State of New Jersey
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

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

CATHERINE R. McCABE
Commissioner

Air Pollution Control Operating Permit
Renewal

Permit Activity Number: BOP180001 **Program Interest Number: 45979**

Mailing Address	Plant Location
CLINT BOGAN POWER PLANT MANAGER - PEAKING PSEG FOSSIL KEARNY GENERATING STATION 118 N HACKENSACK AVE Kearny, NJ 07032	PSEG FOSSIL LLC BURLINGTON GENERATING STA 200 Devlin Ave & W Broad St Burlington Twp Burlington County

Initial Operating Permit Approval Date: **February 25, 2005**
Operating Permit Approval Date: **DRAFT**
Operating Permit Expiration Date: **February 24, 2025**

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Consequently, pursuant to N.J.A.C. 7:27-22.33, all preconstruction permits and operating certificates issued to this facility have been incorporated in this operating permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in 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 Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at http://www.nj.gov/dep/aqpp.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities 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. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision 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 specified in N.J.A.C. 7:27-1.32 and the information on the NJ04 - Administrative Hearing Request Checklist and Tracking Form available at https://www.state.nj.us/dep/aqpp/applying.html.

If you have any questions regarding this permit approval, please call Aliya M. Khan at (609) 292-2169

Approved by:

_____

David J. Owen

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

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Section A

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations[1] at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	16.8	135	105	3.9	18.8	18.8	18.8	NA	1.41	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	16.8	135	105	3.9	18.8	18.8	18.8	NA	1.41	248,378

Table 2: Estimate of total emissions from all Insignificant Source Operations[1] and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Insignificant Source Operations	4.3	16.3	3.8	BT	1.1	1.2	1.2	BT	0.54
Non-Source Fugitive Emissions[3]	3.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO_2: 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
CO_2e: Carbon Dioxide equivalent
N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

*Emissions of individual HAPs are provided in Table 3 on the next page.
Emissions of "Other" air contaminants are provided in Table 4 on the next page.

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total CO_2e emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.
[3] Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations [4]:

HAP	TPY
1,3-Butadiene	0.005
1-Methylnapthalene	0.00234
7,12-Dimethylbenz(a)anthracene	0.0000065
Acetaldehyde	0.052
Acrolein	0.011
Arsenic	0.0031
Benzene	0.025
Beryllium	0.000083
Cadmium	0.0017
Cobalt	0.000034
Dioxin/Furan	0.00000033
Ethylbenzene	0.042
Formaldehyde	0.981
Lead	0.0042
Manganese	0.22
Naphthalene	0.0105
Nickel	0.00154
PAH	0.013
POM	0.013
Propylene Oxide	0.038

Table 4: Summary of "Other" air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
Methane	2.92
Nitrous Oxide	0.33

[4] 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 B

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

GENERAL PROVISIONS AND AUTHORITIES

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 that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements 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:

   a. 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

   b. 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

   c. 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 PM 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. a. 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 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.

    b. For situations other than those covered 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 startup 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)]

11. 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)]

12. 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]

13. 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 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]

14. 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.

15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).

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 or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, 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 Air Pollution Control 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 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 reoccur 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. 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.

19. The permittee is responsible for submitting timely and administratively complete operating permit applications:

    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).

20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website http://www.nj.gov/dep/aqpp/applying.html (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, the renewal application shall include all 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 any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

    i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and

    ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.

22. Consistent with EPA's National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.

23. 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)]

24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department's Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

Section C

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

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. #
B	---	1	---
B	---	13b	---
D	FC	---	3
D	FC	---	9
D	GR3	---	1-13

Section D

Facility Name: PSEG FOSSIL LLC BURLINGTON GENERATING STA
Program Interest Number: 45979
Permit Activity Number: BOP180001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 190003

Description of Modifications: PSEG Fossil LLC is submitting the enclosed application to renew the Title V Operating Permit for the Burlington Generating Station. The Title V permit expires on February 24, 2020.

In accordance with N.J.A.C. 7:27-22.4(e), PSEG Fossil is submitting this renewal application at least 15 months prior to permit expiration, so that any deficiencies identified in the application can be addressed and the enclosed renewal application can qualify for an "application shield" pursuant to N.J.A.C. 7:27-22.7(b). 5.

This renewal includes a significant modification to the Title V Permit to install and operate one
(1) new natural-gas fired Hot Water Heater at PSE&G's Burlington Liquefied Natural Gas ("LNG") Plant.
The new Hot Water Heater is a 'significant source operation" as defined under N.J.A.C. 7:27-22.1, because it has a heat input capacity greater than one (1) million British thermal units per hour ("MMBtu/hr"). The new Hot Water Heater has a heat input capacity of approximately 33.3 MMBtu/hr.

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: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [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
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [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)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C.7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [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)]
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]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The Department and its authorized representatives shall have the right to enter and inspect any activity 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]	None.	None.	None.
17	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]	None.	None.	None.
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee 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 permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee 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)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Subject Item: **IS1 Insignificant Liquid Storage Tanks or Vessels**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	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)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27- 9.2(b)]	Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27- 9.2(b)]	None.
3	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-17.9, Table 2. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	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, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of IS(15) and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS2 Commercial Fuel Equipment < 1MMBtu/hr and Non-Emergency Electric Generators < 37 kW**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible smoke from the combustion of fuel in any stationary indirect heat exchanger except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	Other: Periodic visual inspections. [N.J.A.C. 7:27-3.2(a)] &[N.J.A.C. 7:27- 3.2(c)].	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts 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)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27- 9.2(b)]	Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27- 9.2(b)]	None.

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Facility Specific Requirements

Subject Item: **IS5 Cold Cleaning Machines(< 6ft^2, open top,<=100 gal capacity,>2 gal solvents, > 5% VOC content)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Solvent must contain less than 5% by weight of any combination of methylene chloride, perchloroethylene, 1,1,1-trichloroethane, carbon tetrachloride and chloroform. [40 CFR 63.460(a)]	Other: Monitored by formulation data. At the time of filling, confirm by Material Safety Data Sheets (MSDS) or bill of lading[40 CFR 63.460(a)].	Recordkeeping by invoices / bills of lading at the approved frequency (per filling, showing materials being delivered). [N.J.A.C. 7:27-22.16(o)]	None.
2	No halogenated solvents are to be used in this equipment [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by formulation data at each change of solvent. At the time of filling, confirm by MSDS or bill of lading, Maintain Material Safety Data Sheets on-site.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	For a cold cleaning machine using 2 gallons or more of solvent containing greater than 5% VOC content by weight, no person shall add solvent to the machine, or cause, suffer, allow, or permit the machine to be operated, unless the machine has a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable provisions of the operating requirements in N.J.A.C. 7:27-16.6(j)2. [N.J.A.C. 7:27-16.6(j)1ii]	Other: Visual determination.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	No person shall add solvent to the machine or cause, suffer, allow, or permit the machine to be operated, unless there is a tightly fitting working-mode cover that completely covers the machine's opening. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six inches shall constitute an acceptable cover. [N.J.A.C. 7:27-16.6(j)1iii]	Other: Keep closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed.[[N.J.A.C. 7:27-22.16(o)].	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Flushing Wand Line Pressure <= 10 psig. Flushing of parts with a solvent spray, using a spray head attached to a flexible hose or other flushing device, shall be performed only within the freeboard area of the machine. The solvent spray shall be a continuous fluid stream, not an atomized or shower spray, and shall be under a pressure that does not exceed 10 psig. [N.J.A.C. 7:27-16.6(j)1iii]	Other: Visual determination.[[N.J.A.C. 7:27-19].	None.	None.
6	Parts being cleaned shall be drained for at least 15 seconds or until the dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that solvent drains directly back into the machine. [N.J.A.C. 7:27-16.6(j)2iii]	Other: Visual determination.[[N.J.A.C. 7:27-22.16(o)].	None.	None.
7	Spills during solvent transfer and use of the machine shall be cleaned up immediately, and the wipe rags or other sorbent material used shall be immediately stored in covered containers for disposal or recycling. [N.J.A.C. 7:27-16.6(j)2vii]	Other: Visual determination.[[N.J.A.C. 7:27-22.16(o)].	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	A person shall not use, in a cold cleaning machine, any solvent that has a vapor pressure of 1 mmHg or greater, measured at 20 Degrees C (68 Degrees F). [N.J.A.C. 7:27-16.6(j)3]	None.	Other: A person who owns or operates a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department: i. The name and address of the person selling the solvent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the seller's name and address on it, may be used to satisfy this requirement; ii. A list of VOC(s) and their concentration information in the solvent; iii. Information about each VOC listed pursuant to ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement; iv. The solvents product number assigned by the manufacturer; and v. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees centigrade (68 degrees Fahrenheit)[N.J.A.C. 7:27-22.16(o)].	None.

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Subject Item: **IS6 Surface coating operations < 0.5 gallons/ hour**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum surface coating formulation usage < 2.5 gal/day. [N.J.A.C. 7:27-16.7(e)1]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(o)].	None.
2	Maximum surface coating formulation usage < 0.5 gal/hr. [N.J.A.C. 7:27-16.7(e)1] and [N.J.A.C. 7:27-22.1]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(o)].	None.
3	Allowable emission rate for particulates. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
4	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney into the outdoor air the shade or appearance of which is greater than 20% opacity, exclusive of 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.
5	No visible emissions, 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. 7:27-22.16(e)]	None.	None.	None.
6	Maximum surface coating formulation usage < 2.5 gal/day. [N.J.A.C. 7:27-16.7(e)1]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(o)].	None.
7	Maximum surface coating formulation usage < 0.5 gal/hr. [N.J.A.C. 7:27-16.7(e)1] and [N.J.A.C. 7:27-22.16(a)]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(e)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Maximum Allowable VOC Content per Volume of Coating VOC (Total) <= 6.01 lb/gal. [N.J.A.C. 7:27-22.16(e)]	Other: Monitor surface coating formulation.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manually or electronically log surface coating formulation records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(e)].	None.
9	Maimum surface coating formulation usage based on preconstruction permit <125 Gal/yr [N.J.A.C. 7:27-22.16(e)]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(o)].	None.
10	VOC (Total): Maximum Allowable VOC Content per Volume of Coating <= 2.0 gal/day [N.J.A.C. 7:27-22.16(e)]	Other: Monitor surface coating formulation usage.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manually or electronically log surface coating formulation usage records sufficient to determine compliance.[N.J.A.C. 7:27-22.16(o)].	None.

IS6 Surface coating operations < 0.5 gallons/ hour

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Subject Item: **IS15 Fuel oil storage tanks, with capacities >10,000 Gallons and < 0.02 psia vapor pressure**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-17.9, Table 2. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	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, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of IS(15) and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
9	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)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27- 9.2(b)]	Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27- 9.2(b)]	None.

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Subject Item: **GR2 GE LM6000PC Turbine Exchange**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	A complete list of all GE LM6000PC turbines involved in the Turbine Engine Exchange Program shall be kept at the site. This list shall include detailed information on the Make, Model, Serial Number, and Maximum Heat Input. In addition, the location of each turbine shall be identified and updated, as needed. Some turbine configurations may include inlet air cooling technology that would allow the GE LM6000PC model turbine to achieve a maximum heat input rate of no greater than 463 MMBtu/hr. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every time an turbine exchange occurs. Keep records of: a)The date the turbine exchange occurred, and b)Identification of the existing turbine being removed and exchange turbine by make, model, serial number and location. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Once initially and every time an engine exchange occurs. Submit notification to the Department's Regional Enforcement Office in writing no later than 7 days after any engine from the original fleet is exchanged with another engine from that fleet. [N.J.A.C. 7:27-22.16(o)]
2	The exchange turbine must have identical horsepower, heat rate, and maximum allowable emissions as the original turbine engine that is exchanged. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and every time an turbine exchange occurs. The Permittee shall keep a certification from the original manufacturer that all turbines in the turbine exchange program have the same air contaminant emissions profile. [N.J.A.C. 7:27-22.16(o)]	None.
3	The exchange program shall not exceed a 15-year period from the date of approval of BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. All records must be kept on site for at least fifteen years. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The facility must conduct a PSD applicability test by comparing the projected actual to baseline actual emissions each time a turbine is replaced. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations 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. Keep records of the PSD applicability test on site for five years beginning on the date of operation of the replacement turbine engine. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event. If the actual annual emission records show a net significant increase above the baseline actual emissions the facility shall inform the Department within 30 days of the increase in emissions. The report shall include an explanation as to why the emissions differ from the preconstruction projection. Submit a PSD major modification application if the results of the PSD applicability test show a net significant emission increase above the baseline actual emissions. [N.J.A.C. 7:27-22.16(o)]
5	If any of the actions performed as a result of the repair and maintenance constitute a modification or reconstruction as defined in N.J.A.C. 7:27-22, the facility's air permit must be modified to address the change. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event. The report shall be a permit modification application, if applicable. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements

Subject Item: **GR3 RGGI**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owners and operators of each CO2 budget source and each CO2 budget unit at the source shall, as of the CO2 allowance transfer deadline, hold CO2 allowances in the sources's compliance account, available for compliance deductions under N.J.A.C. 7:27C-6.9, as follows: 1) In the case of an initial control period, the number of CO2 allowances held shall be no less than the amount equivalent to the total CO2 emissions for the initial control period from all CO2 budget units at the source; 2) In the case of a control period, the number of CO2 allowances held shall be no less than the total CO2 emissions for the control period from all CO2 budget units at the source, less the CO2 allowances deducted to meet the requirements of N.J.A.C 7:27C-1.4(g) with respect to the previous two interim control periods, as determined in accordance with N.J.A.C 7:27C-6 and 7:27C-8; 3) In the case of an interim control period, the number of CO2 allowances held shall be no less than the total CO2 emissions for the interim control period from all CO2 budget units at the source, multiplied by 0.50, as determined in accordance with NJAC 7:27C-6 and 7:27C-8. [N.J.A.C. 7:27C-1.4(f)]	Monitored by calculations at the approved frequency. The Department shall use the emission measurements recorded and reported in accordance with N.J.A.C. 7:27C-8 to determine the unit's compliance. Total tons for a control period shall be calculated as the sum of all recorded hourly emissions (or the tonnage equivalent of the recorded hourly emissions rates) in accordance with N.J.A.C. 7:27C-8. The Department will round total CO2 emissions to the nearest whole ton, so that any fraction of a ton equal to or greater than 0.50 tons is deemed to equal one ton and any fraction of a ton less than 0.50 tons is deemed to equal zero tons. [N.J.A.C. 7:27C- 1.4(d)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Maintain records of all CO2 emissions from each CO2 budget unit. [N.J.A.C. 7:27C- 8]	Submit a report: 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). The CO2 authorized account representative shall submit quarterly reports to the Bureau of Energy and Sustainability, for each calendar quarter beginning with: i. For a unit that commences commercial operation before December 17, 2018, the calendar quarter beginning January 1, 2020; or ii. For a unit commencing commercial operation on or after December 17, 2018, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under N.J.A.C. 7:27C-8.1(d). If the calendar quarter so determined is the third or fourth quarter of 2019, reporting shall commence in the quarter beginning January 1, 2020. Quarterly reports shall be submitted in the manner specified in Subpart H of 40 CFR 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO2 budget unit (or group of units using a common stack), and shall include all of the data and information required in Subpart G of 40 CFR 75, except for opacity, heat input, NOx and SO2 provisions. The CO2 authorized account representative shall submit, to the Bureau of Energy and Sustainability, a compliance certification in support of each quarterly report, pursuant to N.J.A.C. 7:27C-8.5(c)3. [N.J.A.C. 7:27C-8.5(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	CO2 Allowance Tracking System (COATS): CO2 allowances shall be held in, deducted from, or transferred among COATS accounts in accordance with N.J.A.C 7:27C-5, 6, and 7. [N.J.A.C 7:27C-1.4(i)] A CO2 allowance shall not be deducted, in order to comply with N.J.A.C. 7:27-1.4(f), for a control period that ends prior to the year for which the CO2 allowance was allocated. [N.J.A.C 7:27C-1.4(j)] A CO2 offset allowance shall not be deducted, in order to comply with N.J.A.C. 7:27-1.4(f), beyond the applicable percent limitations at N.J.A.C. 7:27C6.9(a)3. [N.J.A.C. 7:27C- 1.4(k)]	Other: The Permittee shall review any transactions recorded in its COATS account for accuracy.[N.J.A.C. 7:27-22.16(o)].	None.	Submit a report: As per the approved schedule Submit compliance certification reports pursuant to N.J.A.C 7:27C-4.1(a) and CO2 allowance transfer requests, as necessary, pursuant to N.J.A.C 7:27C-7.1(a), to the Bureau of Energy and Sustainability If information in COATS account is found to be inaccurate, notify the Bureau of Energy and Sustainability. [N.J.A.C. 7:27-22.16(o)]
3	CO2: The owners and operators of a CO2 budget source that has excess emissions in any control period or in the initial control period, or has excess interim emissions in any interim control period, shall: 1. Forfeit the CO2 allowances required for deduction under N.J.A.C. 7:27C-6.9(e); 2. Not use any CO2 offset allowances to cover any part of such excess emissions; and 3. Pay any fine, penalty, or assessment or comply with any other remedy imposed under N.J.A.C. 7:27C-6.9(f). [N.J.A.C. 7:27C- 1.4(n)]	Other: The Permittee shall review any transactions recorded in its COATS account for accuracy.[N.J.A.C. 7:27-22.16(o)].	None.	Submit notification: Upon occurrence of event. If information in COATS account is found to be inaccurate, notify the Bureau of Energy and Sustainability. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO2: Account certificate of representation and supporting documents. [N.J.A.C. 7:27C-1.4(o)1]	None.	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source the account certificate of representation for the CO2 authorized account representative for the CO2 budget source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with N.J.A.C. 7:27C-2.4. These documents shall be retained on site at the source until such documents are superseded by a newly submitted account certificate of representation changing the CO2 authorized account representative. [N.J.A.C. 7:27C- 1.4(o)1]	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO2: Copies of Documents & Reports [N.J.A.C. 7:27C- 1.4(o)]	None.	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. The Department may at any time prior to the end of the 10-year period extend the 10-year period in writing, if it determines that retention of the documents beyond the 10-year period is necessary to determine compliance with the requirements of N.J.A.C. 7:27C: - All emissions monitoring information, in accordance with N.J.A.C. 7:27C-8 and 40 CFR 75.57; - Copies of all reports, compliance certifications, and other submissions, and all records made or required under the CO2 Budget Trading Program; and - Copies of all documents used to complete an application for a new or modified operating permit that incorporates the requirements of the CO2 Budget Trading Program and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program. [N.J.A.C 7:27C-1.4(o)2, [N.J.A.C 7:27C-1.4(o)3 and. [N.J.A.C. 7:27C-1.4(o)4]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO2: Compliance Certification Report: [N.J.A.C. 7:27C-1.4(p)] and [N.J.A.C. 7:27C- 4.1]	None.	None.	Submit a report: As per the approved schedule. For each control period, including the initial control period, in which a CO2 budget source is subject to the CO2 requirements of N.J.A.C 7:27C-1.4, the CO2 authorized account representative shall submit, to the Bureau of Energy and Sustainability, by March 1 following each relevant three-calendar-year control period, the compliance certification report that includes the following elements listed in N.J.A.C. 7:27C-4.1(b): 1. Identification of the CO2 budget source and each CO2 budget unit at the source; 2. At the CO2 authorized account representative's option, the serial numbers of the CO2 allowances that are to be deducted from the CO2 budget source's compliance account under N.J.A.C. 7:27C-6.9 for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to the limitations of N.J.A.C. 7:27C-6.9(a)3; and 3. The compliance certification: In the compliance certification report, the CO2 authorized account representative shall certify whether the CO2 budget source and each CO2 budget unit at the source for which the compliance certification is submitted was operated, during the calendar years covered by the report, in compliance with the requirements of the CO2 Budget Trading Program, based on reasonable inquiry of those persons with primary responsibility for operating the CO2 budget source and the CO2 budget units at the source in compliance with the CO2 Budget Trading Program. [N.J.A.C. 7:27C-4.1(b)] and. [N.J.A.C. 7:27C- 4.1]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	CO2: The owner or operator of each CO2 budget unit shall install all monitoring systems necessary to monitor CO2 mass emissions in accordance with 40 CFR Part 75, except for equation G-1 of Appendix G, which shall not be used to determine CO2 emissions. Compliance with this paragraph may require systems to monitor CO2 concentration, stack gas flow rate, O2 concentration, heat input, and fuel flow rate [N.J.A.C. 7:27C- 8.1(c)1]	Other: The owner or operator of a CO2 budget unit shall meet the monitoring system certification and other requirements of N.J.A.C. 7:27C-8.1(c) and shall quality-assure the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)2], [N.J.A.C 7:27C-8.1(c)3] and [N.J.A.C 7:27C-8.1(d)] The owner or operator shall ensure, for each continuous emissions monitoring system (including the automated data acquisition and handling system) the successful completion of all of the initial certification testing required under 40 CFR 75.20 by the applicable deadlines listed above. In addition, whenever the owner or operator installs a monitoring system in order to meet the requirements of N.J.A.C. 7:27C-8 in a location where no such monitoring system was previously installed, initial certification in accordance with 40 CFR 75.20 is required.[N.J.A.C. 7:27C- 8.2(d)].	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator of a CO2 budget unit shall record the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)3] and. [N.J.A.C. 7:27C-8.1(d)]	Submit a report: As per the approved schedule. The owner or operator of a CO2 budget unit shall report the data from the monitoring systems in accordance with the schedule prescribed in N.J.A.C. 7:27C-8.1(d)(1) for a CO2 budget unit that commenced commercial operation before December 17, 2018, N.J.A.C. 7:27C-8.1(d)(2) for a CO2 budget unit that commenced commercial operation on or after December 17, 2018 or N.J.A.C. 7:27C-8.1(d)(3) for a CO2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadlines at N.J.A.C. 7:27C-8.1(d)(1) and (2). [N.J.A.C 7:27C-8.1(c)3] and. [N.J.A.C. 7:27C- 8.1(d)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO2: The owner or operator of a CO2 budget unit that commenced commercial operation before December 17, 2018 and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by June 11, 2019; or a CO2 budget unit that commenced commercial operation on or after December 17, 2018 and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by June 11, 2019 or the earlier of 90 unit operating days or 180 calendar days after the date on which the unit commenced commercial operation; or a CO2 budget unit for which construction of a new stack or flue installation is completed after the above deadline and did not certify all monitoring systems required under N.J.A.C. 7:27C8.1(c) by the earlier of 90 unit operating days or 180 calendar days after the date on which emissions first exited the new stack or flue and entered the atmosphere; shall, for each such monitoring system, determine, record and report, the necessary data as specified. [N.J.A.C. 7:27C- 8.1(e)]	Other: The owner or operator shall, for each monitoring system, determine maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable.[N.J.A.C. 7:27C-8.1(e)].	CO2: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall, for each monitoring system, record maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable. [N.J.A.C. 7:27C- 8.1(e)]	Submit a report: As per the approved schedule. The owner or operator shall, for each monitoring system, report maximum (or, as appropriate, minimum) potential values for CO2 concentration, CO2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO2 mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3) and section 2.4 of Appendix D of 40 CFR Part 75, as applicable. [N.J.A.C. 7:27C-8.1(e)]
9	No owner or operator of a CO2 budget unit shall use any alternative monitoring system, alternative reference method, or any other alternative for the required continuous emissions monitoring system without having obtained prior written approval in accordance with N.J.A.C. 7:27C-8.6. [N.J.A.C. 7:27C-8.1(j)1]	None.	None.	Obtain approval: Upon occurrence of event. The CO2 authorized account representative of a CO2 budget unit may submit a petition to the Administrator under 40 CFR 75.66, and to the Department requesting approval to apply an alternative to any requirement of 40 CFR Part 75 or to a requirement concerning any additional CEMS required under the common stack provisions of 40 CFR 75.72 or a CO2 concentration CEMS used under 40 CFR 75.71(a)(2). [N.J.A.C. 7:27C-8.6]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO2: The owner or operator of a CO2 budget unit shall comply with the initial certification and recertification procedures set forth at N.J.A.C. 7:27C-8.2(d) through (r) for a continuous emissions monitoring system and an excepted monitoring system under Appendix D of 40 CFR Part 75, except as provided in N.J.A.C. 7:27C-8.2(a). The owner or operator of a CO2 budget unit that qualifies to use the low mass emissions excepted monitoring methodology in 40 CFR 75.19 or that qualifies to use an alternative monitoring system under Subpart E of 40 CFR Part 75 shall comply with the initial certification and recertification procedures set forth at N.J.A.C. 7:27C-8.2(q) or (r), respectively. [N.J.A.C. 7:27C- 8.2(c)]	None.	None.	Submit notification: Upon occurrence of event. The CO2 authorized account representative shall submit to the Department, EPA Region 2 office and the Administrator a written notice of the dates of certification in accordance with N.J.A.C. 7:27C-8.4. [N.J.A.C. 7:27C-8.2(h)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	CO2: . The owner or operator shall recertify a monitoring system in accordance in 40 CFR 75.20(b) whenever the owner or operator makes the replacement, modification, or changes described in N.J.A.C. 7:27C-8.2(f). [N.J.A.C. 7:27C-8.2(f)] A provisionally certified monitor may be used under the CO2 Budget Trading Program for a period not to exceed 120 days after the Department receives the complete certification application for the monitoring system, or component thereof, under N.J.A.C.7:27C-8.2(h). [N.J.A.C. 7:27C-8.2(j)] Whenever any monitoring system fails to meet the quality assurance and quality control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D or Appendix C, of 40 CFR Part 75. [N.J.A.C. 7:27C- 8.3(a)]	Other: The owner or operator of a CO2 budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62, either electronically or hardcopy. If electronic, no later than 21 days prior to the initial certification tests; at the time of each certification or recertification application submission; and (prior to or concurrent with) the submittal of the electronic quarterly report for a reporting quarter where an update of the electronic monitoring plan information is required. If hardcopy, no later than 21 days prior to the initial certification test; with any certification or recertification application, if a hardcopy monitoring plan change is associated with the certification or recertification event; and within 30 days of any other event with which a hardcopy monitoring plan change is associated, pursuant to 40 CFR 75.53(b). Electronic submittal of all monitoring plan information, including hardcopy portions, is permissible provided that a paper copy of the hardcopy portions can be furnished upon request.[N.J.A.C. 7:27C- 8.5(b)].	None.	Submit documentation of compliance: As per the approved schedule. The CO2 authorized account representative shall submit a certification or recertification application to the Department for each monitoring system within 45 days after completing all CO2 monitoring system initial certification or recertification tests required under N.J.A.C. 7:27C-8.2 including the information required under 40 CFR 75.53(g) and (h) and 75.63. . [N.J.A.C. 7:27C- 8.2(e)]
12	The CO2 authorized account representative of a CO2 budget unit that co-fires eligible biomass as a compliance mechanism under N.J.A.C. 7:27C shall report the information as provided in N.J.A.C. 7:27C-8.7 to the Department for each calendar quarter. [N.J.A.C. 7:27C- 8.7(a)]	None.	None.	Submit a report: 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). [N.J.A.C. 7:27C-8.7]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Net electric output and net thermal output. An Output Monitoring Plan is only required for a CO2 budget unit that does not participate in a wholesale electricity market administered by PJM. [N.J.A.C. 7:27C-8.8(a)]	Other: The output monitoring plan shall include: - a diagram of the electrical and/or steam system, - a description of each output monitoring system, - a detailed description of all quality assurance and quality control activities, and - documentation supporting any output value(s) to be used as a missing data value should there be periods of invalid output data. [N.J.A.C. 7:27C-8.8(g)] Ongoing quality assurance and quality control (QA/QC) activities shall be performed in order to maintain the output system in accordance with N.J.A.C. 7:27C-8.8(i).[N.J.A.C. 7:27C- 8.8].	Other: The owner or operator of a CO2 budget source shall retain data used to monitor, determine, or calculate net electrical output and net thermal output for 10 years.[N.J.A.C. 7:27C-8.8(j)].	Submit a report: Annually. The CO2 authorized account representative shall submit annual output reports electronically to the Department, pursuant to N.J.A.C. 7:27C-8.8(b) through (j), by the March 1 following the immediately preceding calendar year. These reports shall also be submitted, upon Department request, in hardcopy. The annual output report shall include unit level megawatt-hours and all useful steam output; and shall include a certification from the CO2 authorized account representative pursuant to N.J.A.C. 7:27C-8.8(k). [N.J.A.C. 7:27C-8.8(a)] and. [N.J.A.C. 7:27C- 8.8(k)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Subject Item: **CD19 Water Injection on Unit No. 12, Module 121, CD20 Water Injection on Unit No. 12, Module 122, CD21 Water Injection on Unit No. 12, Module 123, CD22 Water Injection on Unit No. 12, Module 124**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	[Water Injection: CD19, CD20, CD21, CD22.] The permittee shall operate water injection during all periods that each of the turbines are operating, except the start-up, shutdown, fuel transfer, or mechanical safety testing. [N.J.A.C. 7:27-22.16(e)]	Monitored by hour/time monitor continuously. The permittee shall continuously record the time and duration of the operation of the gas turbine and water injection system. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The permittee shall continuously record the time and duration of the operation of the gas turbine and water injection system. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart GG 40 CFR 72 - Acid Rain 40 CFR 97 - CSAPR [None]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	STACK TESTING SUMMARY: 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 for natural gas firing as specified in the compliance plan for OS Summary, OS1, OS3, OS5 and OS7. In addition, permittee shall conduct a stack test using a protocol approved to demonstrate compliance with the NOx, CO, VOC, TSP, and PM10 emission limits for ultra low sulfur distillate (ULSD) firing as specified in the compliance plan for OS Summary, OS2, OS4, OS6, and OS8. Stack tests shall be conducted on oil within 180 calendar days after a turbine (E36, E37, E38 or E39) reaches 200 operating hours on ULSD, in a given calendar year for the first time during the 5 year permit term. Each turbine shall be tested a maximum of once per permit term. 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). The facility may propose, in the stack test protocol the use of the CEMS data to satisfy the stack testing requirements for CO and NOx with EMS approval. In order for EMS to approve using CEMS data at the time of stack test, the CEMS must be certified and be in compliance with all daily, quarterly and quality assurance requirements. The CEMS shall monitor and record emissions in the units identical to those required by applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst conditions as described for stack testing requirements.[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: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit for stack emission testing on natural gas. The stack test protocol for stack emission testing when a turbine combusts distillate fuel oil shall be submitted within 30 calendar days after a turbine reaches 200 operating hours on ULSD in a given calendar year. 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 609-984-3443 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	CEMS REQUIREMENTS SUMMARY: Operate Continuous Monitoring Systems (CEMS) to demonstrate compliance with CO, NOx , and O2 as specified in the compliance plan for U1 OS Summary, and U15 OS1 through U15 OS40. Continuous parametric monitors and continuous parametric data recorders shall be operated to demonstrate compliance with monitoring parameters as specified in the compliance plan for U1 OS Summary, and U5 OS1 through U15 OS8. [N.J.A.C. 7:27-22.16(a)]	Monitored by continuous emission monitoring system continuously. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]	None.
4	Compliance shall be determined by continuous emission monitoring of NOx, CO and O2. To demonstrate compliance with SO2 emission limits comply with 40 CFR 75, Appendix D [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by continuous emission monitoring system continuously. Comply with 40 CFR 75 Appendix D for SO2 emissions.[N.J.A.C. 7:27-22.16(a)].	Other: Recordkeeping by strip chart or round chart and data acquisition (DAS) system / electronic data storage continuously. Comply with 40 CFR 75 Appendix D for SO2 emissions.[N.J.A.C. 7:27-22.16(o)].	None.
5	The Permittee shall request approval from the Department's Emission Measurement Section (EMS) to allow continued use of the existing CEMS when a change to the units of measurement is made to a permit limit. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records of the Permittee's written request to EMS, and the response from EMS . [N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: Upon occurrence of event submit a written request to the EMS within 30 days from the date of the approved operating permit to determine whether a full CEMS recertification is required, whether the change can follow the procedures for data recording and storage equipment upgrades found in the Department's Technical Manual 1005 Section IV.B.3(f), or if continued use of the existing CEMS is allowed. [N.J.A.C. 7:27-22]
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	Commencing with the beginning of the first full calendar year after final permit approval (BOP090001) at Unit No. 12 (emission unit U15) and continuing for ten (10) calendar years thereafter, PSEG Fossil shall calculate the actual tons of regulated NSR pollutants including CO, NOx, PM (TSP), PM-10, SO2 and VOC from Unit No. 12 (U15) in each calendar year period. This condition expires after 12/31/2020. [40 CFR 52.21(r)(6)(iii)], & [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by calculations each calendar year.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system annually (each calendar year). Records shall be maintained on site for a period of ten (10) years after the date of each record and made available to representatives of the Department and USEPA Region II upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: As per the approved schedule as follows: If the future actual annual emissions, in tons per year, exceed the baseline actual emissions of the PSD de minimis level for that regulated NSR pollutant, and if such emissions differ from the preconstruction projections detailed in the aforementioned submissions, PSEG Fossil must submit a report to EPA Region 2 within 60 days after the end of such year. The information to be contained in that report is also delineated in 40 CFR 52.21(r)(6)(v). [40 CFR 52.21(r)(6)] &. [N.J.A.C. 7:27-22.16(o)]
8	Carbon monoxide <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9]	Carbon monoxide: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)2]	Carbon monoxide: Recordkeeping by manual logging of parameter or storing data in a computer data system prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	NOx (Total) <= 1 lb/MW-hr NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
10	VOC (Total) <= 50 ppmvd @ 15% O2. RACT emission limit applies during all operation. [N.J.A.C. 7:27-16.9(b)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]

U15 Four simple-cycle stationary turbine used for electric power generation

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall ensure that the adjustment of the combustion process of the turbines is carried out according to the manufacturer's recommended procedures and maintenance schedule. [N.J.A.C. 7:27-19.5(e)] and [N.J.A.C. 7:27-19.16(g)]	Monitored by continuous emission monitoring system upon performing combustion adjustment or periodic emissions monitoring. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment. The permittee shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record 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 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.
12	The Permittee of the adjusted equipment or source operation 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(e)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	An exceedance of an emission limit that occurs during an adjustment of the combustion process under N.J.A.C. 7:27-19.16(g) is not a violation of this subchapter 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 or an applicable certificate issued pursuant to N.J.A.C. 7:27-8. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.
14	The permittee shall submit an Excess Emission Monitoring Performance Report for each turbine to the Department. [N.J.A.C. 7:27-22.16(e)]	None.	None.	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 to the Department. [N.J.A.C. 7:27-22.16(o)]
15	Maximum Gross Heat Input <= 463 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a daily average. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(e)]	None.
16	The permittee shall install, operate and maintain devices to continuously monitor and record the concentration of oxygen in each of the stacks. [N.J.A.C. 7:27-22.16(e)]	Monitored by continuous emission monitor continuously, based on a daily average. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously. [N.J.A.C. 7:27-22.16(e)]	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Maximum Gross Heat Input: Maximum Annual Gross Heat Input from burning natural gas shall be less than or equal to 3.36 E12 BTU per any period of 365 consecutive days for all four turbines combined, based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously based on any consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously The natural gas usage for a given day shall be a total of 24 readings taken once per hour. The daily actual heat input (BTU) shall be calculated as follows: Cu. Ft. of Natural Gas Usage/day X HHV of Natural Gas in BTU/Cu. Ft. The Annual Gross Heat Input in MMBtu for any period of 365 consecutive days is computed by adding the gross heat input on a given day to the gross heat input for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
18	Maximum Gross Heat Input: Maximum Annual Gross Heat Input from burning natural gas shall be less than or equal to 2.60 E12 BTU per calendar year for all four turbines combined [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on one calendar year. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
19	Maximum Gross Heat Input: Maximum Annual Gross Heat Input from burning ULSD shall be less than or equal to 5.37E11 BTU per any period of 365 consecutive days for all four turbines combined, based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously based on any consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously The ULSD usage for a given day shall be a total of 24 readings taken once per hour. The daily actual heat input (BTU) shall be calculated as follows: Gallons of ULSD Usage/day X HHV of ULSD in BTU/gallon. The Annual Gross Heat Input in MMBtu for any period of 365 consecutive days is computed by adding the gross heat input on a given day to the gross heat input for the preceding 364 days. [N.J.A.C. 7:27-22.16(o)]	None.
20	TSP <= 14.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U15 Four simple-cycle stationary turbine used for electric power generation

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	PM-10 (Total) <= 14.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	PM-2.5 (Total) <= 14.9 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	VOC (Total) <= 11.7 tons/yr. These VOC emissions include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	NOx (Total) <= 118.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on one calendar year. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage annually. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	None.
25	NOx (Total) <= 39 tons/yr for each turbine module. This NOx cap is to avoid federal PSD applicability pursuant to 40 CFR 52.21. However the total NOx from all four turbine modules of U15 Unit No. 12 shall remain less than or equal to 118.1 tons per year as per the requirement elsewhere in U15, OS Summary. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on one calendar year. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage annually. PSEG shall also record an annual demonstration showing that the exchange did not result in a 'significant emissions increase' and a 'significant net emissions increase' of each of the criteria pollutants under the PSD regulations (40 CFR 52.21). Records shall be kept on site for a period of no less than 5 years, and made readily available to the Department on request. [N.J.A.C. 7:27-22.16(o)]	None.
26	CO <= 88.5 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar year. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage annually. [N.J.A.C. 7:27-22.16(e)]	None.
27	SO2 <= 3.9 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
28	1-Methylnaphthalene <= 0.00234 tons/yr Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) (HHV) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially . [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.
29	Acetaldehyde <= 0.052 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Acetaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acetaldehyde: 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.
30	Acrolein <= 0.00832 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Acrolein: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acrolein: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Arsenic Emissions <= 0.00299 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Arsenic Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: 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.
32	Benzene <= 0.0246 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Benzene: 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.
33	Beryllium Emissions <= 0.0000832 tons/yr Maximum emission rate for 4 combustion turbines based on: ULSD Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Beryllium Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Beryllium Emissions: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	Butadiene (1,3-) <= 0.00465 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Butadiene (1,3-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Butadiene (1,3-): 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.
35	Cadmium compounds <= 0.00129 tons/yr Maximum emission rate for 4 combustion turbines based on: ULSD Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cadmium compounds: 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.
36	Dioxins/Furans (Total) <= 3.25E-7 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Dioxins/Furans (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (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.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	Ethylbenzene <= 0.0416 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Ethylbenzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Ethylbenzene: 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.
38	Formaldehyde <= 0.923 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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.
39	Pb <= 0.00418 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Pb: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Pb: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	Methane <= 2 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from 40 CFR 98, Subpart C, Tables C-1 and C-2. [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
41	Manganese compounds <= 0.219 tons/yr.Maximum emission rate for 4 combustion turbines based on: ULSD Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Manganese compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Manganese compounds: 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.
42	Naphthalene <= 0.0105 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Naphthalene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Naphthalene: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	Nickel Emissions <= 0.00124 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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.
44	Nitrous oxide <= 0.33 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from 40 CFR 98, Subpart C, Tables C-1 and C-2. [N.J.A.C. 7:27-22.16(a)]	Nitrous oxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nitrous oxide: 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.
45	Polycyclic organic matter <= 0.0125 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Polycyclic organic matter: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polycyclic organic matter: 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.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	Polynuclear aromatic hydrocarbons (PAHs) <= 0.0125 tons/yr. Maximum emission rate for 4 combustion turbines based on: ULSD emission factor (lb/MMBtu) and Maximum Annual Heat Input from ULSD (MMBTU/yr) ; and Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas after oil (MMBTU/yr) for all four turbines. Emission factors are from AP 42, Volume I, Fifth Edition, Supplement F, April 2000, Tables 3.1-2a, 3.1-3, 3.1-4, and 3.1-5. [N.J.A.C. 7:27-22.16(a)]	Polynuclear aromatic hydrocarbons (PAHs): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polynuclear aromatic hydrocarbons (PAHs): 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.
47	Propylene oxide <= 0.0377 tons/yr. Maximum emission rate for 4 combustion turbines based on: Natural Gas Emission Factor (lb/MMBtu) and Maximum Annual Heat Input from Natural Gas (MMBTU/yr) for all four turbines. Emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Propylene oxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Propylene oxide: 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.
48	The owner or operator shall comply, as applicable, with the standards required in 40 CFR, 60 Subpart A. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Comply with the requirement: As per the approved schedule The owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
49	Fuel limited to natural gas and/or ultra low sulfur distillate oil (ULSD). [N.J.A.C. 7:27-22.16(o)]	None.	Recordkeeping by invoices / bills of lading per delivery. [N.J.A.C. 7:27-22.16(a)]	None.
50	Acid Rain:Comply with the requirements contained in the attached Acid Rain Permit. [40 CFR 72]	Other: Acid Rain:Comply with the requirements contained in the attached Acid Rain Permit.[40 CFR 72].	Other: Acid Rain:Comply with the requirements contained in the attached Acid Rain Permit.[40 CFR 72].	Other (provide description): As per the approved schedule Acid Rain:Comply with the requirements contained in the attached Acid Rain Permit. [40 CFR 72]

U15 Four simple-cycle stationary turbine used for electric power generation

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	CSAPR: The permittee shall comply with all the attached requirements of Cross-State Air Pollution Rule (CSAPR) for the CSAPR NOx Annual Trading Program, CSAPR NOx Ozone Season Trading Program, and CSAPR SO2 Trading Program applicable to this affected unit. [40 CFR 97]	Other: As per the CSAPR attachment[40 CFR 97].	Other: As per the CSAPR attachment[40 CFR 97].	. As per the CSAPR attachment Other (provide description): Other. [40 CFR 97]
52	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)]
53	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)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
54	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 40 CFR 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)]
55	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)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
56	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)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
57	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.
58	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
59	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
60	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.
61	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
62	The NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in the applicable standard. [40 CFR 60.11(c)]	None.	None.	None.
63	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
64	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.
65	All continuous emission monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests specified under 40 CFR Part 60.8. The owner or operator shall follow manufacturer's written recommendations for installation, operation and calibration of the device. [40 CFR 60.13(b)]	During any performance test required under 40 CFR Part 60.8 or within 30 days thereafter, the owner or operator shall conduct a performance evaluation of the continuous emission monitoring system in accordance with applicable performance specification in Appendix B of 40 CFR Part 60. Monitored by other method (provide description) upon occurrence of event. [40 CFR 60.13(c)]	None.	Within 60 days of completion of the performance test, furnish the Administrator two or, upon request, more copies of the results of the performance evaluation. Submit a report: As per the approved schedule. [40 CFR 60.13(c)(2)]
66	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.
67	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.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
68	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.
69	The owner or operator of all continuous monitoring systems for measuring opacity shall reduce all data to 6-minute averages which shall be calculated from 36 or more data points equally spaced over each 6-minute period. Six -minute period is defined in 40 CFR 60.2 as any one of the 10 equal parts of a one-hour period. 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. For owners and operators complying with the requirements in 40 CFR 60.7(f)(1) or (2), data averages must include any data recorded during periods of monitor breakdown or malfunction. [40 CFR 60.13(h)(1)]	None.	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None.
70	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.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
71	Compliance with all applicable standards must be achieved within 180 days of completion of any physical or operational change subject to the control measures specified in 40 CFR Part 60.14(a). [40 CFR 60.14(g)]	None.	None.	None.
72	The owner or operator shall notify the Administrator of the proposed replacement of components, upon reconstruction as defined at 40 CFR 60.15. [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
73	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
74	NOx (Total) <= 109 ppmvd @ 15% O2. [40 CFR 60.332(a)(1)]	NOx (Total): Monitored by stack emission testing once initially, based on any 60 minute period. Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.335. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Performance testing is not required for any emergency fuel as defined in 40 CFR 60.331. [40 CFR 60.335]	None.	None.
75	No owner or operator shall cause to be discharged into the atmosphere, any gases which contain sulfur dioxide in excess of SO2 <= 0.015 % by volume at 15% O2, dry basis. [40 CFR 60.333(a)]	SO2: Monitored by stack emission testing once initially, based on any 60 minute period. Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.335 [40 CFR 60.335]	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
76	Sulfur Content in Fuel <= 0.8 % by weight. No owner or operator subject to the provisions of this subpart shall burn any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [40 CFR 60.333(b)]	Other: Test methods and procedures shall be consistent with the requirements of 40 CFR Part 60.334(h) and 60.335. A minimum of three fuel samples shall be collected during the performance test. [40 CFR 60.335].	None.	None.
77	The owner or operator may, as alternative to operating the continuous monitoring system described in 40 CFR 60.334(a), install, certify, maintain operate, and quality-assure a continuous monitoring system (CEMS) consisting of NOx and O2 monitors. As an alternative, a CO2 monitor may be used to adjust the measured NOx concentrations. Each CEMS must be installed and certified according to PS 2 and 3 of 40 CFR Part 60 Appendix B. If the owner or operator has installed a NOx CEMS to meet the requirements 40 CFR Part 75 and is continuing to meet the ongoing requirements of 40 CFR Part 75, the CEMS may be used to meet the requirements of this section. If CEMS in conformance with 40 CFR Part 75 is used, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report. [40 CFR 60.334(b)]	Monitored by continuous emission monitoring system continuously. [40 CFR 60.334]	None.	None.
78	The owner or operator of a turbine that does not use steam or water injection may, for purposes of determining excess emissions, use a CEMS that meets the requirements of 40 CFR 60.334(b), or use an alternative procedure of continuously monitoring compliance with the applicable NOx limit if such procedure was previously approved by the Administrator or local permitting authority. [40 CFR 60.334(c)]	Monitored by other method (provide description) continuously. [40 CFR 60.334]	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
79	The owner or operator of any new turbine that uses water or steam injection to control NOx emissions may elect to use either the continuous water or steam to fuel monitoring as described in 40 CFR 60.334(a) or may use a NOx CEMS installed, certified, maintained, operated, and quality-assured as described in 40 CFR 60.334(b). [40 CFR 60.334(d)]	Monitored by other method (provide description) continuously. [40 CFR 60.334]	None.	None.
80	The owner or operator of any new turbine that does not use water or steam injection may elect to use either a NOx CEMS installed, certified, maintained, operated, and quality-assured as described in 40 CFR 60.334(b) or may instead perform parameter monitoring as described in 40 CFR 60.334(f). [40 CFR 60.334(e)]	Monitored by other method (provide description) continuously. [40 CFR 60.334]	None.	None.
81	The owner or operator of a turbine on which the steam or water to fuel ratio or other parameters are being continuously monitored shall develop and keep on -site a parameter monitoring plan which explains the procedure used to document proper operation of the NOx emission controls. [40 CFR 60.334(g)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. The parameter monitoring plan shall include information required by 40 CFR 60.334(g). [40 CFR 60.334(g)]	None.
82	The owner or operator shall monitor the total sulfur content of the fuel being fired in the turbine if the fuel fired in the turbine does not meet the definition of natural gas as provided in 40 CFR 60.331(u). The owner or operator shall use the methods specified in 40 CFR 60.335(b)10. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(1)]	Monitored by grab sampling at the approved frequency. Sulfur content values shall be determined on each occasion that fuel is transferred to the storage tank from any other source. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]	Recordkeeping by certified lab analysis results at the approved frequency. The owner or operator shall record the results of each analysis for fuel sulfur content. [40 CFR 60.334(i)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
83	The owner or operator shall monitor the total sulfur content of the fuel being fired in the turbine if the fuel fired in the turbine does not meet the definition of natural gas as provided in 40 CFR 60.331(u). The owner or operator shall use the methods specified in 40 CFR 60.335(b)10. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(1)]	Monitored by grab sampling daily. The sulfur content value of the fuel shall be determined and recorded once per unit operating day, or as specified in 40 CFR 60.334(i)(3)(i) and (ii), or as specified in a custom schedule approved by the Administrator. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]	Recordkeeping by certified lab analysis results daily. The owner or operator shall record the results of each analysis for fuel sulfur content. [40 CFR 60.334(i)]	None.
84	The owner or operator shall monitor nitrogen content of the fuel being fired in the turbine if the owner or operator claims an allowance for fuel bound nitrogen. The owner or operator shall use the methods specified in 40 CFR 60.335(b)9 or an approved alternative. The analyses may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. [40 CFR 60.334(h)(2)]	Monitored by other method (provide description) daily. Any applicable nitrogen content value of the gaseous fuel or fuel oil shall be determined and recorded once per unit operating day. If a custom fuel monitoring schedule has previously been approved, the owner or operator may continue monitoring on this schedule without submitting a special petition to the Administrator. [40 CFR 60.334(i)]	Recordkeeping by certified lab analysis results daily. The owner or operator shall record the results of each analysis for fuel nitrogen content. [40 CFR 60.334(i)]	None.
85	The owner or operator may elect not to monitor nitrogen content of the fuel being fired in the turbine if the owner or operator does not claim an allowance for fuel bound nitrogen. [40 CFR 60.334(h)(2)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator does not claim an allowance for fuel bound nitrogen. The allowable NOx emission concentration included in this permit was calculated in accordance with 40 CFR 60.332(a). In calculations, NOx emission allowance (F-value) of zero was accepted. [40 CFR 60.334(h)(2)]
86	The owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u) regardless of whether an existing custom schedule approved by the Administrator. [40 CFR 60.334(h)(3)]	None.	None.	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.334(h)(3)(i) or (ii) showing the maximum total sulfur content. [40 CFR 60.334(h)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
87	The owner or operator shall submit reports of excess emissions and monitor downtime for Nitrogen oxides. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(1)(i) or (iii) as follows: (i) for turbines using water or steam to fuel ratio monitoring - any unit operating hour for which the average steam or water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable steam or water to fuel ratio determined by the performance test (40 CFR 60.8) to demonstrate compliance with the NOx concentration limit specified in 60.332; Any unit operating hour in which no water or steam is injected shall also be considered an excess emissions; or (iii) for turbines using NOx and diluent CEMS - any unit operating hour during which the 4-hour rolling average NOx concentration exceeds the applicable NOx emission limit specified in 60.332. [40 CFR 60.334(j)(1)]	None.	None.	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. Each report shall include the average steam or water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, as applicable and, (if applicable) the nitrogen content of the fuel during each excess emission. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(1)]
88	The owner or operator shall submit reports of excess emissions and monitor downtime for Nitrogen content in fuel. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(1)(ii)(A) and (B) as follows: any period during which the fuel bound nitrogen of the fuel is greater than the maximum nitrogen content allowed using the performance test required by 40 CFR 60.8. [40 CFR 60.334(j)(1)(ii)]	None.	None.	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. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(1)(ii)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
89	The owner or operator shall submit reports of excess emissions and monitor downtime for Sulfur dioxide. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60.334(j)(2). [40 CFR 60.334(j)(2)]	None.	None.	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. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(2)]
90	The owner or operator shall report to the Administrator each period during which an exemption provided in 40 CFR Part 60.332(f) is in effect. [40 CFR 60.334(j)(3)]	None.	None.	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 for each period, the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(3)]
91	The owner or operator shall include in the report required by 40 CFR Part 60.7(c), each period during which an exemption provided in 40 CFR Part 60.332(k) is in effect. [40 CFR 60.334(j)(4)]	None.	None.	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 for each period, the type, reasons, and duration of the firing of the emergency fuel. Pursuant to 40 CFR 60.334(j)5, all reports shall be postmarked by the 30th day following the end of each 6-month period. [40 CFR 60.334(j)(4)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS1 Unit No. 12 Module 121**
Natural Gas Firing, OS3 Unit No. 12 Module 122
Natural Gas Firing, OS5 Unit No. 12 Module 123
Natural Gas Firing, OS7 Unit No. 12 Module 124
Natural Gas Firing

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Smoke <= 20 % opacity, exclusive of visible condensed water vapor, for a period of more than 10 seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 46.3 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9]	None.	None.	None.
4	NOx (Total) <= 1 lb/MW-hr NOx RACT emission limit applies during all periods of natural gas combustion. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
5	TSP <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 4 lb/hr. These VOC emissions include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 10 ppmvd @ 15% O2. These VOC emissions include Formaldehyde emissions. [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	CO <= 68 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. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
11	CO <= 70 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
12	CO <= 70 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(o)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
13	SO2 <= 1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	NOx (Total) <= 42 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
15	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	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(e)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
17	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
18	NOx (Total) <= 25 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	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(a)]
19	1-Methylnaphthalene <= 8.33E-4 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially. [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.
20	Acetaldehyde <= 0.0185 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Acetaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acetaldehyde: 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.
21	Acrolein <= 0.00296 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Acrolein: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acrolein: 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
22	Arsenic Emissions <= 0.0000234 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from EPRI, Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Arsenic Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: 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.
23	Benzene <= 0.00556 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Benzene: 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.
24	Butadiene (1,3-) <= 0.000199 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Butadiene (1,3-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Butadiene (1,3-): 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.
25	Methane <= 1.02 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
26	Dioxins/Furans (Total) <= 1.16E-7 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor EPRI, Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Dioxins/Furans (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (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.
27	Ethylbenzene <= 0.0148 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Ethylbenzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	None.	None.
28	Formaldehyde <= 0.329 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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.

U15 Four simple-cycle stationary turbine used for electric power generation
OS1, OS3, OS5, OS7

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Lead compounds <= 0.00024 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Lead compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Lead compounds: 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.
30	Manganese compounds <= 0.00367 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Manganese compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	None.	None.
31	Naphthalene <= 0.000602 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Naphthalene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Naphthalene: 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.
32	Nitrous oxide <= 0.102 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Nitrous oxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nitrous oxide: 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.
33	Polycyclic organic matter <= 0.00102 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Polycyclic organic matter: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polycyclic organic matter: 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.
34	Polynuclear aromatic hydrocarbons (PAHs) <= 0.00102 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Polynuclear aromatic hydrocarbons (PAHs): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polynuclear aromatic hydrocarbons (PAHs): 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
35	Propylene oxide <= 0.0134 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-3, (Dated 4/2000), Natural Gas Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Propylene oxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Propylene oxide: 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

Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS2 Unit No. 12 Module 121**
Distillate Oil Firing, OS4 Unit No. 12 Module 122
Distillate Oil Firing, OS6 Unit No. 12 Module 123
Distillate Oil Firing, OS8 Unit No. 12 Module 124
Distillate Oil Firing

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Smoke emissions from stationary turbine engines no greater than 20% opacity, exclusive of visible condensed water vapor, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	Opacity: Monitored by visual determination at the approved frequency, based on an instantaneous determination. Periodic Visual observations. Once every 100 hours of oil firing operation. Visual observations shall be conducted by certified observer every 100 hours of oil firing operation using NJ Test Method 2. Monitoring and recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of oil firing operation, the reason for monitoring at the lesser frequency shall also be recorded. Installation and operation of continuous opacity monitor (COM) would be required if distillate oil operation exceeds 500 hours in calendar year. [N.J.A.C. 7:27-22.16(o)]	Other: Manual logging of Visual Observations in a permanently bound logbook or readily accessible computer memory. Once every 100 hours of oil firing operation. Recordkeeping may occur at a lesser frequency if circumstances prohibit conducting a visual determination (e.g., nighttime operation, weather conditions, unplanned dispatching, etc.) within the 100 hour timeframe. However, in no case shall the interval between visual determinations recording exceed 125 hours of oil firing operation. If the visual observation occurs at a lesser frequency than every 100 hours of operation, the reason for monitoring at the lesser frequency shall also be recorded. If COM is required and installed, the recordkeeping shall be done continuously by strip chart, round chart or data acquisition system (DAS)/electronic data storage.[N.J.A.C. 7:27-22.16(o)].	CEMS/COMS - Submit equipment protocol, submit a PST protocol, conduct PST and submit results: As per the approved schedule. If a COM is required, submittal of a monitoring protocol, pursuant to N.J.A.C. 7:27-22.18(a), to the Bureau of Technical Sevices would be required within 90 days of exceeding 500 hour threshold. Installation and operation of the COM would be required within 180 days of exceeding the 500 hour threshold. Refer to N.J.A.C. 7:27-22.18 & 19 for other applicable requirements. [N.J.A.C. 7:27-22.16(o)]
2	TSP <= 46.3 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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 fuel certification receipts per delivery showing fuel sulfur content. [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	VOC (Total) <= 50 ppm @ 15% O2. [N.J.A.C. 7:27-16.9]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests. (See Applicable Stack Testing Requirement for U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date. (See Applicable Stack Testing Requirement for U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Applicable Stack Testing Requirement for U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
5	NOx (Total) <= 1 lb/MW-hr. NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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	NOx (Total) <= 1.6 lb/MW-hr. NOx RACT emission limit applies during all periods of fuel oil combustion. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	Obtain approval: Within 60 days from the date of the approved permit , BOP130002, from Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 to use existing CEMS for measuring NOx emissions in lb./MW-hr. [N.J.A.C. 7:27-22.16(o)]
7	TSP <= 14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	PM-10 (Total) <= 14 lb/hr. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]

U15 Four simple-cycle stationary turbine used for electric power generation
OS2, OS4, OS6, OS8

New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-2.5 (Total) <= 14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Carbon monoxide <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Monitored by continuous emission monitoring system continuously, based on a calendar day (in ozone season) or 30 day rolling (at other times) average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	Carbon monoxide: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(a)]	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(a)]
11	VOC (Total) <= 6 lb/hr. These VOC emissions include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
12	VOC (Total) <= 10 ppmvd @ 15% O2. These VOC emissions include Formaldehyde emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [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 Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
13	CO <= 16 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
14	CO <= 15 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	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(e)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	NOx (Total) <= 73 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Recordkeeping by stack test results at the approved frequency. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. (See Stack Testing Summary at U15 OS Summary). [N.J.A.C. 7:27-22.16(e)]
16	NOx (Total) <= 42 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(a)]	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(e)]
17	SO2 <= 0.704 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	1-Methylnaphthalene <= 0.000838 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor EPRI, Oil Fired Turbines [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially. [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.
19	Arsenic Emissions <= 0.00509 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Arsenic Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16]	None.
20	Benzene <= 0.0255 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Benzene: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Beryllium Emissions <= 0.000144 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Beryllium Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Beryllium Emissions: 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.
22	Butadiene (1,3-) <= 0.00741 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Butadiene (1,3-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Butadiene (1,3-): 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.
23	Cadmium compounds <= 0.00222 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cadmium compounds: 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.
24	Formaldehyde <= 0.13 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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.
25	Pb <= 0.00648 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Pb: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Pb: 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.
26	Manganese compounds <= 0.366 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Manganese compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Manganese compounds: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Methane <= 3.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
28	Naphthalene <= 0.0162 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Naphthalene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Naphthalene: 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.
29	Nickel Emissions <= 0.00213 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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.
30	Nitrous oxide <= 0.612 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Nitrous oxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nitrous oxide: 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.
31	Polycyclic organic matter <= 0.0185 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Polycyclic organic matter: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polycyclic organic matter: 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.
32	Polynuclear aromatic hydrocarbons (PAHs) <= 0.0185 lb/hr Emission limit based maximum heat input rate (HHV) of the Combustion Turbine, and emission factor from AP 42, 5th Edition, Table 3.1-4 and Table 3.1-5, (Dated 4/2000), Oil Fired Turbines. [N.J.A.C. 7:27-22.16(a)]	Polynuclear aromatic hydrocarbons (PAHs): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Polynuclear aromatic hydrocarbons (PAHs): 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.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS9 Unit No.12 Module 121-Startup-N Gas, OS13 Unit No.12 Module 122-Startup-N Gas, OS17 Unit No.12 Module 123-Startup-N Gas, OS21 Unit No.12 Module 124-Startup-N Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 30 minutes. Startup: The start-up commences with initiation of the combustion of fuel in a combustion turbine and concludes when the turbine reaches a steady state operating load of 60% or higher of the design capacity. [N.J.A.C. 7:27-22.16(a)]	Start-up Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr (net) when combusting natural gas. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS . (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	CO <= 250 ppmvd @ 15% O2 during startup. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
4	VOC (Total) <= 50 ppmvd @ 15% O2 . [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during startup[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 3 lb/hr for Natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during startup on natural gas.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	PM-10 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during startup on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-2.5 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during startup on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
8	SO2 <= 1 lb/hr for Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during startup on natural gas.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS10 Unit No.12 Module 121-Shutdown-N Gas, OS14 Unit No.12 Module 122-Shutdown-N Gas, OS18 Unit No.12 Module 123-Shutdown-N Gas, OS22 Unit No.12 Module 124-Shutdown-N Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Shutdown Period <= 30 minutes. Shutdown: Combustion turbine shut-down is defined as the period of time from the initial lowering of combustion turbine output below 60% of the base load until fuel flow is completely off and combustion has ceased. [N.J.A.C. 7:27-22.16(a)]	Shutdown Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr (net) when combusting natural gas. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	CO <= 250 ppmvd @ 15% O2 when combusting natural gas. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
4	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during shutdown[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 3 lb/hr for Natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during shutdown on natural gas.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	PM-10 (Total) <= 3 lb/hr for Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during shutdown on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-2.5 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during shutdown on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
8	SO2 <= 1 lb/hr for Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during shutdown on natural gas.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS11 Unit No.12 Module 121-Fuel transfer-N Gas, OS15 Unit No.12 Module 122-Fuel Transfer-N Gas, OS19 Unit No.12 Module 123-Fuel Transfer-N Gas, OS23 Unit No.12 Module 124-Fuel Transfer-N Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Fuel transfer period <= 30 minutes. The fuel transfer period commences when the fuel is switched from natural gas to distillate oil [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 data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr (net) when combusting natural gas. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
4	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during fuel transfer[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 3 lb/hr for Natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during fuel tranfer from natural gas to ULSD.[N.J.A.C. 7:27-22.16(o)].	None.
6	PM-10 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during fuel tranfer from natural gas to ULSD.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-2.5 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during fuel tranfer from natural gas to ULSD.[N.J.A.C. 7:27-22.16(o)].	None.
8	SO2 <= 1 lb/hr for Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during fuel tranfer from natural gas to ULSD.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS12 Unit No.12 Module 121-Mechanical Safety Testing-N Gas, OS16 Unit No.12 Module 122-Mechanical Safety Testing-N Gas, OS20 Unit No.12 Module 123-Mechanical Safety Testing-N Gas, OS24 Unit No.12 Module 124-Mechanical Safety Testing-N Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Mechanical Safety Testing<=12 hours per year per turbine (total for natural gas and ULSD) The mechanical safety testing shall be defined as that period of time following mechanical servicing or repair when mechanical safety tests are conducted. [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 data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr (net) when combusting natural gas. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	CO <= 250 ppmvd @ 15% O2 during startup, when combusting natural gas. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
4	VOC (Total) <= 50 ppmvd @ 15% O2 For Natural gas. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during mechanical safety testing on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP <= 3 lb/hr for Natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during mechanical safety testing on natural gas[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	PM-10 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during mechanical safety testing on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-2.5 (Total) <= 3 lb/hr For Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during mechanical safety testing on natural gas[N.J.A.C. 7:27-22.16(o)].	None.
8	SO2 <= 1 lb/hr for Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during mechanical safety testing on natural gas[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS25 Unit No.12 Module 121-Startup-ULSD, OS29 Unit No.12 Module 122-Startup-ULSD, OS33 Unit No.12 Module 123-Startup-ULSD, OS37 Unit No.12 Module 124-Startup-ULSD**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 30 minutes. Startup: The start-up commences with initiation of the combustion of fuel in a combustion turbine and concludes when the turbine reaches a steady state operating load of 60% or higher of the design capacity. [N.J.A.C. 7:27-22.16(a)]	Start-up Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1.6 lb/MW-hr (net) when combusting ULSD. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	NOx (Total) <= 1 lb/MW-hr NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-22.16(o)]	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. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 250 ppmvd @ 15% O2 during startup. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
5	VOC (Total) <= 50 ppmvd @ 15% O2 . [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during startup[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 14 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during startup on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-10 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-12.5 emission limits during startup on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
8	PM-2.5 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during startup on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
9	SO2 <= 0.704 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during startup on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS26 Unit No.12 Module 121-Shutdown-ULSD, OS30 Unit No.12 Module 122-Shutdown-ULSD, OS34 Unit No.12 Module 123-Shutdown-ULSD, OS38 Unit No.12 Module 124-Shutdown-ULSD**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Shutdown Period <= 30 minutes. Shutdown: Combustion turbine shut-down is defined as the period of time from the initial lowering of combustion turbine output below 60% of the base load until fuel flow is completely off and combustion has ceased. [N.J.A.C. 7:27-22.16(a)]	Shutdown Period: Monitored by hour/time monitor continuously. Keep turbine manufacturer's specifications showing the TSP emission limits during shutdown on ULSD. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1.6 lb/MW-hr (net) when combusting ULSD. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	NOx (Total) <= 1 lb/MW-hr. NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 250 ppmvd @ 15% O2 during shutdown. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
5	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during shutdown[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 14 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during shutdown on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-10 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during shutdown on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
8	PM-2.5 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during shutdown on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
9	SO2 <= 0.704 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during shutdown on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS27 Unit No.12 Module 121-Fuel Transfer-ULSD, OS31 Unit No.12 Module 122-Fuel Transfer-ULSD, OS35 Unit No.12 Module 123-Fuel Transfer-ULSD, OS39 Unit No.12 Module 124-Fuel Transfer-ULSD**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Fuel transfer period <= 30 minutes. The fuel transfer period commences when the fuel is switched from distillate oil to natural gas [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 data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr. NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	NOx (Total) <= 1.6 lb/MW-hr (net) when combusting ULSD. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 250 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
5	VOC (Total) <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during fuel transfer[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 14 lb/hr for ULSD to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during fuel transfer from ULSD to natural gas[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-10 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during fuel transfer from ULSD to natural gas[N.J.A.C. 7:27-22.16(o)].	None.
8	PM-2.5 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during fuel transfer from ULSD to natural gas[N.J.A.C. 7:27-22.16(o)].	None.
9	SO2 <= 0.704 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during fuel transfer from ULSD to natural gas[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U15 Four simple-cycle stationary turbine used for electric power generation**

Operating Scenario: **OS28 Unit No.12 Module 121-Mechanical Safety Testing-ULSD, OS32 Unit No.12 Module 122-Mechanical Safety Testing-ULSD, OS36 Unit No.12 Module 123-Mechanical Safety Testing-ULSD, OS40 Unit No.12 Module 124-Mechanical Safety Testing-ULSD**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Mechanical Safety Testing<=12 hours per year per turbine (total for natural gas and ULSD) The mechanical safety testing shall be defined as that period of time following mechanical servicing or repair when mechanical safety tests are conducted. [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 data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	NOx (Total) <= 1 lb/MW-hr. NOx RACT emission limit applies during operation on high electric demand days, regardless of fuel combusted, unless combusting gaseous fuel is not possible due to gas curtailment. [N.J.A.C. 7:27-19.5(g)(2), Table 7] "High electric demand day"or "HEDD" means the day following a day in which the next day forecast load is estimated to have a peak value of 52,000 megawatts or higher as predicted by the PJM Interconnection 0815 update to its Mid Atlantic Region Hour Ending Integrated Forecast Load, available from PJM Interconnection at http://oasis.pjm.com/doc/projload.txt. [N.J.A.C. 7:27-19.5(g)2]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
3	NOx (Total) <= 1.6 lb/MW-hr (net) when combusting ULSD. [N.J.A.C. 7:27-19.5(g)]	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. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-19.15(a)1]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 250 ppmvd @ 15% O2 during startup, when combusting ULSD. [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by continuous emission monitoring system continuously, based on one calendar day. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [N.J.A.C. 7:27-16.23(a)1]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. (See CEMS REQUIREMENTS SUMMARY at U15 OS Summary). [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)]
5	VOC (Total) <= 50 ppmvd @ 15% O2 For ULSD. [N.J.A.C. 7:27-16.9(c)]	None.	Other: Keep turbine manufacturer's specifications showing the VOC emission limits during mechanical safety testing on ULSD[N.J.A.C. 7:27-22.16(o)].	None.
6	TSP <= 14 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the TSP emission limits during mechanical safety testing on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.
7	PM-10 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-10 emission limits during mechanical safety testing on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.
8	PM-2.5 (Total) <= 14 lb/hr For ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the PM-2.5 emission limits during mechanical safety testing on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.
9	SO2 <= 0.704 lb/hr for ULSD. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep turbine manufacturer's specifications showing the SO2 emission limits during mechanical safety testing on ULSD.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: **U16 Blackstart Generator**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart ZZZZ [None]	None.	None.	None.
2	Smoke emissions from stationary internal combustion engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Opacity <= 20 %. [N.J.A.C. 7:27-3.5]	None.	None.	None.
3	Particulate Emissions <= 3.66 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The 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, as recommended in writing by the 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, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 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. [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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). . [N.J.A.C. 7:27-22.16(o)]	Other: 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 monthly hours of operation for emergency use and during power disruption from CRM. 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 and/or CRM 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 shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA.[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
6	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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. 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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time 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 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi)The name and contact information of the operator of the emergency generator at the location. 2. 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 Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of 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)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Hours of Operation <= 50 hr/yr for testing, maintenance and BLACK START OPERATION. The limit on the allowable hours for testing and maintenance in accordance with the documentation from 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.
9	The emergency generator shall only burn ULSD with a sulfur content of 15 ppm or less by weight. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 6.1 MMBTU/hr. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the emergency generator[N.J.A.C. 7:27-22.16(o)].	None.
11	The emergency generator shall be inspected and maintained in accordance with the manufacturer's recommended inspection and maintenance frequency. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
12	NOx (Total) <= 0.74 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	CO <= 0.16 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	VOC (Total) <= 0.06 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	SO2 <= 0.05 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	TSP <= 0.05 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
17	PM-10 (Total) <= 0.05 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
18	PM-2.5 (Total) <= 0.05 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	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 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. 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, per 40 CFR 63.6625(j). The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
20	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]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
21	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
22	At all times the owner or operate 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.
23	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)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
24	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: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	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. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(1)]	None.
26	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U18 Hot Water Heaters No. 1 and 2**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc 40 CFR 63 Subpart DDDDD [None]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 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 the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: Lb/MMBTU = ppmvd * MW * F dry factor * 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/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where 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 upon performing combustion adjustment of 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 test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator of the adjusted equipment or source operation 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: Monitored by 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. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
4	CO <= 9.77 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 9.38 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 2.68 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 2.68 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 2.68 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 4.29 tons/yr. Annual emission limit for both Hot Water Heaters combined. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Arsenic Emissions <= 0.000053 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cadmium compounds <= 0.00029 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cobalt Emissions <= 0.000022 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Dimethylbenz(a)anthracene (7,12-) <= 0.0000042 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.02 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Methane <= 0.59 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
16	The owner or operator shall comply, as applicable, with the standards as required in 40 CFR 60 Subpart A. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Comply with the requirement: As per the approved schedule the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
17	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)]
18	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 the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(1)]
19	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 the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(3)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	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 II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(4)]
21	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 upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	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. [40 CFR 60.7(f)].	None.
23	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.
24	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
26	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)]	None.	None.	None.
27	The owner or operator shall record and maintain the amount of each fuel combusted in the unit each month [40 CFR 60.48(g)(2)]	None.	None.	None.
28	At all times, the permitte 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. 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)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	The permittee must conduct a tune-up of the boiler or process heater annually. Each tune-up must be conducted no more than 13 months after the previous tune-up. For an existing source, the first tune-up is no later than January 31, 2016, and for a new source, no later than 13 months after the initial startup. The tune-ups shall be conducted in accordance with 40 CFR 63.7540(a)(10) as follows: (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection. (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The inspection may be delayed until the next scheduled unit shutdown. (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject. Per 40 CFR 63.7540(a)(13), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. [40 CFR 63.7540(a)(10)]	Monitored by periodic emission monitoring annually. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(10)(v)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The permittee shall maintain on-site and submit, if requested by the Administrator, a report containing the following information: The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; A description of any corrective actions taken as a part of the tune-up; and The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. Per 40 CFR 63.10(b)(1), the files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.7540(a)(10)(vi)]	Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows: - A description including identification of which subcategories the unit is in, the design heat input capacity, a description of the add-on controls, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined to be a non-waste under paragraph 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration, and - The following certification(s) of compliance, as applicable, and signed by a responsible official: “This facility completed the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi).” “This facility has had an energy assessment performed according to 40 CFR 63.7530(e). Except for units that burn only natural gas or refinery gas, or units that qualify for a statutory exemption: “No secondary materials that are solid waste were combusted in any affected unit.” [40 CFR 63.7545(e)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Submit a first annual, biennial, or 5-year, as applicable, compliance report no later than January 31 following the 1, 2 or 5 year period, as applicable, after January 31, 2016. Each subsequent compliance report must be submitted no later than January 31 following the end of the annual, biennial or 5-year, as applicable, reporting period. Per 40 CFR 63.7550(c)(1), the report must contain the following information: (1) Company and Facility name and address. (2) Process unit information, emissions limitations, and operating parameter limitations (3) Date of report and beginning and ending dates of the reporting period. (4) The total operating time during the reporting period for limited use boiler or process heater. (5) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a biennial or 5-year tune-up . Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. (6) Statement by a responsible official with that official name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)]	Submit a report: As per the approved schedule electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX, www.epa.gov/cdx). The permittee must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. However, if the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due the permittee must submit the report to the EPA Administrator Region 2. The permittee must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Submit a first annual, biennial, or 5-year, as applicable, compliance report no later than January 31 following the 1, 2 or 5 year period, as applicable, after April 1, 2013. Each subsequent compliance report must be submitted no later than January 31 following the end of the annual, biennial or 5-year, as applicable, reporting period. Per 40 CFR 63.7550(c)(1), the report must contain the following information: (1) Company and Facility name and address. (2) Process unit information, emissions limitations, and operating parameter limitations (3) Date of report and beginning and ending dates of the reporting period. (4) The total operating time during the reporting period for limited use boiler or process heater. (5) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a biennial or 5-year tune-up . Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. (6) Statement by a responsible official with that official name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)]	Submit a report: As per the approved schedule electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX, www.epa.gov/cdx). The permittee must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. However, if the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due the permittee must submit the report to the EPA Administrator Region 2. The permittee must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]
32	The owner or operator of a boiler or process heater shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Table 10 in 40 CFR 63 Subpart DDDDD. [40 CFR 63.7565]	None.	None.	None.

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Emission Unit: **U18 Hot Water Heaters No. 1 and 2**
Operating Scenario: **OS1 Hot Water Heater No. 1, OS2 Hot Water Heater No. 2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Smoke: No person shall cause, suffer, allow or permit visible smoke to be emitted into the outdoor air from the combustion of fuel in any stationary indirect heat exchanger, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 9.27 lb/hr per Hot Water Heater. [N.J.A.C. 7:27- 4.2]	None.	None.	None.
3	Natural Gas Usage <= 262.6 MMft^3/yr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	Maximum Gross Heat Input <= 32.7 MMBTU/hr (HHV) per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the hot water heaters[N.J.A.C. 7:27-22.16(o)].	None.
5	CO <= 1.192 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 1.144 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.33 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.33 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.33 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	VOC (Total) <= 0.523 lb/hr per Hot Water Heater. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	NOx (Total) <= 0.05 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a single fuel burner shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate specified above in accordance with the following schedule, unless the owner or operator is complying with N.J.A.C. 7:27-19.3(f): 1. On and after May 1, 2011, if compliance is achieved without physically modifying the boiler or other indirect heat exchanger; or 2. On and after May 1, 2012, if compliance is achieved by physically modifying the boiler or other indirect heat exchanger. . [N.J.A.C. 7:27-19.7(i)1]	None.	None.	None.
12	CO <= 1.192 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Arsenic Emissions <= 0.0000064 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Cadmium compounds <= 0.0000352 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.0024 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Cobalt Emissions <= 0.00000269 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Dimethylbenz(a)anthracene (7,12-) <= 5.12E-7 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Methane <= 0.072 lb/hr . [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.

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Emission Unit: **U19 Hot Water Heater No. 3**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [None]	None.	None.	None.
2	STACK TESTING SUMMARY 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 U19, OS Summary and U19 OS1. 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 either within 180 days from the date of the approved initial operating permit BOP180001 OR, for new or modified source, within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, 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: 09-01, 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: https://www.epa.gov/chief. 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 609-984-3443 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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 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 the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: Lb/MMBTU = ppmvd * MW * F dry factor * 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/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where 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 upon performing combustion adjustment of 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 test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator of the adjusted equipment or source operation 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: Monitored by 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. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
5	NOx (Total) <= 0.05 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)1]	NOx (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See the STACK TESTING SUMMARY at U19 OS Summary. [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. See the STACK TESTING SUMMARY at U19 OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the STACK TESTING SUMMARY at U19 OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	CO <= 5.47 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and the NJDEP State Of The Art CO emission rate of 0.05 lb/MMBtu for Boilers and Space Heaters 10<= to <= 50 MMBtu/hr. These emisson rate is also based on Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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	NOx (Total) <= 5.11 tons/yr.Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and the NJDEP State Of The Art CO emission rate of 0.035 lb/MMBtu for Boilers and Space Heaters 10<= to <= 50 MMBtu/hr. These emisson rate is also based on Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-10 (Total) <= 1.09 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
9	PM-2.5 (Total) <= 1.09 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (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.
10	TSP <= 1.09 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
11	VOC (Total) <= 0.53 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications of 0.0036 lb/MMBtu for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
12	Arsenic compounds <= 0.000029 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Arsenic compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Arsenic compounds: 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.
13	Cadmium compounds <= 0.00016 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cadmium compounds: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Cobalt compounds <= 0.000012 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Cobalt compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cobalt compounds: 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.
15	Dimethylbenz(a)anthracene (7,12-) <= 0.0000023 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Dimethylbenz(a)anthracene (7,12-): 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	Formaldehyde <= 0.011 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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.
17	Nickel Emissions <= 0.0003 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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.
18	Methane <= 0.32 tons/yr. Emissions based on 8760 hrs/yr, maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from 40 CFR 98, Subpart C, Tables C-1 and C-2. [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
19	The owner or operator shall comply, as applicable, with the standards as required in 40 CFR 60 Subpart A. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Comply with the requirement: As per the approved schedule the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	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)]
21	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 the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(1)]
22	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 the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(3)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	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 II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.7(a)(4)]
24	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 upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	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. [40 CFR 60.7(f)].	None.
26	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.
27	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
29	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)]	None.	None.	None.
30	The owner or operator shall record and maintain the amount of each fuel combusted in the unit each month [40 CFR 60.48(g)(2)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U19 Hot Water Heater No. 3**
Operating Scenario: **OS1 Hot Water Heater No. 3**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Smoke: No person shall cause, suffer, allow or permit visible smoke to be emitted into the outdoor air from the combustion of fuel in any stationary indirect heat exchanger, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 9.33 lb/hr. [N.J.A.C. 7:27- 4.2]	None.	None.	None.
3	Natural Gas Usage <= 286 MMft^3/yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by hour/time monitor continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The annual natural gas usage in MMBtu for any period of 12 consecutive months is computed by adding the gross heat input on a given month to the gross heat input for the preceding 11 month. [N.J.A.C. 7:27-22.16(o)]	None.
4	Maximum Gross Heat Input <= 33.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the hot water heater[N.J.A.C. 7:27-22.16(o)].	None.
5	CO <= 1.25 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and the Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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. See the STACK TESTING SUMMARY at U19 OS Summary. [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. See the STACK TESTING SUMMARY at U19 OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the STACK TESTING SUMMARY at U19 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	NOx (Total) <= 1.17 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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. See the STACK TESTING SUMMARY at U19 OS Summary. [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. See the STACK TESTING SUMMARY at U19 OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the STACK TESTING SUMMARY at U19 OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	PM-10 (Total) <= 0.25 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
8	PM-2.5 (Total) <= 0.25 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (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.
9	TSP <= 0.25 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
10	VOC (Total) <= 0.12 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and Vendor specifications of 0.0036 lb/MMBtu for Cleaver-Brooks Boiler, Model CBLE700-800-125HW. [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.
11	Arsenic compounds <= 0.0000065 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Arsenic compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Arsenic compounds: 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
12	Cadmium compounds <= 0.000036 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Cadmium compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cadmium compounds: 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.
13	Cobalt compounds <= 0.0000027 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Cobalt compounds: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Cobalt compounds: 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.
14	Dimethylbenz(a)anthracene (7,12-) <= 5.23E-7 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Dimethylbenz(a)anthracene (7,12-): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Dimethylbenz(a)anthracene (7,12-): 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.
15	Formaldehyde <= 0.00245 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: 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	Methane <= 0.073 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from 40 CFR 98, Subpart C, Tables C-1 and C-2. [N.J.A.C. 7:27-22.16(a)]	Methane: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Methane: 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.
17	Nickel Emissions <= 0.000069 lb/hr. Emissions based on maximum heat input rate of the hot water heater (MMBtu/hr HHV) and emission factors from AP-42 Chapter 3.4, Table 3.4-3 and Table 3.4-4. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: 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

Emission Unit: **U45 Fire Pump**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart ZZZZ [None]	None.	None.	None.
2	Smoke emissions from stationary internal combustion engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Opacity <= 20 %. [N.J.A.C. 7:27-3.5]	None.	None.	None.
3	Particulate Emissions <= 1.8 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	This 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, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). . [N.J.A.C. 7:27-22.16(o)]	Other: 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 monthly hours of operation for emergency use and during power disruption from CRM. 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 and/or CRM 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
7	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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. 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.
8	The emergency generator shall only burn ULSD with a sulfur content of 15 ppm or less by weight. [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
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(e)]	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.
10	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the fire pump[N.J.A.C. 7:27-22.16(o)].	None.
11	The emergency generator shall be inspected and maintained in accordance with the manufacturer's recommended inspection and maintenance frequency. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
12	VOC (Total) <= 0.05 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 0.634 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.14 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.04 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
18	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 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. 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, per 40 CFR 63.6625(j). The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
19	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]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
20	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.
21	At all times the owner or operate 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	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)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
23	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: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	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 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. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(1)]	None.
25	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U46 Fire Pump**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart ZZZZ [None]	None.	None.	None.
2	Smoke emissions from stationary internal combustion engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. Opacity <= 20 %. [N.J.A.C. 7:27-3.5]	None.	None.	None.
3	Particulate Emissions <= 1.8 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	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)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27- 9.2(b)]	Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27- 9.2(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The 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, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]	Other: 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 monthly hours of operation for emergency use and during power disruption from CRM. 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 and/or CRM 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
7	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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. 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.
8	The emergency generator shall only burn ULSD with a sulfur content of 15 ppm or less by weight. [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
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from 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.
10	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the fire pump[N.J.A.C. 7:27-22.16(o)].	None.
11	The emergency generator shall be inspected and maintained in accordance with the manufacturer's recommended inspection and maintenance frequency. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
12	VOC (Total) <= 0.05 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 0.634 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.14 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.04 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
17	PM-2.5 (Total) <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	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 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. 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, per 40 CFR 63.6625(j). The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
19	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]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
20	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
21	At all times the owner or operate 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.
22	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)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
23	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: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator 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, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	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 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. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(1)]	None.
25	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U101 Burlington Substation Emergency Generator Firing Distillate Oil**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart IIII [None]	None.	None.	None.
2	No person shall cause, suffer, allow or permit smoke the shade or appearance of which is darker than number 1 on the Ringelmann smoke chart or greater than 20 percent opacity, exclusive of visible water vapor, to be emitted into the outdoor air for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 2.92 lb/hr Particulate emissions limit from the combustion of diesel fuel based on the gross heat input rate of 4.86 MMBtu/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [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. 7:27-9.2(b)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The 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, as recommended in writing by the 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, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 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. [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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]	Other: 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 monthly hours of operation for emergency use and during power disruption from CRM. 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 and/or CRM 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 shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] [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
7	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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. 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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1 [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time 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 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi)The name and contact information of the operator of the emergency generator at the location. 2. 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 Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of 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)]	None.
9	NOx (Total) <= 0.391 tons/yr. Annual emission limit based on 100 hours/year of operation. [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	CO <= 0.038 tons/yr. Annual emission limit based on 100 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	VOC (Total) <= 0.009 tons/yr. Annual emission limit based on 100 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.004 tons/yr. Annual emission limit based on 100 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.004 tons/yr. Annual emission limit based on 100 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.004 tons/yr. Annual emission limit based on 100 hours/year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >560 kW must comply with the certification emissions standards in Table 1 of 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NOx <= 4.8 g/bhp-hr (6.4 g/kW-hr) CO <= 2.6 g/bhp-hr (3.5 g/kW-hr) PM <= 0.15 g/bhp-hr (0.2 g/kW-hr) [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.
16	The owner or operator shall comply with the applicable standards as required in the General Provisions of 40 CFR Part 60, Subpart A, except as exempted in Table 8 to Subpart IIII of Part 60. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirement as required in the General Provisions of 40 CFR Part 60, Subpart A, except as exempted in Table 8 to Subpart IIII of Part 60.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in the General Provisions of 40 CFR Part 60, Subpart A, except as exempted in Table 8 to Subpart IIII of Part 60.[40 CFR 60].	Other (provide description): As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal requirements as required in the General Provisions of 40 CFR Part 60, Subpart A, except as exempted in Table 8 to Subpart IIII of Part 60. [40 CFR 60]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. If the manufacturer's emission-related written instructions are not followed, the owner or operator must keep the results of the performance test(s) demonstrating compliance with the applicable emission limits. [40 CFR 60.4206].	None.
18	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [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
19	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. If not complying with manufacturer's emission-related written instructions or emission-related settings, the owner or operator shall must keep a maintenance plan, records of conducted maintenance, and conduct a performance test(s), as prescribed at 40 CFR 60.4211(g). [40 CFR 60.4211].	None.
20	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4204(b) or 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone 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 ICE beyond 100 hours per year. [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
22	Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 60.4211, is prohibited. [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	A new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions does not have to meet the requirements of 40 CFR 63 Subpart ZZZZ except for the initial notification requirements of 40 CFR 63.6645(f). The initial notification requirements of 40 CFR 63.6645(f) has been satisfied. [40 CFR 63.6590(b)(1)(i)]	None.	None.	Submit notification: Once initially Submit an Initial Notification according to 40 CFR 63.6645(f) including the information in 40 CFR 63.9(b)(2)(i) through (v) and a statement that the stationary RICE is not subject to additional requirements of this subpart, in accordance with 40 CFR63.6590(b). Explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). [40 CFR 63.6645(f)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U101 Burlington Substation Emergency Generator Firing Distillate Oil**
Operating Scenario: **OS1 Burlington Substation Emergency Generator Firing Distillate Oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 7.82 lb/hr. Based on 4.85 g/bhp-hr and emergency generator E101 operation under 100% load. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.76 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.081 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.081 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.081 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hours of Operation While Firing Fuel Oil <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. . [N.J.A.C. 7:27-19.2(d)]	Hours of Operation While Firing Fuel Oil: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation While Firing Fuel Oil: 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.
8	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by uel delivery records or annual certification from supplier(s), showing fuel sulfur content, during each delivery.[N.J.A.C. 7:27-22.16(o)].	Sulfur Content in Fuel: Recordkeeping by f lading/delivery records or supplier(s) annual certification showing fuel sulfur content, per delivery.[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
9	Emergency Generator fuel limited to ultra-low sulfur distillate oil [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum Gross Heat Input <= 4.86 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the emergency generator[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Burlington LNG Natural Gas Emergency Generator**
Subject Item: **CD102 Burlington LNG EG 3-Way-Catalyst 1, CD103 Burlington LNG EG 3-Way-Catalyst 2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The air/fuel controller and the 3-way catalyst shall be operated at all times that the engine is operating. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The catalyst array(s) shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated through portable emission monitoring. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Burlington LNG Natural Gas Emergency Generator**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart JJJJ [None]	None.	None.	None.
2	STACK TESTING SUMMARY The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NOx, CO and VOC as specified in the compliance plan for U102 OS Summary. 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 the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: http://www.epa.gov/ttnchie1/ert , unless another format is approved by EMS. 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 609-984-3443 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. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Opacity <= 20 % , exclusive of visible condensed water vapor, for a period of not more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The 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, as recommended in writing by the 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, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 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 [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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (SCF per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in SCF 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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). . [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 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 monthly hours of operation for emergency use and during power disruption from CRM. 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 and/or CRM 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 shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [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
5	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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. 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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1 [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time 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 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi)The name and contact information of the operator of the emergency generator at the location. 2. 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 Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of 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)]	None.
7	NOx (Total) <= 0.25 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
8	CO <= 0.48 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.005 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.005 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.005 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrolein <= 0.0027 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde <= 0.028 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The owner or operator of SI ICE shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. [40 CFR 60]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The owner or operator of the new emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of HP >= 130 (kW >= 100) combusting natural gas or lean burn Liquefied Petroleum Gas (LPG), manufactured on or after January 1, 2009 must comply with the emissions standards in Table 1 to 40 CFR 60 Subpart JJJJ as follows: NOx <= 2.0 g/HP-hr or NOx <= 160 ppmvd at 15% O2, CO <= 4.0 g/HP-hr or CO <= 540 ppmvd at 15% O2, VOC <= 1.0 g/HP-hr or VOC <= 86 ppmvd at 15% O2. [40 CFR 60.4233(e)]	Monitored by stack emission testing at the approved frequency. Demonstrating compliance with the emission standards by conducting an initial performance test and conducting subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. The initial performance test must be completed within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility. In addition, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions in accordance with 40 CFR 60.4243 (b) (2)(ii) and 40 CFR 60.4244 (a) through (f). [40 CFR 60.4245(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards in accordance with 40 CFR 60.4245 (a) and (b). . [40 CFR 60.4545]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
17	For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 60.4243(d), is prohibited. [40 CFR 60.4243(d)]	Monitored by hour/time monitor continuously. [40 CFR 60.4245(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [40 CFR 60.4245(b)]	None.
18	The owner or operator of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60 Subpart JJJJ. [40 CFR 60].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator may not install stationary SI ICE that do not meet the applicable requirements in 40 CFR 60.4233 after the deadline established in 40 CFR 60.4236(a) and (b), except for engines that were removed from one existing location and reinstalled at a new location. [40 CFR 60.4236]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60 Subpart JJJJ. [40 CFR 60].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
20	The owner or operator of a non - certified SI ICE engine with maximum engine power > 500 HP (> 375 kW) must keep a maintenance plan and records of conducted maintenance, and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Additionally, the owner or operator must conduct an initial performance test and conduct subsequent performance testing in accordance with 40 CFR 60.4244 every 8760 hours or 3 years, whichever comes first, as prescribed in 40 CFR 60.4243(b)(2)(ii) to demonstrate compliance. [40 CFR 60.4243(b)(2)(ii)]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60.4243(b)(2). [40 CFR 60.4243].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
21	The owner or operator of a SI ICE natural gas engine may operate an engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owner or operator is required to conduct a performance test to demonstrate compliance with the emission standards in 40 CFR 60.4233. [40 CFR 60.4243(e)]	None.	Other: The owner or operator must keep records of the hours that propane was used. [40 CFR 60.4243(e)].	None.
22	The owner or operator shall maintain and operate the air-to-fuel ratio controllers appropriately to ensure proper operation of the engine and control device to minimize emissions at all times. [40 CFR 60.4243(g)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; (3) for a certified engine, keep documentation from the manufacturer that the engine is certified; (4) if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)].	None.
24	The owner or operator of SI ICE engine with a maximum engine power >= 500 HP (>=375 kW) that have not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231 must submit an initial notification as required in 40 CFR 60.7(a)(1). [40 CFR 60.4245(c)]	None.	None.	Submit notification: Once initially The owner or operator must submit an initial notification as required in 40 CFR 60.7(a)(1) to EPA Region 2 and Regional Enforcement Office of NJDEP. The notification must include the information outlined in 40 CFR 60.4245(c)(1) through (5): (1) Name and address of the owner or operator; (2) The address of the affected source; (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (4) Emission control equipment; and (5) Fuel used. [40 CFR 60.4245(c)]
25	The owner or operator of SI ICE engine shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	Submit an Initial Notification in accordance with 40 CFR 63.6590(b). The notification should include the information in 40 CFR 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion. (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). [40 CFR 63.6640(e)] and [40 CFR 63.6645(f)]	None.	None.	Submit notification: Once initially. The owner or operator shall submit an Initial Notification within 120 calendar days after the source becomes subject to MACT Subpart ZZZZ for major HAP emissions to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866, and copy to appropriate Regional Enforcement Office of NJDEP. The Notification shall include information required in 40 CFR 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion. The notification shall include the following information: (i) The name and address of the owner or operator; (ii) The address (i.e., physical location) of the affected source; (iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date; (iv) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; (v) A statement of whether the affected source is a major source or an area source; and (vi) a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion. [40 CFR 63.6645(c)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U102 Burlington LNG Natural Gas Emergency Generator**
Operating Scenario: **OS1 Burlington LNG Natural Gas Emergency Generator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Emergency Generator shall be a spark-ignition internal combustion engine and limited to natural gas. This equipment shall have the Engine Serial Number: 25406871. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially. Review manufacturer's specifications to ensure compliance. [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.
2	Particulate Emissions <= 6.08 lb/hr. [N.J.A.C. 7:27- 4.2]	None.	None.	None.
3	NOx (Total) <= 4.84 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 9.69 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 2.42 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.104 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.104 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.104 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.054 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Formaldehyde <= 0.55 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Fuel limited to natural gas only [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input <= 10.42 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate for the emergency generator[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	Hours of Operation <= 100 hr/yr for testing and maintenance only. [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(a)]	Hours of Operation: 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 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.

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): PSE&G Burlington Generating Station **Facility ID (AIMS):** 45979

Street Address: BURLINGTON GENERATING STA
DEVLIN AVE AND WEST BROAD AVE
BURLINGTON, NJ 08016

Mailing Address: BURLINGTON GENERATING STA
DEVLIN AVE AND WEST BROAD AVE
BURLINGTON, NJ 08016

State Plane Coordinates:
X-Coordinate:
Y-Coordinate:
Units:
Datum:
Source Org.:
Source Type:

County: Burlington
Location Description:

Industry:
Primary SIC: 4911
Secondary SIC:
NAICS: 221210

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Douglas Gordon
NJ EIN:
Title: Air Permitting Program Manager
Phone: (908) 412-3034 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: Douglas.Gordon@pseg.com
Mailing Address: PSEG Fossil LLC
40 Cragwood Road
South Plainfield, NJ 07080

Contact Type: BOP - Operating Permits

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Douglas Gordon
NJ EIN:
Title: Air Permitting Program Manager
Phone: (908) 412-3034 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: Douglas.Gordon@pseg.com
Mailing Address: PSEG Fossil LLC
40 Cragwood Road
South Plainfield, NJ 07080

Contact Type: Consultant

Organization: Environmental Resources Management
Org. Type: Corporation
Name: Jon D. Perry
NJ EIN:
Title: Principal Consultant
Phone: (609) 403-7505 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: jon.perry@erm.com
Mailing Address: 200 Princeton South Corporate Center
Suite 160
Ewing, NJ 08628

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Fees/Billing Contact

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Douglas Gordon
NJ EIN:
Title: Air Permitting Program Manager
Phone: (908) 421-3034 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: Douglas.Gordon@pseg.com

Mailing Address: PSEG Fossil LLC
40 Cragwood Road
South Plainfield, NJ 07080

Contact Type: General Contact

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Steve G. Leon
NJ EIN:
Title: Environmental Compliance Manager
Phone: (201) 314-7683 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: steve.leon@pseg.com

Mailing Address: Kearny Generating Station
118 Hackensack Ave
Kearny, NJ 07032

Contact Type: On-Site Manager

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Clint Bogan
NJ EIN: 00585211015
Title: Power Plant Manager - Peaking
Phone: (973) 274-6873 x
Fax: (973) 589-4970 x
Other: ( ) - x
Type:
Email: clint.bogan@pseg.com

Mailing Address: PSEG Fossil LLC
118 Hackensack Ave
Kearny Town, NJ 07032

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: PSEG Fossil LLC
NJ EIN:
Title:
Phone: ( ) - x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:
Mailing Address: 80 Park Plaza
Newark, NJ 07102

Contact Type: Owner (Current Primary)

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: PSEG Fossil LLC
NJ EIN: 00585211015
Title: PSEG Fossil LLC
Phone: (973) 430-7000 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email:
Mailing Address: 80 Park Plaza
Newark, NJ 07102

Contact Type: Responsible Official

Organization: PSEG Fossil LLC
Org. Type: Corporation
Name: Clint Bogan
NJ EIN: 00585211015
Title: Power Plant Manager - Peaking
Phone: (973) 274-6873 x
Fax: (973) 589-4970 x
Other: ( ) - x
Type:
Email: clint.bogan@pseg.com
Mailing Address: PSEG Fossil LLC
118 Hackensack Ave
Kearny Town, NJ 07032

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979) Date: 08/12/2020
BOP180001

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	Miscellaneous Pipes, Flanges, and Fittings										
FG2	Miscellaneous Solvent Uses										
Total			3.600	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

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	Insignificant Liquid Storage Tanks or Vessels	Storage Vessel										
IS2	Commercial Fuel Equipment < 1MMBtu/hr and Non-Emergency Electric Generators < 37 kW	Fuel Combustion Equipment (Other)										
IS3	Waste or water treatment equipment < 100 ppbw each TXS, and < 3500 ppbw ppbw total VOC	Other Equipment										
IS5	Cold Cleaning Machines(< 6ft^2, open top,<=100 gal capacity,>2 gal solvents, > 5% VOC content)	Cleaning Machine (Open Top: Cold)										
IS6	Surface coating operations < 0.5 gallons/ hour	Surface Coating Equipment (Non-Fabric Material)										
IS7	Satellite accumulation areas (Storage Tanks with Capacities <2,000 Gallons VOC)	Other Equipment										

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

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)
IS8	Fuel reclaim area (<50 lb/hr of materials)	Other Equipment										
IS9	Fire protection systems (<50 lb/hr of materials)	Other Equipment										
IS10	Building sumps with any TXS < 100 ppbw or VOC (Total) < 3500 ppbw in water concentration	Other Equipment										
IS11	Chemical cleaning systems (<50 lb/hr of materials)	Other Equipment										
IS12	Generator purge system (<50 lb/hr of materials)	Other Equipment										
IS13	Floor drain collection with any TXS < 100 ppbw or VOC (Total) < 3500 ppbw in water concentration	Other Equipment										
IS15	Fuel oil storage tanks, with capacities >10,000 Gallons and < 0.02 psia vapor pressure	Storage Vessel										
IS16	Welding Equipment < 12 lb/calendar day of welding rod or wire	Other Equipment										
Total				4.300	16.300	3.800	0.000	1.100	1.200	0.000	0.54000000	0.000

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979) Date: 8/12/2020

BOP180001

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
E36	Module 121	Unit No. 12 Module 121	Combustion Turbine	PCP990001	5/1/2000	No		
E37	Module 122	Unit No. 12 Module 122	Combustion Turbine	PCP990001	5/1/2000	No		
E38	Module 123	Unit No. 12 Module 123	Combustion Turbine	PCP990001	5/1/2000	No		
E39	Module 124	Unit No. 12 Module 124	Combustion Turbine	PCP990001	5/1/2000	No		
E40	Blackst. EDG	Blackstart Generator	Emergency Generator	GEN990001	1/1/2000	No		
E45	EFP #5	Fire Pump	Emergency Fire Pump	PCP040001	9/16/2004	No		
E46	EFP #6	Fire Pump	Emergency Fire Pump	PCP040002	9/21/2004	No		
E47	HWH #1	Hot Water Heater No. 1	Boiler	BOP060002	11/1/2007	No		
E48	HWH #2	Hot Water Heater No. 2	Boiler	BOP060002	11/1/2007	No		
E49	HWH #3	Hot Water Heater No. 3	Boiler		10/1/2020	No		
E101	SubEDG	Burlington Substation EDG	Emergency Generator	BOP120001	1/1/2014	No		
E102	LNG NG Gen	Burlington LNG Plant Natural Gas Emergency Generator	Emergency Generator	BOP150002	12/1/2015	No		

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E37 (Combustion Turbine)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	463.00
Type of Turbine:	Aero-Derivative
Type of Cycle:	Simple-Cycle — Description:
Industrial Application:	Electrical Generator — Description:
Power Output:	45.00 — Units: Megawatts

Is the combustion turbine using (check all that apply):

A Dry Low NOx Combustor:	☐		
Steam Injection:	☐	Steam to Fuel Ratio:	
Water Injection:	☑	Water to Fuel Ratio:	0.70
Other:	☐	Description:	

Is the turbine Equipped with a Duct Burner? ○ 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: For informational purposes only.

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E38 (Combustion Turbine)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	463.00
Type of Turbine:	Aero-Derivative
Type of Cycle:	Simple-Cycle — Description:
Industrial Application:	Electrical Generator — Description:
Power Output:	45.00 — Units: Megawatts

Is the combustion turbine using (check all that apply):

A Dry Low NOx Combustor:	☐		
Steam Injection:	☐	Steam to Fuel Ratio:	
Water Injection:	☑	Water to Fuel Ratio:	0.70
Other:	☐	Description:	

Is the turbine Equipped with a Duct Burner? ○ 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: For informational purposes only.

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E39 (Combustion Turbine)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	463.00
Type of Turbine:	Aero-Derivative
Type of Cycle:	Simple-Cycle — Description:
Industrial Application:	Electrical Generator — Description:
Power Output:	45.00 — Units: Megawatts

Is the combustion turbine using (check all that apply):

A Dry Low NOx Combustor:	☐		
Steam Injection:	☐	Steam to Fuel Ratio:	
Water Injection:	☑	Water to Fuel Ratio:	0.70
Other:	☐	Description:	

Is the turbine Equipped with a Duct Burner? ○ 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: For informational purposes only.

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E40 (Emergency Generator)
Print Date: 6/30/2020

Make:	Detroit Diesel
Manufacturer:	Detroit Diesel
Model:	8123-7405
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	6.10
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:	For informational purposes only.

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E36 (Combustion Turbine)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	463.00
Type of Turbine:	Aero-Derivative
Type of Cycle:	Simple-Cycle — Description:
Industrial Application:	Electrical Generator — Description:
Power Output:	45.00 — Units: Megawatts

Is the combustion turbine using (check all that apply):

A Dry Low NOx Combustor:	☐		
Steam Injection:	☐	Steam to Fuel Ratio:	
Water Injection:	☑	Water to Fuel Ratio:	0.70
Other:	☐	Description:	

Is the turbine Equipped with a Duct Burner? ○ 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: For informational purposes only.

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E45 (Emergency Fire Pump)
Print Date: 6/30/2020

Make:	Clarke fire pump/John Deere engine
Manufacturer:	Clarke fire pump/John Deere engine
Model:	JU4H-UF58
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.00
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:	Rating: 110hp output

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E46 (Emergency Fire Pump)
Print Date: 6/30/2020

Make:	Clarke fire pump/John Deere engine
Manufacturer:	Clarke fire pump/John Deere engine
Model:	JU4H-UF58
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.00
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:	Rating: 110hp output

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E47 (Boiler)
Print Date: 6/30/2020

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CBLE700-800-125HW
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	32.70
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
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?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes

Comments:

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E48 (Boiler)
Print Date: 6/30/2020

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CBLE700-800-125HW
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	32.70
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
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?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes

Comments:

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E49 (Boiler)
Print Date: 6/30/2020

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CBLE700-800-125HW
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	33.30
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
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? Yes

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

Comments:

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E101 (Emergency Generator)
Print Date: 6/30/2020

Make:	Cummins 500DFEK
Manufacturer:	Cummins
Model:	QSX15-G9
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.86
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:	755 bhp

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 E102 (Emergency Generator)
Print Date: 6/30/2020

Make:	Cummins NPower
Manufacturer:	Cummins NPower
Model:	GTA50 CC
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	10.42
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:	Cummins NPower GTA50 CC natural gas fired emergency generator with standby rating 819 kW (1,098 hp).

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979) Date: 8/12/2020

BOP180001

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
CD19	WI 121	Water Injection on Unit No. 12, Module 121	Other	5/1/2000	No		
CD20	WI 122	Water Injection on Unit No. 12, Module 122	Other	5/1/2000	No		
CD21	WI 123	Water Injection on Unit No. 12, Module 123	Other	5/1/2000	No		
CD22	WI 124	Water Injection on Unit No. 12, Module 124	Other	5/1/2000	No		
CD102	Catalyst 1	Burlington LNG EG 3-Way-Catalyst 1	Oxidizer (Catalytic)	12/1/2015	No		
CD103	Catalyst 2	Burlington LNG EG 3-Way-Catalyst 2	Oxidizer (Catalytic)	12/1/2015	No		

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD20 (Other)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (°F):	
Minimum Temperature of Vapor Stream to Control Device (°F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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:	CEMS
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:	

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD21 (Other)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (°F):	
Minimum Temperature of Vapor Stream to Control Device (°F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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:	CEMS
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:	

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD22 (Other)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (°F):	
Minimum Temperature of Vapor Stream to Control Device (°F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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:	CEMS
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:	

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD102 (Oxidizer (Catalytic))
Print Date: 6/30/2020

Make:	Custom
Manufacturer:	Custom
Model:	
Minimum Inlet Temperature (°F):	900
Maximum Inlet Temperature (°F)	1224
Minimum Outlet Temperature (°F)	900
Maximum Outlet Temperature (°F):	1224
Minimum Residence Time (sec)	0.1
Fuel Type:	
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	
Maximum Pressure Drop Across Catalyst (psi):	1
Catalyst Material:	Platinum Group Metals
Form of Catalyst:	Honeycomb
Description:	
Minimum Expected Life of Catalyst:	3
Units:	Years
Volume of Catalyst (ft^3):	1
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:	Stack Testing
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:	

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD19 (Other)
Print Date: 6/30/2020

Make:	GE LM6000
Manufacturer:	General Electric
Model:	GE LM6000
Maximum Air Flow Rate to Control Device (acfm):	
Maximum Temperature of Vapor Stream to Control Device (°F):	
Minimum Temperature of Vapor Stream to Control Device (°F):	
Minimum Moisture Content of Vapor Stream to Control Device (%):	
Minimum Pressure Drop Across Control Device (in. H20):	
Maximum Pressure Drop Across Control Device (in. H20):	
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:	CEMS
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:	

45979 PSEG FOSSIL LLC BURLINGTON GENERATING STA BOP180001 CD103 (Oxidizer (Catalytic))
Print Date: 6/30/2020

Make:	Custom
Manufacturer:	Custom
Model:	
Minimum Inlet Temperature (°F):	900
Maximum Inlet Temperature (°F)	1224
Minimum Outlet Temperature (°F)	900
Maximum Outlet Temperature (°F):	1224
Minimum Residence Time (sec)	0.1
Fuel Type:	
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	
Maximum Pressure Drop Across Catalyst (psi):	1
Catalyst Material:	Platinum Group Metals
Form of Catalyst:	Honeycomb
Description:	
Minimum Expected Life of Catalyst:	3
Units:	Years
Volume of Catalyst (ft^3):	1
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:	Stack Testing
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:	

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

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.		
PT32	Module 121	Unit No. 12 Module 121	Round	108	100	380	820.0	750.0	840.0	570,000.0	500,000.0	600,000.0	Up	
PT33	Module 122	Unit No. 12 Module 122	Round	108	100	320	820.0	750.0	840.0	570,000.0	500,000.0	600,000.0	Up	
PT34	Module 123	Unit No. 12 Module 123	Round	108	100	260	820.0	750.0	840.0	570,000.0	500,000.0	600,000.0	Up	
PT35	Module 124	Unit No. 12 Module 124	Round	108	100	200	820.0	750.0	840.0	570,000.0	500,000.0	600,000.0	Up	
PT36	Blckst. EDG1	Blackstart Generator	Round	6	10	300	810.0	750.0	850.0	4,870.0	4,600.0	5,100.0	Horizontal	
PT37	Blckst. EDG2	Blackstart Generator	Round	6	10	300	810.0	750.0	850.0	4,870.0	4,600.0	5,100.0	Horizontal	
PT45	EFP #5	Fire Pump	Round	4	12	80	1,108.0	1,108.0	1,108.0	554.0	554.0	554.0	Up	
PT46	EFP #6	Fire Pump	Round	4	12	80	1,108.0	1,108.0	1,108.0	554.0	554.0	554.0	Up	
PT47	HWH #1	Hot Water Heater No. 1	Round	24	26	177	255.0	155.0	320.0	8,593.0	0.0	10,750.0	Up	
PT48	HWH #2	Hot Water Heater No. 2	Round	24	26	157	255.0	155.0	320.0	8,593.0	0.0	10,750.0	Up	
PT49	HWH #3	Hot Water Heater No. 3	Round	24	26	137	213.0	191.0	224.0	5,924.0	0.0	8,031.0	Up	
PT101	SubEDG	Burlington Substation EDG	Round	8	12	140	900.0	800.0	1,000.0	3,625.0	0.0	4,000.0	Up	
PT102	LNG NG Gen-1	Burlington LNG Plant NG Emergency Generator	Round	10	14	60	1,000.0	900.0	1,224.0	3,062.0	0.0	3,062.0	Up	
PT103	LNG NG Gen-2	Burlington LNG Plant NG Emergency Generator	Round	10	14	60	1,000.0	900.0	1,224.0	3,062.0	0.0	3,062.0	Up	

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 15 Unit No. 12 Four simple-cycle stationary turbine used for electric power generation

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	Module 121NG	Unit No. 12 Module 121 Natural Gas Firing	Normal - Steady State	E36	CD19 (P)	PT32								
OS2	Module 121DO	Unit No. 12 Module 121 Distillate Oil Firing	Normal - Steady State	E36	CD19 (P)	PT32								
OS3	Module 122NG	Unit No. 12 Module 122 Natural Gas Firing	Normal - Steady State	E37	CD20 (P)	PT33								
OS4	Module 122DO	Unit No. 12 Module 122 Distillate Oil Firing	Normal - Steady State	E37	CD20 (P)	PT33								
OS5	Module 123NG	Unit No. 12 Module 123 Natural Gas Firing	Normal - Steady State	E38	CD21 (P)	PT34								
OS6	Module 123DO	Unit No. 12 Module 123 Distillate Oil Firing	Normal - Steady State	E38	CD21 (P)	PT34								
OS7	Module 124NG	Unit No. 12 Module 124 Natural Gas Firing	Normal - Steady State	E39	CD22 (P)	PT35								
OS8	Module 124DO	Unit No. 12 Module 124 Distillate Oil Firing	Normal - Steady State	E39	CD22 (P)	PT35								
OS9	Module121SUG	Unit No.12 Module 121-Startup-N Gas	Startup	E36		PT32								
OS10	Module121SDG	Unit No.12 Module 121-Shutdown-N Gas	Shutdown	E36		PT32								
OS11	Module121FTG	Unit No.12 Module 121-Fuel transfer-N Gas	Startup	E36		PT32								
OS12	Modul121MSTG	Unit No.12 Module 121-Mechanical Safety Testing-N Gas	Maintenance	E36		PT32								
OS13	Module122SUG	Unit No.12 Module 122-Startup-N Gas	Startup	E37		PT33								
OS14	Module122SDG	Unit No.12 Module 122-Shutdown-N Gas	Shutdown	E37		PT33								
OS15	Module122FTG	Unit No.12 Module 122-Fuel Transfer-N Gas	Startup	E37		PT33								

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 15 Unit No. 12 Four simple-cycle stationary turbine used for electric power generation

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.
OS16	Modul122MSTG	Unit No.12 Module 122-Mechanical Safety Testing-N Gas	Maintenance	E37		PT33								
OS17	Module123SUG	Unit No.12 Module 123-Startup-N Gas	Startup	E38		PT34								
OS18	Module123SDG	Unit No.12 Module 123-Shutdown-N Gas	Shutdown	E38		PT34								
OS19	Module123FTG	Unit No.12 Module 123-Fuel Transfer-N Gas	Startup	E38		PT34								
OS20	Modul123MSTG	Unit No.12 Module 123-Mechanical Safety Testing-N Gas	Maintenance	E38		PT34								
OS21	Module124SUG	Unit No.12 Module 124-Startup-N Gas	Startup	E39		PT35								
OS22	Module124SDG	Unit No.12 Module 124-Shutdown-N Gas	Shutdown	E39		PT35								
OS23	Module124FTG	Unit No.12 Module 124-Fuel Transfer-N Gas	Startup	E39		PT35								
OS24	Modul124MSTG	Unit No.12 Module 124-Mechanical Safety Testing-N Gas	Maintenance	E39		PT35								
OS25	Module121SUO	Unit No.12 Module 121-Startup-ULSD	Startup	E36		PT32								
OS26	Module121SDO	Unit No.12 Module 121-Shutdown-ULSD	Shutdown	E36		PT32								
OS27	Module121FTO	Unit No.12 Module 121-Fuel Transfer-ULSD	Startup	E36		PT32								
OS28	Modul121MSTG	Unit No.12 Module 121-Mechanical Safety Testing-ULSD	Maintenance	E36		PT32								
OS29	Module122SUO	Unit No.12 Module 122-Startup-ULSD	Startup	E37		PT33								

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 15 Unit No. 12 Four simple-cycle stationary turbine used for electric power generation

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.
OS30	Module122SDO	Unit No.12 Module 122-Shutdown-ULSD	Shutdown	E37		PT33								
OS31	Module122FTO	Unit No.12 Module 122-Fuel Transfer-ULSD	Startup	E37		PT33								
OS32	Modul122MSTC	Unit No.12 Module 122-Mechanical Safety Testing-ULSD	Maintenance	E37		PT33								
OS33	Module123SUO	Unit No.12 Module 123-Startup-ULSD	Startup	E38		PT34								
OS34	Module123SDO	Unit No.12 Module 123-Shutdown-ULSD	Shutdown	E38		PT34								
OS35	Module123FTO	Unit No.12 Module 123-Fuel Transfer-ULSD	Startup	E38		PT34								
OS36	Modul123MSTC	Unit No.12 Module 123-Mechanical Safety Testing-ULSD	Maintenance	E38		PT34								
OS37	Module124SUO	Unit No.12 Module 124-Startup-ULSD	Startup	E39		PT35								
OS38	Module124SDO	Unit No.12 Module 124-Shutdown-ULSD	Shutdown	E39		PT35								
OS39	Module124FTO	Unit No.12 Module 124-Fuel Transfer-ULSD	Startup	E39		PT35								
OS40	Modul124MSTC	Unit No.12 Module 124-Mechanical Safety Testing-ULSD	Maintenance	E39		PT35								

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 16 Blackst. EDG Blackstart Generator

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	Blackst. EDG	Blackstart Generator	Normal - Steady State	E40		PT36 PT37								

U 18 HWH #1 & #2 Hot Water Heaters No. 1 and 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	HWH #1	Hot Water Heater No. 1	Normal - Steady State	E47		PT47	1-03-006-03	0.0	8,200.0		0.0	10,750.0	155.0	320.0
OS2	HWH #2	Hot Water Heater No. 2	Normal - Steady State	E48		PT48	1-03-006-03	0.0	8,200.0		0.0	10,750.0	155.0	255.0

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 19 HWH #3 Hot Water Heater No. 3

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	HWH #3	Hot Water Heater No. 3	Normal - Steady State	E39		PT49	1-03-006-02		8,760.0		0.0	8,031.0	191.0	224.0

U 45 EFP #5 Fire Pump

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	EFP #5	Emergency Fire Pump Firing Diesel	Normal - Steady State	E45		PT45								

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 46 EFP #6 Fire Pump

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	EFP #6	Emergency Fire Pump Firing Diesel	Normal - Steady State	E46		PT46								

U 101 SubEDG Burlington Substation Emergency Generator Firing Distillate Oil

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	SubEDG	Burlington Substation Emergency Generator Firing Distillate Oil	Normal - Steady State	E101		PT101	2-02-001-02	0.0	500.0		0.0	4,000.0	800.0	1,000.0

PSEG FOSSIL LLC BURLINGTON GENERATING STA (45979)
BOP180001

Date: 8/12/2020

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 102 LNG NG Gen Burlington LNG Natural Gas Emergency Generator

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	LNG NG Gen	Burlington LNG Natural Gas Emergency Generator	Normal - Steady State	E102	CD102 (P) CD103 (P)	PT102 PT103	2-01-002-02	0.0	100.0		0.0	6,124.0	0.0	1,224.0

Date: 8/12/2020

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR2 GE LM6000TE

Members:

Type	ID	OS	Step
U	U 15	OS0 Summary	
U	U 15	OS1 Module 121NG	
U	U 15	OS2 Module 121DO	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): Requirements for Exchange of GE LM6000Turbines between PSEG Kearny and PSEG Burlington

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

Date: 8/12/2020

New Jersey Department of Environmental Protection
Subject Item Group Inventory

Group NJID: GR3 RGGI

Members:

Type	ID	OS	Step
E	E 36		
E	E 37		
E	E 38		
E	E 39		
U	U 15	OS0 Summary	

Formal Reason(s) for Group/Cap:

☑ Other

Other (explain): RGGI Requirements

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances:

State of New Jersey
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

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

CATHERINE R. McCABE
Commissioner

DRAFT

PHASE II ACID RAIN PERMIT

Issued to: Burlington Generating Station
Devlin Avenue and West Broad Avenue
Burlington, NJ 08016

Owned by: PSEG Fossil LLC
80 Park Plaza
P.O. Box 570
Newark, NJ 07102

Operated by: PSEG Fossil LLC
80 Park Plaza
P.O. Box 570
Newark, NJ 07102

ORIS Code: **2399**

Effective: To coincide with the Operating Permit Dates (**expires February 24, 2025)**

This Acid Rain Permit is issued under the authority of Chapter 106, P.L.1967 (N.J.S.A. 26:2C-9.2) and Titles IV and V of the Clean Air Act. The owners and operators of each affected unit at this facility shall comply with all of the requirements established in this permit.

Approved by:

_____
David J. Owen
Supervisor, Bureau of Air Permits

ACID RAIN PERMIT CONTENTS

1) STATEMENT OF BASIS

2) UNIT SPECIFIC REQUIREMENTS

3) COMMENTS, NOTES, AND JUSTIFICATIONS REGARDING PERMIT DECISIONS

4) PHASE II PERMIT APPLICATION

1) Statement of Basis

In accordance with N.J.S.A. 26:2C-9.2 and Titles IV and V of the Clean Air Act, the Department issues this permit pursuant to N.J.A.C. 7:27 et seq.

2) Unit Specific Requirements

Refer to 40 CFR 72 for specific requirements.

3) Comments, Notes, And Justifications Regarding Permit Decisions

This facility is subject to the Operating Permit regulations promulgated at N.J.A.C. 7:27-22. Therefore, the facility must obtain an Operating Permit. The Department is currently reviewing the Operating Permit application filed by the applicant, and expects to issue a permit decision on their application in the near future. The procedures for incorporating this Acid Rain permit into the Operating Permit shall be consistent with the state requirements at N.J.A.C. 7:27-22.29, the federal requirements at 40 CFR 72, and any official guidance issued by USEPA.

4) Phase II Permit Application

The owners and operators shall comply with all of the standard requirements and special provisions set forth on the attached Phase II Permit Application for each affected unit.

ATTACHMENT 2

Acid Rain Permit Application

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2018

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ **new** ☐ **revised** ☒ **for ARP permit renewal**

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Burlington Generating Station	NJ	2399
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
121	Yes
122	Yes
123	Yes
124	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Burlington Generating Station
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
  (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
  (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
  (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
  (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Burlington Generating Station
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
  (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Burlington Generating Station
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Peter Van Den Houten	
Signature 	Date Nov 12, 2018

Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a title V permit, or such longer time as provided for under the title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**

ATTACHMENT

Cross-State Air Pollution Rule (CSAPR) for the CSAPR NOx Annual Trading Program requirements, CSAPR NOx Ozone Season Trading Program, and CSAPR SO2 Trading Program

Transport Rule (TR) Trading Program Title V Requirements

TR NO_X Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_X Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.

(1) TR NO_X Annual emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall hold, in the source's compliance account, TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Annual units at the source.

(ii). If total NO_X emissions during a control period in a given year from the TR NO_X Annual units at a TR NO_X Annual source are in excess of the TR NO_X Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO_X Annual unit at the source shall hold the TR NO_X Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The owners and operators of the source and each TR NO_X Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess

emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NO_X Annual assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all TR NO_X Annual units at TR NO_X Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO_X Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Annual units at TR NO_X Annual sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR NO_X Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO_X Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR NO_X Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR NO_X Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.

(6) Limited authorization. A TR NO_X Annual allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR NO_X Annual Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_X Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such

certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Annual Trading Program.

(2) The designated representative of a TR NO_X Annual source and each TR NO_X Annual unit at the source shall make all submissions required under the TR NO_X Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual source or the designated representative of a TR NO_X Annual source shall also apply to the owners and operators of such source and of the TR NO_X Annual units at the source.

(2) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual unit or the designated representative of a TR NO_X Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_X Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_X Annual source or TR NO_X Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NO_X Ozone Season Trading Program Requirements (40 CFR 97.506)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_X Ozone Season source and each TR NO_X Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_X Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_X Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.

(1) TR NO_X Ozone Season emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_X Ozone Season source and each TR NO_X Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_X Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Ozone Season units at the source.

(ii). If total NO_X emissions during a control period in a given year from the TR NO_X Ozone Season units at a TR NO_X Ozone Season source are in excess of the TR NO_X Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO_X Ozone Season unit at the source shall hold the TR NO_X Ozone Season allowances required for deduction under 40 CFR 97.524(d); and

(B). The owners and operators of the source and each TR NO_X Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(2) TR NO_X Ozone Season assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all TR NO_X Ozone Season units at TR NO_X Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more

sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total NO_X emissions from all TR NO_X Ozone Season units at TR NO_X Ozone Season sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO_X Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all TR NO_X Ozone Season units at TR NO_X Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the State NO_X Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart BBBBB or of the Clean Air Act if total NO_X emissions from all TR NO_X Ozone Season units at TR NO_X Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Ozone Season units at TR NO_X Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR NO_X Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO_X Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(3) Compliance periods.

(i). A TR NO_X Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(ii). A TR NO_X Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i). A TR NO_X Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_X Ozone Season allowance that was allocated for such control period or a control period in a prior year.
   (ii). A TR NO_X Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_X Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NO_X Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.

(6) Limited authorization. A TR NO_X Ozone Season allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:
   (i). Such authorization shall only be used in accordance with the TR NO_X Ozone Season Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_X Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_X Ozone Season source and each TR NO_X Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
   (i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_X Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Ozone Season Trading Program.

(2) The designated representative of a TR NO_X Ozone Season source and each TR NO_X Ozone Season unit at the source shall make all submissions required under the TR NO_X Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NO_X Ozone Season Trading Program that applies to a TR NO_X Ozone Season source or the designated representative of a TR NO_X Ozone Season source shall also apply to the owners and operators of such source and of the TR NO_X Ozone Season units at the source.

(2) Any provision of the TR NO_X Ozone Season Trading Program that applies to a TR NO_X Ozone Season unit or the designated representative of a TR NO_X Ozone Season unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_X Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_X Ozone Season source or TR NO_X Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO_2 Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO_2 emissions requirements.

(1) TR SO_2 Group 1 emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO_2 Group 1 source and each TR SO2 Group 1 unit at the source shall hold, in the source's compliance account, TR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all TR SO_2 Group 1 units at the source.

(ii). If total SO_2 emissions during a control period in a given year from the TR SO_2 Group 1 units at a TR SO_2 Group 1 source are in excess of the TR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR SO_2 Group 1 unit at the source shall hold the TR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The owners and operators of the source and each TR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) TR SO_2 Group 1 assurance provisions.

(i). If total SO_2 emissions during a control period in a given year from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and

units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such SO_2 emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR SO_2 Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A TR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A TR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR SO_2 Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO_2 Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR SO_2 Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO_2 Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.

(6) Limited authorization. A TR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR SO_2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO_2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO_2 Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E), Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO_2 Group 1 Trading Program.

(2) The designated representative of a TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall make all submissions required under the TR SO_2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 source or the designated representative of a TR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the TR SO_2 Group 1 units at the source.

(2) Any provision of the TR SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 unit or the designated representative of a TR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO_2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO_2 Group 1 source or TR SO_2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.