed within the FCCU complex.

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305001 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 1
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305002 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 2
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305003 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 3
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	

Method of Determining Breakthrough (check all that apply):

Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305004 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 4
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305005 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 5
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305006 (Adsorber)
Print Date: 1/13/2017

Make:	Carbon 6
Manufacturer:	
Model:	
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	5
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	2
Units:	Feet
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	
Total Weight of Adsorbant (lbs):	1000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	

Method of Determining Breakthrough (check all that apply):

Continuous Emissions Monitor (CEM):	☐
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305009 (Adsorber)
Print Date: 1/13/2017

Make:	
Manufacturer:	US Filter
Model:	VSC2000
Adsorber Type:	FR
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	100
Maximum Temperature of Vapor Stream to Adsorber (°F):	140
Minimum Temperature of Vapor Stream to Adsorber (°F):	65
Minimum Moisture Content of Vapor Stream to Adsorber (%):	15
Type of Adsorbant:	Activated Carbon
Bed Height:	8
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	2.5
Total Weight of Adsorbant (lbs):	2000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Series

Method of Determining Breakthrough (check all that apply):

Continuous Emissions Monitor (CEM):	☑
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	100
Handling Method of Saturated Adsorbant:	Regenerated off-site
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305010 (Adsorber)
Print Date: 1/13/2017

Make:	
Manufacturer:	US Filter
Model:	VSC2000
Adsorber Type:	FR
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	100
Maximum Temperature of Vapor Stream to Adsorber (°F):	140
Minimum Temperature of Vapor Stream to Adsorber (°F):	65
Minimum Moisture Content of Vapor Stream to Adsorber (%):	15
Type of Adsorbant:	Activated Carbon
Bed Height:	8
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	2.5
Total Weight of Adsorbant (lbs):	2000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Series
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	☑
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	100
Handling Method of Saturated Adsorbant:	Regenerated off-site
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

55829 PAULSBORO REFINING COMPANY LLC BOP160002 CD305011 (Adsorber)
Print Date: 1/13/2017

Make:	
Manufacturer:	US Filter
Model:	VSC2000
Adsorber Type:	FR
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	100
Maximum Temperature of Vapor Stream to Adsorber (°F):	140
Minimum Temperature of Vapor Stream to Adsorber (°F):	65
Minimum Moisture Content of Vapor Stream to Adsorber (%):	15
Type of Adsorbant:	Activated Carbon
Bed Height:	8
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H20):	
Maximum Pressure Drop Across Adsorber (in. H20):	2.5
Total Weight of Adsorbant (lbs):	2000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Series

Method of Determining Breakthrough (check all that apply):

Continuous Emissions Monitor (CEM):	☑
Replacement By Weight:	☐
Periodic Testing:	☐
Sampling Frequency:	
Sampling Device:	
Other:	☐
Description:	
Minimum Concentration at Breakthrough (ppmvd):	100
Handling Method of Saturated Adsorbant:	Regenerated off-site
Method of Regeneration:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or	

showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT5		Stack - Process Heater, PtR B-102/103a, 100 MM Btu/hr , Refinery Fuel Gas (air preheater stack)	Round	93	80	1,000	273.0	200.0	1,500.0	30,970.0	24,000.0	48,216.0	Up	
PT6	PtR B-104	Stack-Process Heater, PtR B-1, 24 MMBtu/hr, refinery fuel gas	Round	30	50	425	970.0	200.0	1,500.0	13,000.0	1,500.0	16,529.0	Up	
PT7	CHD 1 B-401	Stack - Process Heater, CHD 1 B-401 (new), 170 MM Btu/hr, Refinery Fuel Gas	Round	102	130	1,000	400.0	350.0	550.0	36,000.0	27,200.0	66,000.0	Up	
PT10	CU-7 F-1A	Stack - Process Heater, CU-7 F-1A, 107 MM Btu/hr, Refinery Fuel Gas	Round	72	150	800	750.0	200.0	1,100.0	64,600.0	25,200.0	109,000.0	Up	
PT11	CU-7 F-1 Air	Stack - Process Heater, CU-7 F-1, 139.5 MM Btu/hr, Refinery Fuel Gas (Air Preheater Stack)	Round	99	103	800	300.0	200.0	1,500.0	34,000.0	32,900.0	178,300.0	Up	
PT12	CU-7 F-1	Stack - Process Heater, CU-7 F-1, 139.5 MM Btu/hr, Refinery Fuel Gas	Round	84	140	800	700.0	200.0	1,500.0	51,660.0	38,300.0	280,000.0	Up	
PT13	CU-7 F-2	Stack - Process Heater, CU-7 F-2, 173 MM Btu/hr, Refinery Fuel Gas	Round	84	140	700	850.0	200.0	1,100.0	108,400.0	40,800.0	176,000.0	Up	
PT14	C.U. 6	Crude Unit #6	Round	78	120	2,100	600.0	200.0	1,050.0	111,250.0	51,875.0	155,560.0	Up	
PT15	Coker A	Stack - Process Heater, Coker A, 125 MM Btu/hr, Refinery Fuel Gas	Round	78	120	1,200	550.0	200.0	1,500.0	60,200.0	29,500.0	160,000.0	Up	
PT16	Coker B	Stack - Process Heater, Coker B, 125 MM Btu/hr, Refinery Fuel Gas	Round	78	120	1,200	550.0	200.0	1,500.0	60,200.0	29,500.0	160,000.0	Up	
PT17	Furf 1 BB-1	Furf 1 BB-1	Round	42	85	2,400	575.0	200.0	1,500.0	35,000.0	16,500.0	89,500.0	Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT18	Furf 1 BB-2	Furf 1 BB-2	Round	24	60	2,400	800.0	200.0	1,500.0	15,000.0	5,900.0	32,000.0	Up	
PT19	Furf 2 B-101	Furf 2 B-101	Round	69	100	2,000	600.0	200.0	1,500.0	25,000.0	12,000.0	63,000.0	Up	
PT20	PDA BB-1	PDA BB-1	Round	30	80	1,400	500.0	200.0	1,500.0	4,000.0	2,000.0	11,500.0	Up	
PT21	PDA BB-2	PDA BB-2	Round	72	85	1,400	600.0	200.0	1,500.0	30,300.0	14,100.0	77,000.0	Up	
PT22	MLDW	MLDW	Round	48	125	1,250	800.0	950.0	1,200.0	39,660.0	25,000.0	53,000.0	Up	
PT23	CHD2	CHD2 Heater	Round	36	97	1,250	1,042.0	200.0	1,500.0	10,960.0	4,200.0	23,000.0	Up	
PT24	H2 Pt Htr	H2 Plant Heater	Round	60	100	1,250	750.0	200.0	1,500.0	52,200.0	2,300.0	124,000.0	Up	
PT26	Boiler 2A	Boiler 2A	Round	88	140	1,700	350.0	240.0	450.0	136,000.0	36,000.0	491,918.0	Up	
PT27	Boiler 2B	Boiler 2B	Round	88	120	1,700	350.0	240.0	450.0	136,000.0	36,000.0	491,918.0	Up	
PT28	Boiler 2C	Boiler 2C	Round	88	120	1,700	350.0	240.0	450.0	136,000.0	36,000.0	491,918.0	Up	
PT29	GTG/HRSG	GTG/HRSG	Round	120	120	1,700	293.0	260.0	320.0	326,000.0	160,000.0	400,000.0	Up	
PT30	SP New Flare	South Plant New Flare	Round	30	270	1,400	1,800.0					40,000.0	Up	
PT31	New S. Flare	New South Flare	Round	30	270	1,450	1,800.0	1,800.0	1,800.0		1,731,000.0	1,731,000.0	Up	
PT34	North Flare	North Flare	Round	24	165	1,600	1,800.0	1,800.0	1,800.0		800.0	6,900,000.0	Up	
PT35	Spare N. Fl.	Spare North Flare	Round	24	165	1,600	1,800.0	1,800.0	1,800.0		800.0	6,900,000.0	Up	
PT36	MVR	Marine vapor recovery	Round	102	45	600	1,500.0	200.0	1,800.0		202,800.0	202,800.0	Up	
PT37	Pot W. Strip	Potable water stripper	Round	14	40	1,700	60.0	20.0	100.0	4,000.0	3,500.0	4,500.0	Up	
PT38	Tank 1	Tank 1	Round	516	20	1,800	160.0	50.0	300.0				Up	
PT39	Tank 2	Tank 2	Round	648	25	1,600	160.0	50.0	300.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT40	Tank 3	Tank 3	Round	648	25	1,600	160.0	50.0	300.0				Up	
PT41	Tank 4	Tank 4	Round	648	25	1,500	160.0	50.0	300.0				Up	
PT42	Tank 5	Tank 5	Round	648	25	1,400	160.0	50.0	300.0				Up	
PT43	Tank 8	Tank 8	Round	576	25	1,700	160.0	50.0	300.0				Up	
PT44	Tank 9	Tank 9	Round	576	25	1,700	160.0	50.0	300.0				Up	
PT45	Tank 41	Tank 41	Round	648	25	1,200	140.0	20.0	200.0				Up	
PT46	Tank 42	Tank 42	Round	648	25	1,200	140.0	20.0	200.0				Up	
PT47	Tank 53	Tank 53	Round	648	25	1,200	140.0	20.0	200.0				Up	
PT48	Tank 54	Tank 54	Round	648	25	1,200	140.0	20.0	200.0				Up	
PT49	Tank 93	Tank 93	Round	999	30	1,500	160.0	50.0	300.0				Up	
PT50	Tank 218	Tank 218	Round	516	20	900	160.0	50.0	300.0				Up	
PT51	Tank 219	Tank 219	Round	516	20	900	160.0	50.0	300.0				Up	
PT52	Tank 335	Tank 335	Round	516	25	900	160.0	50.0	300.0				Up	
PT53	Tank 368	Tank 368	Round	999	30	1,200	160.0	50.0	300.0				Up	
PT54	Tank 385	Tank 385	Round	516	25	1,800	160.0	50.0	300.0				Up	
PT55	Tank 386	Tank 386	Round	516	25	1,800	160.0	50.0	300.0				Up	
PT56	Tank 391	Tank 391	Round	516	25	850	140.0	80.0	160.0				Up	
PT57	Tank 392	Tank 392	Round	516	25	875	140.0	80.0	160.0				Up	
PT58	Tank 397	Tank 397	Round	516	25	800	160.0	50.0	300.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT59	Tank 398	Tank 398	Round	999	30	1,300	160.0	50.0	300.0				Up	
PT60	Tank 412	Tank 412	Round	516	25	1,200	140.0	20.0	200.0				Up	
PT61	Tank 448	Tank 448	Round	720	30	900	160.0	50.0	300.0				Up	
PT62	Tank 449	Tank 449	Round	720	30	900	160.0	50.0	300.0				Up	
PT63	Tank 457	Tank 457	Round	648	25	1,700	160.0	50.0	300.0				Up	
PT64	Tank 481	Tank 481	Round	360	25	600	160.0	50.0	300.0				Up	
PT65	Tank 485	Tank 485	Round	300	25	700	160.0	50.0	300.0				Up	
PT66	Tank 510	Tank 510	Round	648	25	1,200	160.0	50.0	300.0				Up	
PT67	Tank 557	Tank 557	Round	720	30	1,500	130.0	50.0	200.0				Up	
PT68	Tank 558	Tank 558	Round	999	30	1,500	130.0	50.0	200.0				Up	
PT71	Tank 593	Tank 593	Round	999	30	1,100	160.0	50.0	200.0				Up	
PT72	Tank 594	Tank 594	Round	999	30	1,200	160.0	50.0	200.0				Up	
PT73	Tank 595	Tank 595	Round	999	30	1,300	160.0	50.0	200.0				Up	
PT74	Tank 634	Tank 634	Round	648	25	1,200	100.0	20.0	200.0				Up	
PT75	Tank 635	Tank 635	Round	648	25	1,200	100.0	20.0	200.0				Up	
PT76	Tank 636	Tank 636	Round	648	25	1,100	100.0	20.0	200.0				Up	
PT77	Tank 639	Tank 639	Round	648	25	1,100	160.0	50.0	200.0				Up	
PT78	Tank 640	Tank 640	Round	648	27	1,000	120.0	20.0	200.0				Up	
PT79	Tank 641	Tank 641	Round	648	27	925	120.0	20.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT80	Tank 670	Tank 670	Round	999	30	1,500	160.0	50.0	200.0				Up	
PT81	Tank 692	Tank 692	Round	600	29	800	60.0	20.0	100.0				Up	
PT82	Tank 693	Tank 693	Round	600	29	700	60.0	20.0	100.0				Up	
PT83	Tank 708	Tank 708	Round	516	12	1,800	160.0	50.0	200.0				Up	
PT84	Tank 724	Tank 724	Round	840	30	700	60.0	20.0	100.0				Up	
PT85	Tank 725	Tank 725	Round	840	30	700	60.0	20.0	100.0				Up	
PT86	Tank 756	Tank 756	Round	516	25	1,700	160.0	50.0	200.0				Up	
PT87	Tank 766	Tank 766	Round	648	32	1,000	160.0	50.0	200.0				Up	
PT88	Tank 767	Tank 767	Round	648	32	900	160.0	50.0	200.0				Up	
PT89	Tank 802	Tank 802	Round	840	41	1,000	60.0	20.0	100.0				Up	
PT91	Tank 839	Tank 839	Round	999	42	1,600	160.0	50.0	200.0				Up	
PT92	Tank 840	Tank 840	Round	999	42	1,700	160.0	50.0	200.0				Up	
PT94	Tank 866	Tank 866	Round	660	30	800	160.0	50.0	200.0				Up	
PT95	Tank 883	Tank 883	Round	840	30	700	160.0	50.0	200.0				Up	
PT96	Tank 935	Tank 935	Round	999	42	1,400	200.0	50.0	250.0				Up	
PT97	Tank 936	Tank 936	Round	999	42	1,500	160.0	50.0	200.0				Up	
PT98	Tank 937	Tank 937	Round	999	42	1,600	250.0	50.0	350.0				Up	
PT99	Tank 939	Tank 939	Round	840	35	700	160.0	50.0	200.0				Up	
PT100	Tank 1000	Tank 1000	Round	999	42	1,700	250.0	50.0	350.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT102	Tank 1021	Tank 1021	Round	720	46	600	160.0	50.0	200.0				Up	
PT103	Tank 1022	Tank 1022	Round	720	46	500	160.0	50.0	200.0				Up	
PT104	Tank 1023	Tank 1023	Round	999	42	500	60.0	20.0	100.0				Up	
PT105	Tank 1024	Tank 1024	Round	999	42	1,000	160.0	50.0	200.0				Up	
PT106	Tank 1025	Tank 1025	Round	999	42	1,200	160.0	50.0	200.0				Up	
PT107	Tank 1027	Tank 1027	Round	516	30	1,100	60.0	20.0	100.0				Up	
PT108	Tank 1028	Tank 1028	Round	948	46	1,600	120.0	20.0	200.0				Up	
PT109	Tank 1055	Tank 1055	Round	600	35	800	100.0	20.0	150.0				Up	
PT110	Tank 1063	Tank 1063	Round	999	42	300	60.0	20.0	100.0				Up	
PT111	Tank 1064	Tank 1064	Round	999	42	100	60.0	20.0	100.0				Up	
PT112	Tank 1065	Tank 1065	Round	999	42	500	60.0	20.0	100.0				Up	
PT113	Tank 1066	Tank 1066	Round	999	42	300	60.0	20.0	100.0				Up	
PT114	Tank 1115	Tank 1115	Round	999	42	300	60.0	20.0	100.0				Up	
PT115	Tank 1116	Tank 1116	Round	999	42	300	60.0	20.0	100.0				Up	
PT116	Tank 1117	Tank 1117	Round	999	42	1,000	160.0	50.0	200.0				Up	
PT117	Tank 1118	Tank 1118	Round	612	39	700	160.0	50.0	200.0				Up	
PT118	Tank 1131	Tank 1131	Round	480	40	900	160.0	50.0	200.0				Up	
PT119	Tank 1132	Tank 1132	Round	480	40	900	160.0	50.0	200.0				Up	
PT120	Tank 1248	Tank 1248	Round	126	42	700	150.0	20.0	300.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT121	Tank 1249	Tank 1249	Round	126	42	700	150.0	20.0	300.0				Up	
PT122	Tank 1318	Tank 1318	Round	300	23	1,200	60.0	20.0	100.0				Up	
PT123	Tank 1319	Tank 1319	Round	300	23	1,200	60.0	20.0	100.0				Up	
PT124	Tank 1320	Tank 1320	Round	300	23	1,200	60.0	20.0	100.0				Up	
PT125	Tank 1321	Tank 1321	Round	300	23	1,200	60.0	20.0	100.0				Up	
PT126	Tank 1425	Tank 1425	Round	300	30	1,000	160.0	50.0	200.0				Up	
PT127	Tank 1426	Tank 1426	Round	300	30	1,000	160.0	50.0	200.0				Up	
PT128	Tank 1427	Tank 1427	Round	300	30	1,000	160.0	50.0	200.0				Up	
PT129	Tank 1428	Tank 1428	Round	300	30	1,000	160.0	50.0	200.0				Up	
PT130	Tank 1474	Tank 1474	Round	999	40	300	200.0	50.0	350.0				Up	
PT131	Tank 1536	Tank 1536	Round	480	35	850	140.0	80.0	160.0				Up	
PT132	Tank 1537	Tank 1537	Round	480	35	875	140.0	80.0	160.0				Up	
PT133	Tank 1883	Tank 1883	Round	216	22	900	60.0	50.0	200.0				Up	
PT134	Tank 1886	Tank 1886	Round	540	42	1,300	210.0	50.0	300.0				Up	
PT135	Tank 1887	Tank 1887	Round	540	42	1,200	210.0	50.0	300.0				Up	
PT136	Tank 1888	Tank 1888	Round	540	42	1,200	210.0	50.0	300.0				Up	
PT137	Tank 1889	Tank 1889	Round	540	42	1,100	210.0	50.0	300.0				Up	
PT138	Tank 1890	Tank 1890	Round	540	42	1,100	210.0	50.0	300.0				Up	
PT139	Tank 1891	Tank 1891	Round	540	42	1,000	210.0	50.0	300.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT140	Tank 1892	Tank 1892	Round	540	42	1,000	210.0	50.0	300.0				Up	
PT141	Tank 1898	Tank 1898	Round	540	42	700	140.0	80.0	160.0				Up	
PT142	Tank 1899	Tank 1899	Round	540	42	700	140.0	80.0	160.0				Up	
PT143	Tank 1911	Tank 1911	Round	720	40	1,600	100.0	20.0	200.0				Up	
PT144	Tank 1912	Tank 1912	Round	672	40	1,700	100.0	20.0	200.0				Up	
PT146	Tank 1917	Tank 1917	Round	432	35	600	150.0	50.0	200.0				Up	
PT147	89 R.W.Pump	#89 River water pump	Round	6	20	20	250.0	20.0	500.0	50,000.0	39,000.0	70,000.0	Up	
PT148	Tank 1919	Tank 1919	Round	432	35	700	150.0	50.0	200.0				Up	
PT150	Tank 1929	Tank 1929	Round	168	32	1,800	60.0	20.0	150.0				Up	
PT151	Tank 1930	Tank 1930	Round	168	32	1,800	60.0	20.0	150.0				Up	
PT152	Tank 1941	Tank 1941	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT153	Tank 1942	Tank 1942	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT154	Tank 1943	Tank 1943	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT155	Tank 1944	Tank 1944	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT156	Tank 1945	Tank 1945	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT157	Tank 1946	Tank 1946	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT158	Tank 1947	Tank 1947	Round	672	40	1,700	220.0	50.0	350.0				Up	
PT162	Tank 1962	Tank 1962	Round	420	36	1,500	160.0	50.0	200.0				Up	
PT163	Tank 1963	Tank 1963	Round	420	36	1,500	160.0	50.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT164	Tank 1964	Tank 1964	Round	420	36	1,400	160.0	50.0	200.0				Up	
PT165	Tank 1965	Tank 1965	Round	540	42	1,400	160.0	50.0	200.0				Up	
PT166	Tank 1969	Tank 1969	Round	999	48	200	200.0	50.0	350.0				Up	
PT167	Tank 1970	Tank 1970	Round	999	48	200	200.0	50.0	350.0				Up	
PT168	Tank 2014	Tank 2014	Round	204	25	1,500	200.0	50.0	350.0				Up	
PT169	Tank 2015	Tank 2015	Round	204	25	1,500	200.0	50.0	350.0				Up	
PT170	Tank 2016	Tank 2016	Round	204	25	1,500	200.0	50.0	350.0				Up	
PT171	Tank 2017	Tank 2017	Round	204	25	1,500	200.0	50.0	350.0				Up	
PT172	Tank 2041	Tank 2041	Round	720	40	1,600	300.0	50.0	400.0				Up	
PT173	Tank 2042	Tank 2042	Round	720	40	1,600	300.0	50.0	400.0				Up	
PT174	Tank 2043	Tank 2043	Round	720	40	1,700	300.0	50.0	400.0				Up	
PT175	Tank 2044	Tank 2044	Round	720	40	1,700	300.0	50.0	400.0				Up	
PT176	Tank 2173	Tank 2173	Round	648	32	900	60.0	20.0	100.0				Up	
PT177	Tank 2407	Tank 2407	Round	180	13	1,100	60.0	20.0	100.0				Up	
PT178	Tk 2417(AG9)	Tank 2417 (AG-9)	Round	288	34	400	60.0	20.0	100.0				Up	
PT179	1185 Diesel	Diesel at 1185 tank	Round	6	20	2,000	250.0	20.0	500.0	50,000.0	39,000.0	70,000.0	Horizontal	
PT180	Tank 2503	Tank 2503	Round	999	50	900	300.0	50.0	450.0				Up	
PT181	Tank 2504	Tank 2504	Round	999	50	800	300.0	50.0	450.0				Up	
PT182	Tank 2729	Tank 2729	Round	450	24	1,000	60.0	20.0	100.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT183	Tank 2730	Tank 2730	Round	300	24	1,000	60.0	20.0	100.0				Up	
PT184	Tank 2731	Tank 2731	Round	300	24	1,000	60.0	20.0	100.0				Up	
PT185	Tank 2732	Tank 2732	Round	180	16	1,000	60.0	20.0	100.0				Up	
PT186	Tank 2733	Tank 2733	Round	180	16	1,000	60.0	20.0	100.0				Up	
PT187	Tank 2734	Tank 2734	Round	180	16	1,000	60.0	20.0	100.0				Up	
PT188	Tank 2735	Tank 2735	Round	180	16	1,000	60.0	20.0	100.0				Up	
PT189	Tank 2799	Tank 2799	Round	804	48	700	160.0	50.0	200.0				Up	
PT190	Tank 2800	Tank 2800	Round	804	48	700	160.0	50.0	200.0				Up	
PT191	Tank 2807	Tank 2807	Round	999	56	900	100.0	20.0	200.0				Up	
PT192	Tank 2808	Tank 2808	Round	999	56	800	100.0	20.0	200.0				Up	
PT193	Tank 2816	Tank 2816	Round	216	24	2,000	60.0	20.0	100.0				Up	
PT194	Tank 2817	Tank 2817	Round	216	24	2,000	60.0	20.0	100.0				Up	
PT195	Tank 2831	Tank 2831	Round	144	16	1,000	60.0	20.0	100.0				Up	
PT196	Tank 2840	Tank 2840	Round	300	24	600	160.0	50.0	300.0				Up	
PT197	Tank 2841	Tank 2841	Round	300	24	600	160.0	50.0	300.0				Up	
PT198	Tank 2842	Tank 2842	Round	300	24	600	160.0	50.0	300.0				Up	
PT199	Tank 2869	Tank 2869	Round	999	56	200	60.0	20.0	100.0				Up	
PT200	Tank 2885	Tank 2885	Round	324	50	350	150.0	20.0	170.0				Up	
PT201	Tank 2910	Tank 2910	Round	960	56	200	100.0	20.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT202	Tank 2940	Tank 2940	Round	999	56	300	60.0	20.0	100.0				Up	
PT203	Tank 2941	Tank 2941	Round	999	56	500	60.0	20.0	100.0				Up	
PT205	Tank 2949	Tank 2949	Round	300	18	100	100.0	20.0	200.0				Up	
PT206	Tank 2950	Tank 2950	Round	300	18	100	100.0	20.0	200.0				Up	
PT207	Air Comp.	Air Compressor	Round	6	20	2,000	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT208	Tank 3001	Tank 3001	Round	252	16	200	60.0	20.0	100.0				Up	
PT209	Tank 3018	Tank 3018	Round	999	56	700	60.0	20.0	100.0				Up	
PT211	Tank 3042	Tank 3042	Round	204	17	1,800	60.0	20.0	100.0				Up	
PT212	Tank 3174	Tank 3174	Round	999	58	500	60.0	20.0	100.0				Up	
PT213	Tank 3211	Tank 3211	Round	144	16	700	60.0	20.0	100.0				Up	
PT214	Tank 3244	Tank 3244	Round	240	13	1,250	60.0	20.0	100.0				Up	
PT215	Tank 3432	Tank 3432	Round	288	32	1,900	60.0	20.0	100.0				Up	
PT216	Tank 3457	Tank 3457	Round	288	32	700	60.0	20.0	100.0				Up	
PT217	Tank 3570	Tank 3570	Round	120	19	1,700	60.0	20.0	100.0				Up	
PT218	Tank 3571	Tank 3571	Round	120	19	1,700	60.0	20.0	100.0				Up	
PT219	Tank 3577	Tank 3577	Round	960	48	1,100	60.0	20.0	100.0				Up	
PT220	Tank 3592	Tank 3592	Round	876	48	1,200	60.0	20.0	200.0				Up	
PT221	Tank 3734	Tank 3734	Round	84	11	1,100	60.0	20.0	200.0				Up	
PT222	Tank 32F13	Tank 32F13	Round	408	40	1,700	60.0	20.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT223	Tank 51F1	Tank 51F1	Round	180	20	1,600	100.0	20.0	200.0				Up	
PT224	Tank 51F2	Tank 51F2	Round	180	20	1,600	100.0	20.0	200.0				Up	
PT225	Tank F301A	Tank F301A	Round	144	26	1,000	60.0	20.0	200.0				Up	
PT226	Tank F301B	Tank F301B	Round	144	26	1,000	60.0	20.0	200.0				Up	
PT227	Tank M303A	Tank M303A	Round	340	6	1,000	60.0	20.0	200.0				Up	
PT228	Tank M303B	Tank M303B	Round	340	6	1,000	60.0	20.0	200.0				Up	
PT229	Tank F303	Tank F303	Round	144	19	1,000	60.0	20.0	200.0				Up	
PT230	Air Comp.	Air Compressor	Round	6	20	2,000	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT231	Tank S-1	Tank S-1	Round	999	30	2,400	110.0	20.0	200.0				Up	
PT232	Tank S-3	Tank S-3	Round	999	30	2,250	60.0	20.0	200.0				Up	
PT233	Tank S-8	Tank S-8	Round	999	30	2,200	110.0	20.0	200.0				Up	
PT235	Tank S-10	Tank S-10	Round	999	30	2,100	60.0	20.0	100.0				Up	
PT236	Tank S-14	Tank S-14	Round	999	30	1,600	200.0	20.0	350.0				Up	
PT237	Tank S-32	Tank S-32	Round	999	35	1,500	60.0	20.0	100.0				Up	
PT238	Tank S-33	Tank S-33	Round	999	35	1,100	60.0	20.0	100.0				Up	
PT239	Tank S-34	Tank S-34	Round	999	30	1,500	150.0	20.0	200.0				Up	
PT240	Tank S-35	Tank S-35	Round	999	30	1,100	150.0	20.0	200.0				Up	
PT241	Tank S-36	Tank S-36	Round	999	30	1,000	60.0	20.0	100.0				Up	
PT242	Tank S-37	Tank S-37	Round	999	35	600	150.0	20.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT243	Tank S-38	Tank S-38	Round	999	35	625	60.0	20.0	200.0				Up	
PT244	Tank S-45	Tank S-45	Round	999	35	900	150.0	20.0	200.0				Up	
PT245	Tank S-46	Tank S-46	Round	999	35	700	150.0	20.0	200.0				Up	
PT246	Tank S-48	Tank S-48	Round	999	42	700	150.0	20.0	200.0				Up	
PT247	Tank S-49	Tank S-49	Round	999	42	800	150.0	20.0	200.0				Up	
PT248	Tank S-50	Tank S-50	Round	999	42	550	150.0	20.0	200.0				Up	
PT249	Tank S-51	Tank S-51	Round	999	42	400	150.0	20.0	200.0				Up	
PT250	Tank S-52	Tank S-52	Round	999	42	700	150.0	20.0	200.0				Up	
PT251	Tank S-53	Tank S-53	Round	999	42	200	150.0	20.0	200.0				Up	
PT252	Tank S-54	Tank S-54	Round	999	42	1,200	150.0	20.0	200.0				Up	
PT253	Tank S-55	Tank S-55	Round	999	43	1,400	60.0	20.0	200.0				Up	
PT254	Tank S-57	Tank S-57	Round	999	42	1,000	60.0	20.0	100.0				Up	
PT255	Tank S-58	Tank S-58	Round	999	42	600	150.0	20.0	200.0				Up	
PT256	Tank S-59	Tank S-59	Round	999	42	200	150.0	20.0	200.0				Up	
PT257	Tank S-60	Tank S-60	Round	999	42	500	150.0	20.0	200.0				Up	
PT258	Tank S-61	Tank S-61	Round	999	42	500	150.0	20.0	200.0				Up	
PT259	Tank S-62	Tank S-62	Round	999	42	200	150.0	20.0	200.0				Up	
PT260	Tank S-63	Tank S-63	Round	999	42	200	150.0	20.0	200.0				Up	
PT261	Tank S-64	Tank S-64	Round	999	42	200	150.0	20.0	200.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT262	Tank S-65	Tank S-65	Round	999	42	700	150.0	20.0	200.0				Up	
PT263	Tank S-66	Tank S-66	Round	999	42	300	150.0	20.0	200.0				Up	
PT264	Tank S-67	Tank S-67	Round	999	42	600	150.0	20.0	200.0				Up	
PT265	Tank S-68	Tank S-68	Round	999	42	300	150.0	20.0	200.0				Up	
PT266	Tank S-70	Tank S-70	Round	999	42	100	150.0	20.0	200.0				Up	
PT267	Tank S-74	Tank S-74	Round	999	56	1,000	60.0	20.0	100.0				Up	
PT268	Tank S-75	Tank S-75	Round	999	56	1,000	60.0	20.0	100.0				Up	
PT269	Tank S-76	Tank S-76	Round	999	64	1,000	60.0	20.0	100.0				Up	
PT270	Tank S-77	Tank S-77	Round	999	64	1,000	60.0	20.0	100.0				Up	
PT271	Tank S-78	Tank S-78	Round	999	64	1,000	60.0	20.0	100.0				Up	
PT272	Tank S-79	Tank S-79	Round	999	64	1,000	60.0	20.0	100.0				Up	
PT273	Tank S-80	Tank S-80	Round	999	56	1,000	60.0	20.0	100.0				Up	
PT274	Tank S-81	Tank S-81	Round	999	56	1,000	60.0	20.0	100.0				Up	
PT275	Tank S-82	Tank S-82	Round	999	43	600	60.0	20.0	200.0				Up	
PT276	Tank 3551	Tank 3551	Round	144	18	1,200	60.0	20.0	100.0				Up	
PT277	Tank 3552	Tank 3552	Round	144	18	1,200	60.0	20.0	100.0				Up	
PT278	Tank 3634	Tank 3634	Round	120	17	1,000	60.0	20.0	100.0				Up	
PT279	Tank 3157	Tank 3157	Round	228	21	800	60.0	20.0	100.0				Up	
PT280	Tank 3169	Tank 3169	Round	120	21	1,000	60.0	20.0	100.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT281	Tank 3548	Tank 3548	Round	336	53	500	60.0	20.0	100.0				Up	
PT282	Tank 3549	Tank 3549	Round	336	53	500	60.0	20.0	100.0				Up	
PT283	Tank 2705	Tank 2705	Round	18	10	700	60.0	20.0	100.0				Up	
PT284	Decoke pit	Decoke pit	Round	94	0	1,100	150.0	50.0	250.0				Up	
PT285	Cat. Hand.	Catalyst handling	Round	8	75	2,000	240.0	150.0	300.0	1,000.0	750.0	1,500.0	Up	
PT286	Coker Sep.	Coker Oil/water Separator	Rectangle	45	3	1,200	60.0	20.0	150.0	1.3	1.2	1.5	Up	
PT287	R.O. Sep.	R.O. Oil/water Separator	Rectangle	118	3	1,000	60.0	20.0	150.0	1.3	1.2	1.5	Up	
PT289	API Sep.	WWTP: API Oil/Water Separator (Inlet-side)	Round	4	13	800	60.0	20.0	150.0	360.0	320.0	410.0	Down	
PT290	API Sep.	WWTP: API Oil/Water Separator (Outlet-side)		4	13	800	60.0	20.0	150.0	360.0	320.0	410.0	Down	
PT300	OM Diesel	Diesel Engine	Round	6	20	500	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT301	Blk.St.Gen.	Black start generator	Round	6	20	1,700	250.0	20.0	500.0	50,000.0	39,000.0	70,000.0	Horizontal	
PT302	Air Comp.	Air Compressor	Round	6	20	2,000	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT303	Air Comp.	Air Compressor	Round	6	20	2,000	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT304	Air Comp.	Air Compressor	Round	6	20	2,000	250.0	20.0	500.0	16,500.0	1,300.0	24,000.0	Up	
PT305	SRU Incin.	SRU Incin. (Thermal oxidizer)	Round	40	183	800	500.0	200.0	1,500.0	100,000.0	140,000.0	200,000.0	Up	
PT306	Tank 562	Tank 562	Round	600	29	700	60.0	20.0	100.0				Up	
PT307	Tank S-7	Tank S-7	Round	999	30	2,400	110.0	20.0	200.0				Up	
PT329	DAF Lift Sta	WWTP: Dissolved Air Flotation Unit (DAF) Lift Station	Rectangle	315	0	800	60.0	20.0	150.0	0.0	0.0	45.0	Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT330	DAF1/ DAF3	WWTP: Dissolved Air Flotation Unit (DAF)	Rectangle	310	7	800	60.0	20.0	150.0	0.0	0.0	45.0	Up	
PT331	DAF2/ DAF4	WWTP: Dissolved Air Flotation Unit (DAF)	Rectangle	310	7	800	60.0	20.0	150.0	0.0	0.0	100.0	Up	
PT332	Aera. Basin1	WWTP: Aeration Basin #1	Rectangle		7	800	60.0	20.0	150.0	0.0	0.0	100.0	Up	
PT333	Aera. Basin2	WWTP: Aeration Basin #2	Rectangle		7	800	60.0	20.0	150.0	0.0	0.0	100.0	Up	
PT334	Clarifier 1	WWTP: Clarifier #1	Round	275	10	800	60.0	20.0	150.0	0.0	0.0	100.0	Up	
PT335	Clarifier 2	WWTP: Clarifier #2	Round	280	10	800	60.0	20.0	150.0	0.0	0.0	100.0	Up	
PT338	RW 22 Tank	RW 22 Tank	Round	72	9	1,700	60.0	20.0	150.0				Up	
PT339	RW 24 Tank	RW 24 Tank	Round	72	9	1,100	60.0	20.0	150.0				Up	
PT340	RW 26 Tank	RW 26 Tank	Round	72	9	600	60.0	20.0	150.0				Up	
PT657	Petcoke Hopp	Petroleum Coke Material Handling Operations-Hopper	Surface		10	200	60.0	20.0	100.0				Up	
PT658	Petcoke Conv	Petroleum Coke Material Handling Operations-Conveyor	Surface		10	200	60.0	20.0	100.0				Up	
PT671	NP Pump #1	North Pond: Diesel Pump #1	Round										Up	
PT672	NP Pump #2	North Pond: Diesel Pump #2	Round										Up	
PT673	4193 tk	08-F-290 (4193 tk) - ERF North Pond Stormwater	Round										Up	
PT674	ERB Pump #1	ERB: Diesel Pump #1	Round										Up	
PT675	ERB Pump #2	ERB: Diesel Pump #2	Round										Up	
PT676	ERB Tank #1	ERF Stormeater Tank #4194 at ERB	Round										Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT677	ERB Tank #2	ERF Stormeater Tank #4195 at ERB	Round										Up	
PT678	NP Sump	North Pond: QQQ Sump	Square										Up	
PT679	ERB Sump	ERB: QQQ Sump near WWTP	Square										Up	
PT680	Sldge Diesel	Diesel Engine for Sludge	Round	6	20	500	925.0	20.0	1,200.0	554.0	200.0	1,000.0	Up	
PT701	TGU80	U7 TGU80 Vent	Round	16	125	900	95.0	50.0	150.0	6,000.0	1,000.0	7,000.0	Up	
PT702	TGU81	U7 TGU81 Vent	Round	16	125	900	95.0	50.0	150.0	6,000.0	1,000.0	7,000.0	Up	
PT780	CCR Heater	Tier II-CCR Heater stack	Round	120	200	1,700		200.0	800.0			160,923.0	Up	
PT790	CCR Reblr #1	Tier II-CCR Reboiler stack	Round	54	196	1,700		200.0	1,500.0			73,812.0	Up	
PT800	CCR Reblr #2	Tier II-CCR Area Reboiler stack	Round	71	140	1,700		200.0	1,600.0			35,100.0	Up	
PT810	CCR F303 Htr	CCR Reformate Splitter Heater	Round	69	175	1,700	380.0	200.0	1,500.0	10,000.0	5,000.0	15,000.0	Up	
PT1000	Landfill	Landfill Vents	Round										Up	
PT2005	MPE UNIT	Treated vapor from VPGAC to atmosphere	Round	4	15	1,700	100.0	65.0	140.0	450.0	400.0	1,000.0	Horizontal	
PT4806	Multiloader	Atmospheric Vent to Multiloader	Round	3	10	2,000	70.0	-30.0	200.0	344.0	0.0	344.0	Up	
PT4807	FCC Scrubber	FCC Scrubber Stack	Round	117	217	1,900		90.0	148.0		88,032.0	240,440.0	Up	
PT4808	PtR B-1	New PtR B-1 heater for NHT	Round	54	155	900	515.0	200.0	1,600.0	16,000.0	2,200.0	79,000.0	Up	
PT4809	CCR Vent	CCR Chlorsorb Process Vent	Round	4	175	1,700			400.0				Horizontal	
PT20001	Boiler 3A	Utility Plant: Package Boiler 3A	Round	48	21	350	480.0	275.0	735.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT20002	Boiler 3B	Utility Plant: Package Boiler 3B	Round	48	21	350	480.0	275.0	735.0				Up	

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 1 FCC Regen FCCU Regenerator with In-Line Heater and Wet Gas Scrubber Control Device

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Normal op.	E21- FCC Regenerator, PT4807, CD16 Wet Gas Scrubber - Normal Operations	Normal - Steady State	E21	CD16 (P)	PT4807	3-06-002-01	0.0	8,760.0		88,032.0	240,440.0	90.0	148.0
OS2	Normal op.	E22 - FCC In-Line Heater, PT4807, CD16 Wet Gas Scrubber - Natural Gas or Propane	Normal - Steady State	E22	CD16 (P)	PT4807	3-06-002-01	0.0	2,880.0		88,032.0	240,440.0	90.0	148.0
OS3	Normal op.	E22 - FCC In-Line Heater, PT4807, CD16 Wet Gas Scrubber - RFG	Normal - Steady State	E22	CD16 (P)	PT4807	3-06-002-01	0.0	2,880.0		88,032.0	240,440.0	90.0	148.0

U 2 PtR B-1 NHT Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	PtR B-1-norm	Process Heater- PtR B-1, PT4808, 49.5 MMBtu/Hr, Indirect Heat Exchanger combusting refinery fuel gas	Normal - Steady State	E1204		PT4808	3-06-001-04	0.0	8,760.0		1,700.0	93,654.0	200.0	1,600.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 5 PtR B-104 Process Heater-PtR B-104

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	PtRB-104 nor	Process Heater- PtR B-104, PT 6	Normal - Steady State	E10		PT6	3-06-001-04		8,760.0		1,500.0	16,529.0	200.0	1,500.0

U 6 CHD-1 Process Heater - CHD1 B401

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op	E11 - Process Heater CHD B-401, PT7, Normal Operation	Normal - Steady State	E11		PT7	3-06-001-04	7,300.0	8,760.0		34,600.0	36,700.0	350.0	550.0

U 7 SRU Complex Tail Gas Units

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3	TGU 80	E701 - TGU 80 Tail Gas Unit, PT701- Normal Operation	Normal - Steady State	E701		PT701	3-06-999-99		8,760.0		1,000.0	7,000.0	50.0	150.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 7 SRU Complex Tail Gas Units

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	TGU 81	E702 - TGU 81 Tail Gas Unit, PT702 - Normal Operation	Normal - Steady State	E702		PT702	3-06-999-99		8,760.0		1,000.0	7,000.0	50.0	150.0

U 8 CU-7 F-1A E2 --- Process Heater - Crude Unit 7 F-1A Atmospheric Heater, PT10

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CU7 F--1A	E2 - Process Heater - Crude Unit 7 F-1A atmospheric heater, PT10	Normal - Steady State	E2		PT10	3-06-999-99		8,760.0		25,200.0	109,000.0	200.0	1,100.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 9 CU-7 F-1 Process Heater - Crude Unit 7 F-1 Atmospheric Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	normal op	Process Heater - Normal Operation with Air Pre-Heater Operating (PT11),	Normal - Steady State	E3		PT11	3-06-999-99	6,500.0	8,760.0		32,900.0	178,300.0	200.0	1,500.0
OS2	emergency op	Process Heater - Emergency Operation during Air Pre-Heater Malfunction (PT12). No CEMS in PT12.	Malfunction	E3		PT12	3-06-999-99	6,500.0	8,760.0		383,000.0	280,000.0	200.0	1,500.0

U 10 CU-7 F-2 Process Heater - Crude Unit 7 F-2, Crude Unit 7 Vacuum Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	normal op	E4 - Process Heater - Crude Unit 7 Vacuum heater F-2, PT13	Normal - Steady State	E4		PT13	3-06-999-99		8,760.0		40,800.0	176,000.0	200.0	1,100.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 11 C.U. 6 Process Heater, Crude Unit 6

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CU #6 Heater	CU #6 Process Heater	Normal - Steady State	E1		PT14	3-06-999-99	0.0	8,760.0		51,875.0	155,560.0	200.0	1,050.0

U 12 Coker Coker Unit Heaters, A & B

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal op.	E5 - Process Heater - Coker A, PT15 - Normal Operation	Normal - Steady State	E5		PT15	3-06-999-99		7,320.0		29,500.0	160,000.0	200.0	1,500.0
OS2	Normal op.	E6 - Process Heater - Coker B, PT16 - Normal Operation	Normal - Steady State	E6		PT16	3-06-999-99		7,320.0		29,500.0	160,000.0	200.0	1,500.0
OS3	Decoking	E5 - Process Heater - Coker A, PT15 - Decoking	Maintenance	E5		PT15	3-06-999-99		1,440.0		29,500.0	160,000.0	200.0	1,500.0
OS4	Decoking	E6 - Process Heater - Coker B, PT16 - Decoking	Maintenance	E6		PT16	3-06-999-99		1,440.0		29,500.0	160,000.0	200.0	1,500.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 13 Furf 1 Process Heater - Furfural 1 Heaters (2)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op	E16 - Furfural Unit # 1 BB-1 Heater, PT17 - normal operation	Normal - Steady State	E16		PT17	3-06-999-99		8,760.0		16,500.0	89,500.0	200.0	1,500.0
OS2	normal op	E17 - Furfural Unit # 1 BB-2 Heater, PT18 - normal operation	Normal - Steady State	E17		PT18	3-06-999-99		8,760.0		5,900.0	32,000.0	200.0	1,500.0

U 14 Furf 2 Process Heater - Furfural 2B101 Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op	E18 - Furfural Unit # 2 B-101Heater, PT19 - normal operation	Normal - Steady State	E18		PT19	3-06-999-99		8,760.0		12,000.0	63,000.0	200.0	1,500.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 15 PDA Process Heaters (2) - Propane Deasphalting Unit

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op	E19 - PDA BB-1 Heater, PT20 - normal operation	Normal - Steady State	E19		PT20	3-06-999-99		8,760.0		2,000.0	11,500.0	200.0	1,500.0
OS2	normal op	E20 - PDA BB-2 Heater, PT21 - normal operation	Normal - Steady State	E20		PT21	3-06-999-99		8,760.0		14,100.0	77,000.0	200.0	1,500.0

U 16 MLDW Process Heater - MLDW

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op	E12 - Process Heater - MLDW Heater, PT22 - normal operation	Normal - Steady State	E12		PT22	3-06-999-99		8,760.0		25,000.0	53,000.0	800.0	1,200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 17 CHD2 process heater - CHD2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	E13 - Process Heater - CHD2 Heater, PT23 - normal operation.	Normal - Steady State	E13		PT23	3-06-999-99	0.0	8,760.0		4,200.0	23,000.0	200.0	1,500.0

U 18 H2 Pt Htr Hydrogen Plant Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	Normal Operation	Normal - Steady State	E14		PT24	3-06-999-99		8,760.0		2,300.0	124,000.0	200.0	1,500.0

U 20 UtilityPlant Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal op.	Boiler 2A - Combusting NG, RFG and/or No.2 Fuel Oil	Normal - Steady State	E36		PT26		0.0	8,760.0		36,000.0	491,918.0	240.0	450.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 20 UtilityPlant Utility Plant - 4 Boilers, Turbine w/ Duct Burner, 3 Boilers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	Normal op.	Boiler 2B - Combusting NG, RFG and/or No.2 Fuel Oil	Normal - Steady State	E37		PT27		0.0	8,760.0		36,000.0	491,918.0	240.0	450.0
OS3	Normal op.	Boiler 2C - Combusting NG, RFG and/or No.2 Fuel Oil	Normal - Steady State	E38		PT28		0.0	8,760.0		36,000.0	491,918.0	240.0	450.0
OS4	Normal op.	GTG/HRSG - Combusting NG or RFG	Normal - Steady State	E39		PT29		0.0	8,760.0		160,000.0	416,509.0	260.0	320.0
OS10	Boiler2A-SS	Start-up and Shut-down of Boiler 2A - Combusting NG or RFG	Normal - Steady State	E36		PT26		0.0	200.0					
OS11	Boiler2B-SS	Start-up and Shut-down of Boiler 2B - Combusting NG or RFG	Normal - Steady State	E37		PT27		0.0	200.0					
OS12	Boiler2C-SS	Start-up and Shut-down of Boiler 2C - Combusting NG or RFG	Normal - Steady State	E38		PT28		0.0	200.0					
OS13	GTG/HRSG-SS	Start-up, Shut-down, and Transfer of GTG/HRSG Combusting NG or RFG	Startup	E39		PT29		0.0	200.0					
OS30	Boiler 3A	Utility Plant: Package Boiler 3A - Combusting NG or RFG	Normal - Steady State	E20001		PT20001		0.0	3,000.0				275.0	735.0
OS31	Boiler 3B	Utility Plant: Package Boiler 3B - Combusting NG or RFG	Normal - Steady State	E20002		PT20002		0.0	3,000.0				275.0	735.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 21 SP New Flare South Plant New Flare

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Emergency	E30 - South Plant New Flare - All Emergency Releases	Malfunction	E30		PT30	3-06-999-99		8,760.0			40,000.0		
OS2	Pilot	E30 - South Plant New Flare - Pilot Gas only combusting Refinery Fuel Gas	Normal - Steady State	E30		PT30	3-06-999-99		8,760.0			40,000.0		

U 22 S.New Flare South Plant Flare - New

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Emergency	E31 - South Plant Flare new - All Emergency Releases	Malfunction	E31		PT31	3-06-999-99		8,760.0			1,731,000.0		
OS2	Pilot	E31 - South Plant Flare new - Pilot Gas only combusting Refinery Fuel Gas	Normal - Steady State	E31		PT31	3-06-999-99		8,760.0			1,731,000.0		

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 25 N. Flare North Plant Flares - Primary and Backup

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Emergency	E34 - North Plant Flare (Primary) - All Emergency Releases	Malfunction	E34		PT34	3-06-999-99		8,760.0			6,900,000.0		
OS2	Pilot	E34 - North Plant Flare (Primary) - Pilot Gas only combusting Refinery Fuel Gas	Normal - Steady State	E34		PT34	3-06-999-99		8,760.0			6,900,000.0		
OS3	Emergency	E35 - North Plant Flare (Backup) - All Emergency Releases	Malfunction	E35		PT35	3-06-999-99		8,760.0			6,900,000.0		
OS4	Pilot	E35 - North Plant Flare (Backup) - Pilot Gas only combusting Refinery Fuel Gas	Normal - Steady State	E35		PT35	3-06-999-99		8,760.0			6,900,000.0		

U 26 MVR Marine Vessel Loading Vapor Recovery System with Thermal Oxidation

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	normal op.	Marine Barge Loading of Gasoline with Thermal Oxidation	Normal - Steady State	E28	CD5 (P)	PT36	3-06-999-99					202,800.0	200.0	1,800.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 49 Coker Hy.bin Coker Hydrobin Bins

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal op	E299 - Open Top Storage Bin #3548 Hydrobin (West) - 33,000 ft3 capacity - Storing petroleum coke	Normal - Steady State	E299		PT281	4-03-999-99		8,760.0				20.0	100.0
OS2	Normal op	E230 - Open Top Storage Bin #3549 Hydrobin (East) - 33,000 ft3 capacity - Storing petroleum coke	Normal - Steady State	E300		PT282	4-03-999-99		8,760.0				20.0	100.0

U 52 FCC cat hand FCC Catalyst Loading/Unloading and Removal

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	cat loading	E24 - Hopper, 10,050 cubic feet capacity - Pneumatic truck loading/unloading of fresh catalyst with Scrubber (Venturi)	Normal - Steady State	E24	CD12 (P)	PT285								
OS2	cat withdraw	E41 - Hopper, 12,700 cubic feet capacity - Removal of equilibrium catalyst with Scrubber (Venturi)	Normal - Steady State	E41	CD12 (P)	PT285								

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 52 FCC cat hand FCC Catalyst Loading/Unloading and Removal

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS3	Multiloader	FCCU Catalyst Multiloader with Cartridge Filter	Normal - Steady State	E1400	CD20 (P)	PT4806		0.0	8,760.0		0.0	600.0	-20.0	120.0

U 53 WWTP Wastewater Treatment Plant Sewer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	API Separ.	WWTP: API oil/water separator	Normal - Steady State	E305	CD305001 (S) CD305002 (S) CD305003 (S) CD305004 (S) CD305005 (S) CD305006 (S)	PT289 PT290		0.0	8,760.0		320.0	410.0	20.0	150.0
OS5	DAF Lift Sta	WWTP: DAF lift station	Normal - Steady State	E329		PT329		0.0	8,760.0		0.0	45.0	20.0	150.0
OS6	DAF1	WWTP: DAF #1 - Dissolved Air Flotation Unit	Normal - Steady State	E330		PT330		0.0	8,760.0		0.0	100.0	20.0	150.0
OS7	DAF2	WWTP: DAF #2 - Dissolved Air Flotation Unit	Normal - Steady State	E331		PT331		0.0	8,760.0		0.0	100.0	20.0	150.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 53 WWTP Wastewater Treatment Plant Sewer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS8	DAF3	WWTP: DAF #3 - Dissolved Air Flotation Unit	Normal - Steady State	E336		PT330		0.0	8,760.0		0.0	100.0	20.0	150.0
OS9	DAF4	WWTP: DAF #4 - Dissolved Air Flotation Unit	Normal - Steady State	E337		PT331		0.0	8,760.0		0.0	100.0	20.0	150.0
OS10	Aera. Basin1	WWTP: Aeration Basin #1	Normal - Steady State	E332		PT332		0.0	8,760.0		0.0	100.0	20.0	150.0
OS11	Aera. Basin	WWTP: Aeration Basin #2	Normal - Steady State	E333		PT333		0.0	8,760.0		0.0	100.0	20.0	150.0
OS12	Clarifier 1	WWTP: Clarifier #1	Normal - Steady State	E334		PT334		0.0	8,760.0		0.0	100.0	20.0	150.0
OS13	Clarifier 2	WWTP: Clarifier #2	Normal - Steady State	E335		PT335		0.0	8,760.0		0.0	100.0	20.0	150.0

U 56 SRU Therm.Ox SRU Thermal Oxidizer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	cat regen	E313 - Tail Gas Unit # 80	Normal - Steady State	E313	CD15 (P)	PT305								
OS5	cat regen	E314 - Tail Gas Unit # 81	Normal - Steady State	E314	CD15 (P)	PT305								

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 56 SRU Therm.Ox SRU Thermal Oxidizer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS6	normal	E307 - Sulfur Recovery Unit # 3	Normal - Steady State	E307	CD15 (P)	PT305								
OS7	normal	E308 - Sulfur Recovery Unit # 2	Normal - Steady State	E308	CD15 (P)	PT305								
OS8	normal	E309 - SRU loading rack	Normal - Steady State	E309	CD15 (P)	PT305								
OS9	normal	E310 - SRU #2 Sulfur Pit (100,000 gallon capacity)	Normal - Steady State	E310	CD15 (P)	PT305								
OS10	normal	E311 - SRU #3 Sulfur Pit (100,000 gallon capacity)	Normal - Steady State	E311	CD15 (P)	PT305								

U 57 Diesel Engin Refinery Diesel Engines

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	No. 89 RW	No. 89 RW - 1500 BHP Diesel RICE - Water to Utilities (emergency)	Standby	E320		PT147								
OS2	FP @ 1185	FP @ 1185 - 1500 BHP Diesel RICE - Fire Pump @ Tank 1185	Standby	E324		PT207								
OS3	G-201	G-201 - 575 BHP Diesel RICE - Water to Utilities (emergency)	Standby	E325		PT303								

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 57 Diesel Engin Refinery Diesel Engines

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS4	G-202	G-202 - 575 BHP Diesel RICE - Fire Water	Standby	E326		PT302								
OS5	G-203	G-203 - 575 BHP Diesel RICE - Fire Water	Standby	E327		PT304								
OS6	G-205	G-205 - 460 BHP Diesel RICE - Fire Water	Standby	E328		PT230								
OS7	OM Diesel	OM Diesel - 475 BHP Diesel RICE - Oil Movements. (Non Emergency)	Normal - Steady State	E323		PT300		0.0	2,500.0					
OS8	Sldge Diesel	Sludge Diesel Engine - 75 BHP Diesel RICE (Non Emergency)	Normal - Steady State	E680		PT680		0.0	2,000.0		200.0	1,000.0		

U 59 Biorem Bioremediation Treatment Facility

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Biorem	Bioremediation Treatment Facility	Normal - Steady State	E653		PT701			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 65 Pet Coke Petroleum Coke Material Handling Operations

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Petcoke Hopp	Petroleum Coke Material Handling Operations - Hopper	Normal - Steady State	E657		PT657		0.0	8,760.0					
OS2	Petcoke Conv	Petroleum Coke Material Handling Operations - Conveyor	Normal - Steady State	E658		PT658		0.0	8,760.0					

U 66 CCR Vent CCR Chlorsorb Process Vent

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	White Burn	CCR Chlorsorb Process Vent Normal Operations - White Burn	Normal - Steady State	E1310	CD17 (P)	PT4809	3-06-016-01	0.0	8,760.0		0.0	600.0	200.0	400.0
OS2	Black Burn	CCR Chlorsorb Process Vent Normal Operations - Black Burn	Startup	E1310	CD17 (P)	PT4809	3-06-016-01	0.0	100.0		0.0	600.0	0.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 67 NP Retention Stormwater Retention System - North Pond

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	NP Pump #1	Godwin Pump with 250 BHP Diesel Engine #1 at North Pond Sump	Normal - Steady State	E671		PT671	A21-02-004-000	0.0	250.0					
OS2	NP Pump #2	Godwin Pump with 250 BHP Diesel Engine #2 at North Pond Sump	Normal - Steady State	E672		PT672	A21-02-004-000	0.0	250.0					
OS3	4193 tk	North Pond EFR Stormwater Diversion Tank - 08-F-290 (4193 tk)	Normal - Steady State	E673		PT673	A25-01-995-000	0.0	8,760.0				-20.0	500.0
OS4	ERB Pump #1	Godwin Pump with 250 BHP Diesel Engine #1 at ERB Sump	Normal - Steady State	E674		PT674	A21-02-004-000	0.0	250.0					
OS5	ERB Pump #2	Godwin Pump with 250 BHP Diesel Engine #2 at ERB Sump	Normal - Steady State	E675		PT675	A21-02-004-000	0.0	250.0					
OS6	4194 tk	EFR Stormwater Diversion Tank 4194 at WWTP	Normal - Steady State	E676		PT676	A25-01-995-000	0.0	8,760.0				-20.0	500.0
OS7	4195 tk	EFR Stormwater Diversion Tank 4195 at WWTP	Normal - Steady State	E677		PT677	A25-01-995-000	0.0	8,760.0				-20.0	500.0
OS8	NP Sump	Stormwater diversion sump at North Pond	Normal - Steady State	E678		PT678	3-06-005-15	0.0	8,760.0					
OS9	ERB Sump	Stormwater diversion sump at ERB near WWTP	Normal - Steady State	E679		PT679	3-06-005-15	0.0	8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 780 CCR Heater CCR F-1/2/3/4 Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CCR Htr	CCR Heater-normal operations	Normal - Steady State	E1200		PT780	3-06-001-05	0.0	8,760.0			160,923.0	200.0	800.0
OS2	CCR Htr-SS	Start-up & Shut-down of CCR Htr combusting RFG	Startup	E1200		PT780		0.0	200.0					

U 790 CCR Reblr #1 CCR F-101 Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal op.	CCR Reboiler-normal operation	Normal - Steady State	E1201		PT790	3-06-001-05		8,760.0			73,812.0	200.0	1,500.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 800 CCR Reblr #2 CCR F-5 Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CCRR-normal	CCR Area Reboiler #2, 27 MMBtu/hr-normal operations	Normal - Steady State	E1202		PT800	3-06-001-05	0.0	8,760.0			35,100.0	200.0	1,600.0

U 802 MPE Unit Multi Phase Extraction Unit

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	MPE Unit	LIQUID KNOCKOUT TANK	Normal - Steady State	E1313	CD305009 (P) CD305010 (S) CD305011 (T)	PT2005	3-06-999-99							
OS2	MPE Unit	OIL WATER SEPARATOR	Normal - Steady State	E1314	CD305009 (P) CD305010 (S) CD305011 (T)	PT2005	3-06-999-99							
OS3	MPE Unit	VACUUM PUMP	Normal - Steady State	E1315	CD305009 (P) CD305010 (S) CD305011 (T)	PT2005	3-06-999-99							
OS4	MPE Unit	PRODUCT STORAGE TANK	Normal - Steady State	E1316	CD305009 (P) CD305010 (S) CD305011 (T)	PT2005	3-06-999-99							

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 810 CCR F303 CCR Reformate Splitter Heater

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Ops	Normal Operation	Normal - Steady State	E1203		PT810			8,760.0		10,000.0	50,000.0		

U 850 Landfill Fugitive Landfill Emissions (ten vents)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Landfill	Landfill	Normal - Steady State	E1000		PT1000		0.0	8,760.0				-20.0	120.0

U 900 Floaters Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	E96 / EFRT 640 / 412,000 gal cap	Normal - Steady State	E96		PT78			8,760.0				20.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 900 Floaters Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	Normal Op	E97 / EFRT 641 / 412,000 gal cap	Normal - Steady State	E97		PT79			8,760.0				20.0	200.0
OS3	Normal Op	E99 / EFRT 692 / 392,000 gal cap	Normal - Steady State	E99		PT81			8,760.0				20.0	100.0
OS4	Normal Op	E100 / EFRT 693 / 392,000 gal cap	Normal - Steady State	E100		PT82			8,760.0				20.0	200.0
OS5	Normal Op	E102 / EFRT 724 / 844,000 gal cap	Normal - Steady State	E102		PT84			8,760.0				20.0	100.0
OS6	Normal Op	E103 / EFRT 725 / 806,000 gal cap	Normal - Steady State	E103		PT85			8,760.0				20.0	100.0
OS7	Normal Op	E107 / EFRT 802 / 1,050,000 gal cap	Normal - Steady State	E107		PT89			8,760.0				20.0	100.0
OS8	Normal Op	E122 / EFRT 1023 / 3,264,000 gal cap	Normal - Steady State	E122		PT104			8,760.0				20.0	100.0
OS9	Normal Op	E125 / EFRT 1027 / 270,000 gal cap	Normal - Steady State	E125		PT107			8,760.0				20.0	100.0
OS11	Normal Op	E128 / EFRT 1063 / 3,112,000 gal cap	Normal - Steady State	E128		PT110			8,760.0				20.0	100.0
OS12	Normal Op	E129 / EFRT 1064 / 3,098,000 gal cap	Normal - Steady State	E129		PT111			8,760.0				20.0	100.0
OS13	Normal Op	E130 / EFRT 1065 / 3,041,000 gal cap	Normal - Steady State	E130		PT112			8,760.0				20.0	100.0
OS14	Normal Op	E131 / EFRT 1066 / 3,112,000 gal cap	Normal - Steady State	E131		PT113			8,760.0				20.0	100.0
OS15	Normal Op	E132 / domed EFRT 1115 / 3,203,000 gal cap	Normal - Steady State	E132		PT114			8,760.0				20.0	100.0
OS16	Normal Op	E133 / EFRT 1116 / 3,260,000 gal cap	Normal - Steady State	E133		PT115			8,760.0				20.0	100.0
OS17	Normal Op	E141 / EFRT 1319 / 84,000 gal cap	Normal - Steady State	E141		PT123			8,760.0				20.0	350.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 900 Floaters Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS18	Normal Op	E142 / EFRT 1320 / 84,000 gal cap	Normal - Steady State	E142		PT124			8,760.0				20.0	350.0
OS19	Normal Op	E194 / EFRT 2173 / 476,000 gal cap	Normal - Steady State	E194		PT176			8,760.0				20.0	100.0
OS20	Normal Op	E217 / EFRT 2869 / 3,360,000 gal cap	Normal - Steady State	E217		PT199			8,760.0				20.0	100.0
OS21	Normal Op	E220 / EFRT 2940 / 6,300,000 gal cap	Normal - Steady State	E220		PT202			8,760.0				20.0	100.0
OS22	Normal Op	E221 / EFRT 2941 / 6,678,000 gal cap	Normal - Steady State	E221		PT203			8,760.0				20.0	100.0
OS23	Normal Op	E227 / IFRT 3018 / 2,646,000 gal	Normal - Steady State	E227		PT209			8,760.0				20.0	100.0
OS24	Normal Op	E230 / EFRT 3174 / 4,240,000 gal cap	Normal - Steady State	E230		PT212			8,760.0				20.0	100.0
OS25	Normal Op	E237 / EFRT 3577 / 1,800,000 gal cap	Normal - Steady State	E237		PT219			8,760.0				20.0	100.0
OS26	Normal Op	E238 / EFRT 3592 / 1,460,000 gal cap	Normal - Steady State	E238		PT220			8,760.0				20.0	200.0
OS27	Normal Op	E285 / EFRT S-74 / 12,600,000 gal cap	Normal - Steady State	E285		PT267			8,760.0				20.0	100.0
OS28	Normal Op	E286 / EFRT S-75 / 12,600,000 gal cap	Normal - Steady State	E286		PT268			8,760.0				20.0	100.0
OS29	Normal Op	E287 / EFRT S-76 / 12,600,000 gal cap	Normal - Steady State	E287		PT269			8,760.0				20.0	100.0
OS30	Normal Op	E288 / EFRT S-77 / 12,600,000 gal cap	Normal - Steady State	E288		PT270			8,760.0				20.0	100.0
OS31	Normal Op	E289 / EFRT S-78 / 12,600,000 gal cap	Normal - Steady State	E289		PT271			8,760.0				20.0	100.0
OS32	Normal Op	E290 / EFRT S-79 / 28,350,000 gal cap	Normal - Steady State	E290		PT272			8,760.0				20.0	100.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 900 Floaters Floating Roof Tnks storing VOC with VP <=13 psia at 70F (Subject to 40 CFR 63 Subparts CC & WW + NJAC 7:27-16)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS33	Normal Op	E291 / EFRT S-80 / 6,300,000 gal cap	Normal - Steady State	E291		PT273			8,760.0				20.0	100.0
OS34	Normal Op	E292 / EFRT S-81 / 6,300,000 gal cap	Normal - Steady State	E292		PT274			8,760.0				20.0	100.0
OS35	Normal Op	E293 / EFRT S-82 / 1,700,000 gal cap	Normal - Steady State	E293		PT275			8,760.0				20.0	100.0

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	E56 - Tk 1 - 205,800 gal cap - NA VOC	Normal - Steady State	E56		PT38			8,760.0					
OS2	Normal Op	E57 - Tk 2 - 400,000 gal cap - NA VOC	Normal - Steady State	E57		PT39			8,760.0					
OS3	Normal Op	E58 - Tk 3 - 400,000 gal cap - NA VOC	Normal - Steady State	E58		PT40			8,760.0					
OS4	Normal Op	E59 - Tk 4 - 400,000 gal cap - NA VOC	Normal - Steady State	E59		PT41			8,760.0					
OS5	Normal Op	E60 - Tk 5 - 400,000 gal cap - NA VOC	Normal - Steady State	E60		PT42			8,760.0					
OS6	Normal Op	E61 - Tk 8 - 303,000 gal cap - NA VOC	Normal - Steady State	E61		PT43			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS7	Normal Op	E62 - Tk 9 - 300,000 gal cap - NA VOC	Normal - Steady State	E62		PT44			8,760.0					
OS8	Normal Op	E63 - VFR Tk 41- 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F	Normal - Steady State	E63		PT45			8,760.0				20.0	200.0
OS9	Normal Op	E64 - Tk 42 - 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F	Normal - Steady State	E64		PT46			8,760.0				20.0	200.0
OS10	Normal Op	E65 - Tk 53 - 412,000 gal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E65		PT47			8,760.0				20.0	200.0
OS11	Normal Op	E66 - Tk 54 - 412,000 gal cap - A VOC - VP <= 0.6 psia @ 70F	Normal - Steady State	E66		PT48			8,760.0				20.0	200.0
OS12	Normal Op	E67 - Tk 93 - 1,470,000 gal cap - NA VOC	Normal - Steady State	E67		PT49			8,760.0					
OS13	Normal Op	E68 - Tk 218 - 199,000 gal cap - NA VOC	Normal - Steady State	E68		PT50			8,760.0					
OS14	Normal Op	E69 - Tk 219 - 199,000 gal cap - NA VOC	Normal - Steady State	E69		PT51			8,760.0					
OS15	Normal Op	E70 - Tk 335 - 255,000 gal cap - NA VOC	Normal - Steady State	E70		PT52			8,760.0					
OS16	Normal Op	E71 - Tk 368 - 2,226,000 gal cap - NA VOC	Normal - Steady State	E71		PT53			8,760.0					
OS17	Normal Op	E72 - Tk 385 - 250,000 gal cap - NA VOC	Normal - Steady State	E72		PT54			8,760.0					
OS18	Normal Op	E73 - Tk 386 - 250,000 gal cap - NA VOC	Normal - Steady State	E73		PT55			8,760.0					
OS19	Normal Op	E74 - Tk 391 - 257,000 gal cap - NA VOC	Normal - Steady State	E74		PT56			8,760.0					
OS20	Normal Op	E75 - Tk 392 - 257,000 gal cap - NA VOC	Normal - Steady State	E75		PT57			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS21	Normal Op	E76 - Tk 397 - 257,000 gal cap - NA VOC	Normal - Steady State	E76		PT58			8,760.0					
OS22	Normal Op	E77 - Tk 398 - 2,230,000 gal cap - NA VOC	Normal - Steady State	E77		PT59			8,760.0					
OS23	Normal Op	E78 - Tk 412 - 260,000 gal cap - A VOC - VP <= 1.0 psia @ 70F	Normal - Steady State	E65		PT60			8,760.0				20.0	200.0
OS24	Normal Op	E79 - Tk 448 - 600,000 gal cap - NA VOC	Normal - Steady State	E79		PT61			8,760.0					
OS25	Normal Op	E80 - Tk 449 - 600,000 gal cap - NA VOC	Normal - Steady State	E80		PT62			8,760.0					
OS26	Normal Op	E81 - Tank 457 - 399,000 gal cap - NA VOC	Normal - Steady State	E81		PT63			8,760.0					
OS27	Normal Op	E82 - Tk 481 - 125,000 gal cap - A VOC - VP <= 2.1 psia @ 70F	Normal - Steady State	E82		PT64			8,760.0				20.0	200.0
OS28	Normal Op	E83 - Tk 485 - 85,000 gal cap - A VOC - VP <= 3.5 psia @ 70F	Normal - Steady State	E83		PT65			8,760.0				20.0	200.0
OS29	Normal Op	E84 - Tk 510 - 413,000 gal cap - NA VOC	Normal - Steady State	E84		PT66			8,760.0					
OS30	Normal Op	E85 - Tk 557 - 612,000 gal cap - A VOC - VP <= 0.06 psia @ 70F	Normal - Steady State	E85		PT67			8,760.0					
OS31	Normal Op	E86 - Tk 558 - 1,300,000 gal cap - NA VOC	Normal - Steady State	E86		PT68			8,760.0				50.0	200.0
OS32	Normal Op	E23 - Tk 562 - 392,000 gal cap - caustic + A VOC - VP <= 1.4 psia @ 70F	Normal - Steady State	E23		PT306			8,760.0					
OS33	Normal Op	E89 - Tk 593 - 1,530,000 gal cap - NA VOC	Normal - Steady State	E89		PT71			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS34	Normal Op	E90 - Tk 594 - 2,200,000 gal cap - NA VOC	Normal - Steady State	E90		PT72			8,760.0					
OS35	Normal Op	E91 - Tk 595 - 2,200,000 gal cap - NA VOC	Normal - Steady State	E91		PT73			8,760.0					
OS36	Normal Op	E92 - Tk 634 - 410,000 gal cap - NA VOC	Normal - Steady State	E92		PT74			8,760.0				20.0	200.0
OS37	Normal Op	E93 - Tk 635 - 410,000 gal cap - NA VOC	Normal - Steady State	E93		PT75			8,760.0				20.0	200.0
OS38	Normal Op	E94 - Tk 636 - 410,000 gal cap - NA VOC	Normal - Steady State	E94		PT76			8,760.0				20.0	200.0
OS39	Normal Op	E95 - Tk 639 - 400,000 gal cap - NA VOC	Normal - Steady State	E95		PT77			8,760.0					
OS40	Normal Op	E98 - Tk 670 - 2,940,000 gal cap - NA VOC	Normal - Steady State	E98		PT80			8,760.0					
OS41	Normal Op	E101 - Tk 708 - 114,000 gal cap - NA VOC	Normal - Steady State	E101		PT83			8,760.0					
OS42	Normal Op	E104 - Tk 756 - 250,000 gal cap - NA VOC	Normal - Steady State	E104		PT86			8,760.0					
OS43	Normal Op	E105 - Tk 766 - 500,000 gal cap - NA VOC	Normal - Steady State	E105		PT87			8,760.0					
OS44	Normal Op	E106 - Tk 767 - 490,000 gal cap - NA VOC	Normal - Steady State	E106		PT88			8,760.0					
OS45	Normal Op	E109 - Tk 839 - 3,200,000 gal cap - NA VOC	Normal - Steady State	E109		PT91			8,760.0					
OS46	Normal Op	E110 - Tk 840 - 3,250,000 gal cap - NA VOC	Normal - Steady State	E110		PT92			8,760.0					
OS47	Normal Op	E112 - Tk 866 - 490,000 gal cap - NA VOC	Normal - Steady State	E112		PT94			8,760.0					
OS48	Normal Op	E113 - Tk 883 - 790,000 gal - NA VOC	Normal - Steady State	E113		PT95			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS49	Normal Op	E114 - Tk 935 - 3,250,000 gal cap - NA VOC	Normal - Steady State	E114		PT96			8,760.0					
OS50	Normal Op	E115 -Tk 936 - 3,250,000 gal cap - NA VOC	Normal - Steady State	E115		PT97			8,760.0					
OS51	Normal Op	E116 - Tk 937 - 3,200,000 gal cap - NA VOC	Normal - Steady State	E116		PT98			8,760.0				50.0	350.0
OS52	Normal Op	E117 - Tk 939 - 940,000 gal cap - NA VOC	Normal - Steady State	E117		PT99			8,760.0					
OS53	Normal Op	E118 - Tk 1000 - 3,200,000 gal cap - NA VOC	Normal - Steady State	E118		PT100			8,760.0				50.0	350.0
OS54	Normal Op	E120 - Tk 1021 - 924,000 gal cap - NA VOC	Normal - Steady State	E120		PT102			8,760.0					
OS55	Normal Op	E121 - Tk 1022 - 924,000 gal cap - NA VOC	Normal - Steady State	E121		PT103			8,760.0					
OS56	Normal Op	E123 - Tk 1024 - 3,150,000 gal cap - NA VOC	Normal - Steady State	E123		PT105			8,760.0					
OS57	Normal Op	E124 - Tk 1025 - 3,150,000 gal cap - NA VOC	Normal - Steady State	E124		PT106			8,760.0					
OS58	Normal Op	E126 - Tk 1028 - 1,500,000 gal cap - NA VOC	Normal - Steady State	E126		PT108			8,760.0				20.0	200.0
OS59	Normal Op	E134 - Tk 1117 - 3,150,000 gal cap - NA VOC	Normal - Steady State	E134		PT116			8,760.0					
OS60	Normal Op	E135 - Tk 1118 - 550,000 gal cap - NA VOC	Normal - Steady State	E135		PT117			8,760.0					
OS61	Normal Op	E136 - Tk 1131 - 350,000 gal cap - NA VOC	Normal - Steady State	E136		PT118			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS62	Normal Op	E137 - Tk 1132 - 350,000 gal cap - NA VOC	Normal - Steady State	E137		PT119			8,760.0					
OS63	Normal Op	E138 - Tk 1248 - 27,700 gal cap - A VOC - VP <= 9.5 psia @ 70 F	Normal - Steady State	E138		PT120			8,760.0					
OS64	Normal Op	E139 - Tk 1249 - 27,700 gal cap - A VOC - VP <= 9.5 psia @ 70 F	Normal - Steady State	E139		PT121			8,760.0					
OS65	Normal Op	E140 - Tk 1318 - 82,000 gal cap - A VOC - VP <= 6.5 psia @ 70F	Normal - Steady State	E140		PT122			8,760.0					
OS66	Normal Op	E143 - Tk 1321 - 80,000 gal cap - A VOC - VP <= 3.5 psia @ 70F	Normal - Steady State	E143		PT125			8,760.0					
OS67	Normal Op	E144 - Tk 1425 - 117,300 gal cap - NA VOC	Normal - Steady State	E144		PT126			8,760.0					
OS68	Normal Op	E145 - Tk 1426 - 100,800 gal cap - NA VOC	Normal - Steady State	E145		PT127			8,760.0					
OS69	Normal Op	E146 - Tk 1427 - 100,800 gal cap - NA VOC	Normal - Steady State	E146		PT128			8,760.0					
OS70	Normal Op	E147 - Tk 1428 - 100,800 gal cap - NA VOC	Normal - Steady State	E147		PT129			8,760.0					
OS71	Normal Op	E148 - Tk 1474 - 2,880,000 gal cap - NA VOC	Normal - Steady State	E148		PT130			8,760.0				50.0	350.0
OS72	Normal Op	E149 - Tk 1536 - 330,000 gal cap - NA VOC	Normal - Steady State	E149		PT131			8,760.0					
OS73	Normal Op	E150 - Tk 1537 - 330,000 gal cap - NA VOC	Normal - Steady State	E150		PT132			8,760.0					
OS74	Normal Op	E151 - Tk 1883 - 40,800 gal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E151		PT133			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS75	Normal Op	E152 - Tk 1886 - 420,000 gal cap - NA VOC	Normal - Steady State	E152		PT134			8,760.0					
OS76	Normal Op	E153 - Tk 1887 - 420,000 gal cap NA VOC	Normal - Steady State	E153		PT135			8,760.0					
OS77	Normal Op	E154 - Tk 1888 - 420,000 gal cap - NA VOC	Normal - Steady State	E154		PT136			8,760.0					
OS78	Normal Op	E155 - Tk 1889 - 420,000 gal cap - NA VOC	Normal - Steady State	E155		PT137			8,760.0					
OS79	Normal Op	E156 - Tk 1890 - 420,000 gal cap - NA VOC	Normal - Steady State	E156		PT138			8,760.0					
OS80	Normal Op	E157 - Tk 1891 - 475,000 gal cap - NA VOC	Normal - Steady State	E157		PT139			8,760.0					
OS81	Normal Op	E158 - Tk 1892 - 475,000 gal cap - NA VOC	Normal - Steady State	E158		PT140			8,760.0					
OS82	Normal Op	E159 - Tk 1898 - 476,000 gal cap - NA VOC	Normal - Steady State	E159		PT141			8,760.0					
OS83	Normal Op	E160 - Tk 1899 - 476,000 gal cap - NA VOC	Normal - Steady State	E160		PT142			8,760.0					
OS84	Normal Op	E161 - Tk 1911 - 798,000 gal cap - NA VOC	Normal - Steady State	E161		PT143			8,760.0				20.0	200.0
OS85	Normal Op	E162 - Tk 1912 - 612,000 gal cap - A VOC - VP <= 0.06 psia at 70 F	Normal - Steady State	E162		PT144			8,760.0				20.0	200.0
OS86	Normal Op	E168 - Tk 1929 - 31,700 gal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E168		PT150			8,760.0				20.0	150.0
OS87	Normal Op	E169 - Tk 1930 - 31,700 gal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E169		PT151			8,760.0				20.0	150.0
OS88	Normal Op	E170 - Tk 1941 - 695,000 gal cap - NA VOC	Normal - Steady State	E170		PT152			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS89	Normal Op	E171 - Tk 1942 - 695,000 gal cap - NA VOC	Normal - Steady State	E171		PT153			8,760.0					
OS90	Normal Op	E172 - Tk 1943 - 695,000 gal cap - NA VOC	Normal - Steady State	E172		PT154			8,760.0					
OS91	Normal Op	E173 - Tk 1944 - 695,000 gal cap - NA VOC	Normal - Steady State	E173		PT155			8,760.0					
OS92	Normal Op	E174 - Tk 1945 - 695,000 gal cap - NA VOC	Normal - Steady State	E174		PT156			8,760.0					
OS93	Normal Op	E175 - Tk 1946 - 695,000 gal cap - NA VOC	Normal - Steady State	E175		PT157			8,760.0					
OS94	Normal Op	E176 - Tk 1947 - 695,000 gal cap - NA VOC	Normal - Steady State	E176		PT158			8,760.0					
OS98	Normal Op	E180 - Tk 1962 - 245,000 gal cap - NA VOC	Normal - Steady State	E180		PT162			8,760.0					
OS99	Normal Op	E181 - Tk 1963 - 245,000 gal cap - NA VOC	Normal - Steady State	E181		PT163			8,760.0					
OS100	Normal Op	E182 - Tk 1964 - 245,000 gal cap - NA VOC	Normal - Steady State	E182		PT164			8,760.0					
OS101	Normal Op	E183 - Tk 1965 - 483,000 gal cap - NA VOC	Normal - Steady State	E183		PT165			8,760.0					
OS102	Normal Op	E184 - Tk 1969 - 5,900,000 gal cap - NA VOC	Normal - Steady State	E184		PT166			8,760.0				50.0	350.0
OS103	Normal Op	E185 - Tk 1970 - 5,700 Mgal cap - NA VOC	Normal - Steady State	E185		PT167			8,760.0				50.0	350.0
OS104	Normal Op	E186 - Tk 2014 - 37,800 gal cap - NA VOC	Normal - Steady State	E186		PT168			8,760.0				50.0	350.0
OS105	Normal Op	E187 - Tk 2015 - 37,800 gal cap - NA VOC	Normal - Steady State	E187		PT169			8,760.0				50.0	350.0
OS106	Normal Op	E188 - Tk 2016 - 37,800 gal cap - NA VOC	Normal - Steady State	E188		PT170			8,760.0				50.0	350.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS107	Normal Op	E189 - Tk 2017 - 37,800 gal cap - NA VOC	Normal - Steady State	E189		PT171			8,760.0				50.0	350.0
OS108	Normal Op	E190 - Tk 2041 - 800 Mgal cap - NA VOC	Normal - Steady State	E190		PT172			8,760.0				50.0	400.0
OS109	Normal Op	E191 - Tk 2042 - 800 Mgal cap - NA VOC	Normal - Steady State	E191		PT173			8,760.0				50.0	400.0
OS110	Normal Op	E192 - Tk 2043 - 800 Mgal cap - NA VOC	Normal - Steady State	E192		PT174			8,760.0				50.0	400.0
OS111	Normal Op	E193 - Tk 2044 - 800 Mgal cap - NA VOC	Normal - Steady State	E193		PT175			8,760.0				50.0	400.0
OS112	Normal Op	E195 - Tk 2407 - 14 Mgal cap - A VOC - VP <= 13.0 psia @ 70F	Normal - Steady State	E195		PT177			8,760.0					
OS113	Normal Op	E198 - Tk 2503 - 4,160 Mgal cap - NA VOC	Normal - Steady State	E198		PT180			8,760.0				50.0	450.0
OS114	Normal Op	E199 - Tk 2504 - 4,160 Mgal cap - NA VOC	Normal - Steady State	E199		PT181			8,760.0				50.0	450.0
OS115	Normal Op	E301 - Tk 2705 - 4,800 gal cap - A VOC - VP <= 13.0 psia @ 70F	Normal - Steady State	E301		PT283			8,760.0					
OS123	Normal Op	E207 - Tk 2799 - 1,260 Mgal cap - NA VOC	Normal - Steady State	E207		PT189			8,760.0					
OS124	Normal Op	E208 - Tk 2800 - 1,260 Mgal cap - NA VOC	Normal - Steady State	E208		PT190			8,760.0					
OS125	Normal Op	E209 - Tk 2807 - 3,150 Mgal cap - A VOC - VP <= 0.06 psia at 70 F	Normal - Steady State	E209		PT191			8,760.0				20.0	200.0
OS126	Normal Op	E210 - Tk 2808 - 3,150 Mgal cap - A VOC - VP <= 0.06 psia at 70 F	Normal - Steady State	E210		PT192			8,760.0				20.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS127	Normal Op	E211 - Tk 2816 - 44 Mgal cap - A VOC - VP <= 7.5 psia at 70 F	Normal - Steady State	E211		PT193			8,760.0					
OS128	Normal Op	E212 - Tk 2817 - 44 Mgal cap - A VOC - VP <= 7.5 psia at 70 F	Normal - Steady State	E212		PT194			8,760.0					
OS130	Normal Op	E214 - Tk 2840 - 88 Mgal cap - A VOC - VP <= 3.5 psia at 70 F	Normal - Steady State	E214		PT196			8,760.0					
OS131	Normal Op	E215 - Tk 2841 - 88 Mgal cap - A VOC - VP <= 3.5 psia at 70 F	Normal - Steady State	E215		PT197			8,760.0					
OS132	Normal Op	E216 - Tk 2842 - 88 Mgal cap - A VOC - VP - <= 3.5 psia at 70 F	Normal - Steady State	E216		PT198			8,760.0					
OS133	Normal Op	E219 - Tk 2910 - 2,100 Mgal cap - A VOC - VP <= 0.08 psia at 70 F	Normal - Steady State	E219		PT201			8,760.0				20.0	200.0
OS134	Normal Op	E223 - Tk 2949 - 84 Mgal cap - A VOC - VP <= 3.0 psia at 70 F	Normal - Steady State	E223		PT205			8,760.0					
OS135	Normal Op	E224 - Tk 2950 - 84 Mgal cap - A VOC - VP <= 3.0 psia at 70 F	Normal - Steady State	E224		PT206			8,760.0					
OS136	Normal Op	E226 - Tk 3001 - 42 Mgal cap - A VOC - VP <= 6.0 psia at 70 F	Normal - Steady State	E226		PT208			8,760.0					
OS137	Normal Op	E229 - Tk 3042 - 29 Mgal cap - A VOC - VP <= 9.5 psia at 70 F	Normal - Steady State	E229		PT211			8,760.0					
OS138	Normal Op	E231 - Tk 3211- 13,800 gal cap - A VOC - VP <= 11.5 psia at 70 F	Normal - Steady State	E231		PT213			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS139	Normal Op	E232 - Tk 3244 - 20 Mgal cap - A VOC - VP <= 10.5 psia at 70 F	Normal - Steady State	E232		PT214			8,760.0					
OS140	Normal Op	E233 - Tk 3432 - 110 Mgal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E233		PT215			8,760.0				20.0	100.0
OS141	Normal Op	E234 - Tk 3457 - 110 Mgal cap - A VOC - VP <= 0.5 psia @ 70F	Normal - Steady State	E234		PT216			8,760.0				20.0	100.0
OS142	Normal Op	E294 - Tk 3551 - 14,800 gal cap - A VOC - VP <= 13 psia @ 70F	Normal - Steady State	E294		PT276			8,760.0					
OS143	Normal Op	E295 - Tk 3552 - 14,800 gal cap - A VOC - VP <= 13 psia @ 70F	Normal - Steady State	E295		PT277			8,760.0					
OS144	Normal Op	E296 - Tk 3634 - 10,100 gal cap - A VOC - VP <= 13 psia @ 70F	Normal - Steady State	E296		PT278			8,760.0					
OS145	Normal Op	E239 - Tk 3734 - 2,800 gal cap - A VOC - VP <= 13 psia @ 70F	Normal - Steady State	E239		PT221			8,760.0					
OS146	Normal Op	E241 - Tk 3187 (51F1) - 25,200 gal cap - A VOC - VP <= 10.5 psia @ 70F	Normal - Steady State	E241		PT223			8,760.0					
OS147	Normal Op	E240 - Tk 32F13 - 274 Mgal cap - NA VOC	Normal - Steady State	E240		PT222			8,760.0					
OS148	Normal Op	E242 - Tk 3771 (51F2) - 25,200 gal cap - A VOC - VP <= 10.5 psia @ 70F	Normal - Steady State	E242		PT224			8,760.0					
OS149	Normal Op	E249 - Tk S-1 - 2,184 Mgal cap - NA VOC	Normal - Steady State	E249		PT231			8,760.0					

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS150	Normal Op	E250 - Tk S-3 - 2,140 Mgal cap - A VOC - VP <= 0.06 psia @ 70F	Normal - Steady State	E250		PT232			8,760.0					
OS151	Normal Op	E513 - Tk S-7 - 2,200 Mgal cap - NA VOC	Normal - Steady State	E513		PT307			8,760.0					
OS152	Normal Op	E251 - Tk S-8 - 2,250 Mgal cap - NA VOC	Normal - Steady State	E251		PT233			8,760.0					
OS155	Normal Op	E255 - Tk S-32 - 2,562 Mgal cap - A VOC - VP <= 0.06 psia @ 70F	Normal - Steady State	E255		PT237			8,760.0				50.0	100.0
OS156	Normal Op	E256 - Tk S-33 - 2,667 Mgal cap - A VOC - VP <= 0.06 psia @ 70F	Normal - Steady State	E256		PT238			8,760.0				50.0	100.0
OS157	Normal Op	E257 - Tk S-34 - 1,457 Mgal cap - NA VOC	Normal - Steady State	E257		PT239			8,760.0					
OS158	Normal Op	E258 - Tk S-35 - 2,150 Mgal cap - NA VOC	Normal - Steady State	E258		PT240			8,760.0					
OS159	Normal Op	E259 - Tk S-36 - 2,096 Mgal cap - A VOC - VP <= 0.06 psia @ 70F	Normal - Steady State	E259		PT241			8,760.0				50.0	100.0
OS160	Normal Op	E260 - Tk S-37 - 2,500 Mgal cap - NA VOC	Normal - Steady State	E260		PT242			8,760.0				20.0	200.0
OS161	Normal Op	E261 - Tk S-38 - 2,540 Mgal cap - A VOC - VP <= 0.08 psia @ 70F (NESHAPS FF carbon canister)	Normal - Steady State	E261		PT243			8,760.0					
OS162	Normal Op	E262 - Tk S-45 - 2,610 Mgal cap - NA VOC	Normal - Steady State	E262		PT244			8,760.0				20.0	200.0
OS163	Normal Op	E263 - Tk S-46 - 2,630 Mgal cap - NA VOC	Normal - Steady State	E263		PT245			8,760.0				20.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS164	Normal Op	E264 - Tk S-48 - 3,225 Mgal cap - NA VOC	Normal - Steady State	E264		PT246			8,760.0				20.0	200.0
OS165	Normal Op	E265 - Tk S-49 - 3,217 Mgal cap - NA VOC	Normal - Steady State	E265		PT247			8,760.0					
OS166	Normal Op	E266 - Tk S-50 - 3,190 Mgal cap - NA VOC	Normal - Steady State	E266		PT248			8,760.0					
OS167	Normal Op	E267 - Tk S-51 - 3,225 Mgal cap - NA VOC	Normal - Steady State	E267		PT249			8,760.0				20.0	200.0
OS168	Normal Op	E268 - Tk S-52 - 3,175 Mgal cap - NA VOC	Normal - Steady State	E268		PT250			8,760.0					
OS169	Normal Op	E269 - Tk S-53 - 3,230 Mgal cap - NA VOC	Normal - Steady State	E269		PT251			8,760.0				20.0	200.0
OS170	Normal Op	E270 - Tk S-54 - 3,220 Mgal cap - NA VOC	Normal - Steady State	E270		PT252			8,760.0				20.0	200.0
OS171	Normal Op	E271 - Tk S-55 - 3,280 Mgal cap - NA VOC	Normal - Steady State	E271		PT253			8,760.0				20.0	200.0
OS172	Normal Op	E272 - Tk S-57 - 3,270 Mgal cap - NA VOC	Normal - Steady State	E272		PT254			8,760.0				50.0	100.0
OS173	Normal Op	E273 - Tk S-58 - 3,210 Mgal cap - NA VOC	Normal - Steady State	E273		PT255			8,760.0				20.0	200.0
OS174	Normal Op	E274 - Tk S-59 - 3,180 Mgal cap - NA VOC	Normal - Steady State	E274		PT256			8,760.0				20.0	200.0
OS175	Normal Op	E275 - Tk S-60 - 3,210 Mgal cap - NA VOC	Normal - Steady State	E275		PT257			8,760.0				20.0	200.0
OS176	Normal Op	E276 - Tk S-61 - 3,200 Mgal cap - NA VOC	Normal - Steady State	E276		PT258			8,760.0				20.0	200.0
OS177	Normal Op	E277 - Tk S-62 - 3,190 Mgal cap - NA VOC	Normal - Steady State	E277		PT259			8,760.0				20.0	200.0
OS179	Normal Op	E279 - Tk S-64 - 3,200 Mgal cap - NA VOC	Normal - Steady State	E279		PT261			8,760.0				20.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 901 Fixed Roof Vert fixed roof tnks storing applicable (A) and non-applicable (NA) VOC's

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS180	Normal Op	E280 - Tk S-65 - 3,230 Mgal cap - NA VOC	Normal - Steady State	E280		PT262			8,760.0				20.0	200.0
OS181	Normal Op	E281 - Tk S-66 - 3,180 Mgal voc - NA VOC	Normal - Steady State	E281		PT263			8,760.0				20.0	200.0
OS182	Normal Op	E282 - Tk S-67 - 3,180 Mgal cap - NA VOC	Normal - Steady State	E282		PT264			8,760.0				20.0	200.0
OS183	Normal Op	E283 - Tk S-68 - 3,200 Mgal cap - NA VOC	Normal - Steady State	E283		PT265			8,760.0				20.0	200.0
OS184	Normal Op	E284 - Tk S-70 - 3,230 Mgal cap - NA VOC	Normal - Steady State	E284		PT266			8,760.0				20.0	200.0
OS185	Normal Op	E297 - VFR Tnk 3157 - 45,000 gal cap - Diethanolamine + H2S + H2O + VOC VP <= 6.0 psia @ 70F (N2 blanketed)	Normal - Steady State	E297		PT279			8,760.0				20.0	100.0
OS186	Normal Op	E298 - VFR Tnk 3169 - 13,500 gal cap - Diethanolamine + H2S + H2O + VOC VP <= 6.0 psia @ 70F (N2 blanketed)	Normal - Steady State	E298		PT280			8,760.0				20.0	100.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 902 Fixed w/ CC Vert fixed roof tnks, storing applicable VOC, subject to NESHAPS FF/ NSPS QQQ, equipped with closed vent systems + carbon canisters

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	E164 - Tnk 1917 - 235 Mgal cap - VOC VP <= 1.2 psia @70F	Normal - Steady State	E164	CD7 (P)	PT146								
OS2	Normal Op	E165 - Tnk 1918 - 235 Mgal cap - VOC VP <= 1.2 psia @70F	Normal - Steady State	E165	CD7 (P)	PT146								
OS3	Normal Op	E166 - Tnk 1919 - 235 Mgal cap - VOC VP <= 1.2 psia @70F	Normal - Steady State	E166	CD8 (P)	PT148								
OS4	Normal Op	E167 - Tnk 1920 - 235 Mgal cap - VOC VP <= 1.2 psia @70F	Normal - Steady State	E167	CD8 (P)	PT148								
OS5	Normal Op	E196 - Tnk 2417 (AG9) - 80 Mgal cap - VOC VP <= 3.5 psia @ 70F	Normal - Steady State	E196	CD9 (P)	PT178								
OS6	Normal Op	E197 - Tnk 2418 (AG10) - 80 Mgal cap - VOC VP <= 3.5 psia @ 70F	Normal - Steady State	E197	CD9 (P)	PT178								
OS7	Normal Op	E218 - Tnk 2885 (F4) - 126 Mgal cap - VOC VP <= 2.1 psia @ 70F	Normal - Steady State	E218	CD10 (P)	PT200								
OS8	Normal Op	E225 - Tnk 2983 (F4A) - 126 Mgal cap - VOC VP <= 2.1 psia @ 70F	Normal - Steady State	E225	CD10 (P)	PT200								
OS9	Normal Op	E338 - RW 22 Tank - 1900 gal cap - VOC VP <= 2.4 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG)	Normal - Steady State	E338		PT338		0.0	8,760.0				20.0	150.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 902 Fixed w/ CC Vert fixed roof tnks, storing applicable VOC, subject to NESHAPS FF/ NSPS QQQ, equipped with closed vent systems + carbon canisters

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS10	Normal Op	E339 - RW 24 Tank - 1900 gal cap - VOC VP <= 2.4 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG)	Normal - Steady State	E339		PT339		0.0	8,760.0				20.0	150.0
OS11	Normal Op	E340 - RW 26 Tank - 1900 gal cap - VOC VP <= 1.0 psia @ 70F (Subject to 40 CFR 63 Subpart GGGGG)	Normal - Steady State	E340		PT340		0.0	8,760.0				20.0	150.0

U 903 Non-VOC Non VOC Tanks (Alky / Amine / Sulfuric acid)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Normal Op	E243 - Fiberglass Open Roof Storage Tnk F301A - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).	Normal - Steady State	E243		PT225							20.0	200.0

PAULSBORO REFINING COMPANY LLC (55829)
BOP160002

Date: 1/13/2017

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 903 Non-VOC Non VOC Tanks (Alky / Amine / Sulfuric acid)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	Normal Op	E244 - Fiberglass Open Roof Storage Tnk F301B - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).	Normal - Steady State	E244		PT226							20.0	200.0
OS3	Normal Op	E245 - Fiberglass Open Roof Storage Tnk F303A - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).	Normal - Steady State	E245		PT227							20.0	200.0
OS4	Normal Op	E246 - Fiberglass Open Roof Storage Tnk F303B - 20,200 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).	Normal - Steady State	E246		PT228							20.0	200.0
OS5	Normal Op	E247 - Fiberglass Open Roof Storage Tnk F303 - 16,100 gal cap - NaF + NaCl + CaF2 + H2O + 5% NaOH + VOC (contaminant level).	Normal - Steady State	E247		PT229							20.0	200.0
OS8	Normal Op	E235 - VFR Tnk 3570 - 11,000 gal cap - H2SO4	Normal - Steady State	E235		PT217							20.0	100.0
OS9	Normal Op	E236 - VFR Tnk 3571 - 11,000 gal cap - H2SO4	Normal - Steady State	E236		PT218							20.0	100.0

Date: 1/13/2017

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR1 Group 1

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 10	OS0 Summary	
U	U 11	OS0 Summary	
U	U 12	OS0 Summary	
U	U 13	OS0 Summary	
U	U 14	OS0 Summary	
U	U 15	OS0 Summary	
U	U 16	OS0 Summary	
U	U 17	OS0 Summary	
U	U 18	OS0 Summary	
U	U 2	OS0 Summary	
U	U 20	OS0 Summary	
U	U 21	OS0 Summary	
U	U 22	OS0 Summary	
U	U 25	OS0 Summary	
U	U 26	OS0 Summary	
U	U 5	OS0 Summary	
U	U 6	OS0 Summary	
U	U 7	OS0 Summary	
U	U 780	OS0 Summary	
U	U 790	OS0 Summary	
U	U 8	OS0 Summary	
U	U 800	OS0 Summary	
U	U 9	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Other (explain): Avoid duplication of compliance requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR2 Group 2

Members:

Type	ID	OS	Step
U	U 10	OS1 normal op	
U	U 11	OS1 CU #6 Heater	
U	U 12	OS1 Normal op.	
U	U 12	OS2 Normal op.	
U	U 12	OS3 Decoking	
U	U 12	OS4 Decoking	
U	U 13	OS1 normal op	
U	U 13	OS2 normal op	
U	U 14	OS1 normal op	
U	U 15	OS1 normal op	
U	U 15	OS2 normal op	
U	U 16	OS1 normal op	
U	U 17	OS1 Normal Op	
U	U 18	OS1 Normal Op	
U	U 2	OS1 PtR B-1-norm	
U	U 20	OS1 Normal op.	
U	U 20	OS10 Boiler2A-SS	
U	U 20	OS11 Boiler2B-SS	
U	U 20	OS12 Boiler2C-SS	
U	U 20	OS13 GTG/HRSG-SS	
U	U 20	OS2 Normal op.	
U	U 20	OS3 Normal op.	
U	U 20	OS30 Boiler 3A	
U	U 20	OS31 Boiler 3B	
U	U 20	OS4 Normal op.	
U	U 5	OS1 PtRB-104 nor	

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Members:

Type	ID	OS	Step
U	U 56	OS0 Summary	
U	U 6	OS1 normal op	
U	U 780	OS1 CCR Htr	
U	U 790	OS1 Normal op.	
U	U 8	OS1 CU7 F--1A	
U	U 800	OS1 CCRR-normal	
U	U 9	OS1 normal op	
U	U 9	OS2 emergency op	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Avoid duplication of applicable requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR3 Group 3

Members:

Type	ID	OS	Step
U	U 21	OS0 Summary	
U	U 22	OS0 Summary	
U	U 25	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Avoid duplication of applicable requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR4 Group 4

Members:

Type	ID	OS	Step
U	U 67	OS3 4193 tk	
U	U 67	OS6 4194 tk	
U	U 67	OS7 4195 tk	
U	U 900	OS1 Normal Op	
U	U 900	OS11 Normal Op	
U	U 900	OS12 Normal Op	
U	U 900	OS13 Normal Op	
U	U 900	OS14 Normal Op	
U	U 900	OS15 Normal Op	
U	U 900	OS16 Normal Op	
U	U 900	OS17 Normal Op	
U	U 900	OS18 Normal Op	
U	U 900	OS19 Normal Op	
U	U 900	OS2 Normal Op	
U	U 900	OS20 Normal Op	
U	U 900	OS21 Normal Op	
U	U 900	OS22 Normal Op	
U	U 900	OS24 Normal Op	
U	U 900	OS25 Normal Op	
U	U 900	OS26 Normal Op	
U	U 900	OS27 Normal Op	
U	U 900	OS28 Normal Op	
U	U 900	OS29 Normal Op	
U	U 900	OS3 Normal Op	
U	U 900	OS30 Normal Op	
U	U 900	OS31 Normal Op	

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Members:

Type	ID	OS	Step
U	U 900	OS32 Normal Op	
U	U 900	OS33 Normal Op	
U	U 900	OS34 Normal Op	
U	U 900	OS35 Normal Op	
U	U 900	OS4 Normal Op	
U	U 900	OS5 Normal Op	
U	U 900	OS6 Normal Op	
U	U 900	OS7 Normal Op	
U	U 900	OS8 Normal Op	
U	U 900	OS9 Normal Op	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Avoid duplication of applicable requirements in compliance plan

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR5 Group 5

Members:

Type	ID	OS	Step
U	U 53	OS0 Summary	
U	U 53	OS4 API Separ.	
U	U 67	OS3 4193 tk	
U	U 67	OS6 4194 tk	
U	U 67	OS7 4195 tk	
U	U 67	OS8 NP Sump	
U	U 67	OS9 ERB Sump	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Avoid duplication of applicable requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR6 Group 6

Members:

Type	ID	OS	Step
U	U 900	OS1 Normal Op	
U	U 900	OS11 Normal Op	
U	U 900	OS12 Normal Op	
U	U 900	OS13 Normal Op	
U	U 900	OS14 Normal Op	
U	U 900	OS15 Normal Op	
U	U 900	OS16 Normal Op	
U	U 900	OS17 Normal Op	
U	U 900	OS18 Normal Op	
U	U 900	OS19 Normal Op	
U	U 900	OS2 Normal Op	
U	U 900	OS20 Normal Op	
U	U 900	OS21 Normal Op	
U	U 900	OS22 Normal Op	
U	U 900	OS23 Normal Op	
U	U 900	OS24 Normal Op	
U	U 900	OS25 Normal Op	
U	U 900	OS26 Normal Op	
U	U 900	OS27 Normal Op	
U	U 900	OS28 Normal Op	
U	U 900	OS29 Normal Op	
U	U 900	OS3 Normal Op	
U	U 900	OS30 Normal Op	
U	U 900	OS31 Normal Op	
U	U 900	OS32 Normal Op	
U	U 900	OS33 Normal Op	

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Members:

Type	ID	OS	Step
U	U 900	OS34 Normal Op	
U	U 900	OS35 Normal Op	
U	U 900	OS4 Normal Op	
U	U 900	OS5 Normal Op	
U	U 900	OS6 Normal Op	
U	U 900	OS7 Normal Op	
U	U 900	OS8 Normal Op	
U	U 900	OS9 Normal Op	
U	U 901	OS11 Normal Op	
U	U 901	OS127 Normal Op	
U	U 901	OS128 Normal Op	
U	U 901	OS130 Normal Op	
U	U 901	OS131 Normal Op	
U	U 901	OS132 Normal Op	
U	U 901	OS134 Normal Op	
U	U 901	OS135 Normal Op	
U	U 901	OS136 Normal Op	
U	U 901	OS161 Normal Op	
U	U 901	OS27 Normal Op	
U	U 901	OS28 Normal Op	
U	U 901	OS32 Normal Op	
U	U 901	OS65 Normal Op	
U	U 901	OS66 Normal Op	
U	U 901	OS8 Normal Op	
U	U 901	OS9 Normal Op	
U	U 902	OS1 Normal Op	
U	U 902	OS2 Normal Op	

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Members:

Type	ID	OS	Step
U	U 902	OS3 Normal Op	
U	U 902	OS4 Normal Op	
U	U 902	OS5 Normal Op	
U	U 902	OS6 Normal Op	
U	U 902	OS7 Normal Op	
U	U 902	OS8 Normal Op	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain):

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR8 Group 8

Members:

Type	ID	OS	Step
U	U 53	OS0 Summary	
U	U 802	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Avoid duplication of applicable requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR9 Group 9

Members:

Type	ID	OS	Step
U	U 900	OS1 Normal Op	
U	U 900	OS2 Normal Op	
U	U 900	OS25 Normal Op	
U	U 900	OS26 Normal Op	
U	U 900	OS27 Normal Op	
U	U 900	OS28 Normal Op	
U	U 900	OS29 Normal Op	
U	U 900	OS3 Normal Op	
U	U 900	OS30 Normal Op	
U	U 900	OS31 Normal Op	
U	U 900	OS32 Normal Op	
U	U 900	OS4 Normal Op	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): EXEMPT FROM DOMING REQUIREMENTS PER N.J.A.C. 7:27-16.2(f)4

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances: