



# 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 Significant Modification

**Permit Activity Number: BOP200001**

**Program Interest Number: 45949**

Mailing Address	Plant Location
EVE A. CULLINAN COUNTY ADMINISTRATOR BURLINGTON CNTY BD OF CHOSEN FREEHOLDERS PO BOX 6000 - 49 RANCOCAS RD Mount Holly, NJ 08060	BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX 21939 Columbus Rd Mansfield Burlington County

**Initial Operating Permit Approval Date:**

**June 28, 2005**

**Operating Permit Approval Date:**

**Draft**

**Operating Permit Expiration Date:**

**June 27, 2020 - WITH APPLICATION SHIELD**

### **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.

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

### **PERMIT SHIELD**

Equipment at the facility referenced by this modification **is not covered** by the 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 William Forero at (609) 292-1079.

Approved by:

\_\_\_\_\_  
Aliya M. Khan

Enclosure

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

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**  
**Program Interest Number: 45949**  
**Permit Activity Number: BOP200001**

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**Section A**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP200001**

**POLLUTANT EMISSIONS SUMMARY**

Table 1: Total emissions from all Significant Source Operations<sup>1</sup> at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs* (total)	CO <sub>2e</sub> <sup>3</sup>
Emission Units Summary	59.4	108.3	387.7	55.1	34.6	31.1	16.1	N/A	0.346	
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	59.4	108.3	387.7	55.1	34.6	31.1	16.1	N/A	0.346	844,365

Table 2: Estimate of total emissions from all Insignificant Source Operations<sup>1</sup> 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 <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs (total)
Insignificant Source Operations	0.036	0.633	0.103	0.032	0.032	0.032	0.032	N/A	N/A
Non-Source Fugitive Emissions <sup>4</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO<sub>x</sub>: Nitrogen Oxides

CO: Carbon Monoxide

SO<sub>2</sub>: Sulfur Dioxide

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).

TSP: Total Suspended Particulates

Other: Any other air contaminant regulated under the Federal CAA

PM<sub>10</sub>: Particulates under 10 microns

PM<sub>2.5</sub>: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO<sub>2e</sub>: Carbon Dioxide equivalent

\*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.

<sup>1</sup> Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

<sup>2</sup> PM<sub>2.5</sub> has been included in air permitting rules as of December 9, 2017. Consequently, PM<sub>2.5</sub> totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

<sup>3</sup> Total CO<sub>2e</sub> emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

<sup>4</sup> 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: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP200001**

**POLLUTANT EMISSIONS SUMMARY**

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations <sup>5</sup>:

HAP	TPY
Benzene	0.337
Formaldehyde	0.005

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

Other Air Contaminant	TPY
Methane	4,968

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<sup>5</sup> 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: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**  
**Program Interest Number: 45949**  
**Permit Activity Number: BOP200001**

### 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: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP200001**

**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:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	13b	---
D	FC	---	3
D	FC	---	9

**Section D**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX  
 Program Interest Number: 45949  
 Permit Activity Number: BOP200001**

**FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES**

**FACILITY SPECIFIC REQUIREMENTS PAGE INDEX**

**Subject Item and Name** **Page Number**

**Facility (FC):**

FC 1

**Insignificant Sources (IS):**

<b>IS NJID</b>	<b>IS Description</b>	
IS2	One 10,000 Gallons Diesel Fuel Tank (UST) with VP <= 0.02 PSIA	6
IS5	One 550 Gallons Diesel Fuel Tank (AST)	8
IS6	One 550 Gallons Diesel Fuel Tank (AST)	8
IS7	One 300 Gallons Diesel Fuel Tank (AST)	8
IS8	One 285 Gallons Diesel Fuel Tank (AST)	8
IS13	One 275 Gallons Diesel Fuel Tank (AST)	8
IS20	8 Units - CO2 Generators (NG) each 60,000 Btu/hour	9
IS21	One Water Heater (NG) 200,000 Btu/hour	9
IS22	One Central Heating Unit (LPG) 60,000 Btu/hour	9
IS23	6 Units - Radiant Space Heating Tube (LPG) each 60,000 Btu/hour	9
IS34	One 90 Gallon Diesel Tank on Screen	8
IS35	One - LPG Ford Engine Generator Model 300GF-6005-A (616,000 Btu/hr) < 37kW	10
IS37	One - Greenhouse Emergency Generator "Ingersoll Rand IR-90" (886,000 Btu/hr)	11
IS38	One 190 Gallon Fuel Tank for Generator	8
IS39	One Fire Pump Diesel Engine (643,900 Btu/hr)	14
IS40	One 500 Pound per Day Anaerobic Digester (< 50 lb/hr)	18
IS44	One Used Oil Furnace "Energylogic EL-340H" 340,000 BTUs	19
IS45	One Horizontal 500 Gallon Tank "Distillate Fuel Oil #2"	8

**Emission Units (U):**

<b>U NJID</b>	<b>U Designation</b>	<b>U Description</b>	
U1	Landfill	Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)	23
U2	Boiler-1	One 4.72 MMBTU/hr Greenhouse Boiler	56
U7	Kohler EG	One Kohler Emergency Generator with (ICE)	59
U8	CCF	Co-composting Facility	64
U9	Carbon Silo	One Dust - Powdered Activated Carbon Silo	72
U11	L.Treatment	One Leachate Treatment System	75

U19	LST # 3	One Leachate Storage Tank No. 3 ( 1 million gallon) with Vapor pressure <= 0.02 psia	82
U20	Micro Turbin	Four (4) Micro-Turbines	83
U21	(1) MicroTu5	One (1) Microturbine 5	86
U30	LFG to Energ	Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System	90
U36	TS-1	One Trommel Screen for Wood Chips and Landfill Cover	121
U38	Grinder&ICE	Diamond Z Horizontal Grinder and Engine	128
U40	DZ 1463	One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder	144
U50	Doppstadt	Doppstadt Screen at CoComposting Facility	161

**New Jersey Department of Environmental Protection  
Reason for Application**

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 190001

**Description of Modifications:** This Permit Modification is replacing a broken down CoComposting trommel screen at U37 with a new Doppstadt Screen Engine at U50 as follows:

1. Removal of the Co-composting trommel screen at emission unit U37 with its operating scenarios, OS1 for equipment E39, one 0.44 MMBTU/hr engine; OS2 for E40, one screen; and OS3 for E41, one conveyor; and their corresponding emission points PT39, PT40, and PT41 from the permit, as well as the IS34-One 90 Gallon Diesel Tank on Screen.
2. Addition of a new Doppstadt Screen as U50 and the operating scenarios OS1 for equipment E50, one diesel ICE 0.93MMBTU/hr, OS2 for E51 one Doppstadt Screen, OS3 & OS4 for E52 & E53 Doppstadt Screen Conveyor 1&2, and their corresponding emission points PT50, PT51, PT52, and PT53.

This modification results in a facility-wide potential emissions decrease of 1.8 tons per year of volatile organic compounds (VOC), 1.7 tons per year of nitrogen oxides (NOx), 0.5 tons per year of total suspended particulate matter (TSP), 0.2 tons per year of particulate matter less than or equal to 10 microns in size (PM10), and an increase of 1.1 tons per year of carbon monoxide (CO).

BOP200001

**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.

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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.	<p>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.</p> <p>The NJDEP online web portal can be accessed at:  <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a>. 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]</p>
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)].	<p>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)]</p>
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.

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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]

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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: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . 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: IS2 One 10,000 Gallons Diesel Fuel Tank (UST) with VP <= 0.02 PSIA**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
4	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	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.
6	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.
7	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.
8	The tank(s) can not be subject to any NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
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. 7:27-22, Appendix I, Table B. [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 Ref. #2 to #8 above 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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**Subject Item: IS5 One 550 Gallons Diesel Fuel Tank (AST) , IS6 One 550 Gallons Diesel Fuel Tank (AST), IS7 One 300 Gallons Diesel Fuel Tank (AST), IS8 One 285 Gallons Diesel Fuel Tank (AST), IS13 One 275 Gallons Diesel Fuel Tank (AST), IS38 One 190 Gallon Fuel Tank for Generator, IS45 One Horizontal 500 Gallon Tank "Distillate Fuel Oil #2"**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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**Subject Item: IS20 8 Units - CO2 Generators (NG) each 60,000 Btu/hour, IS21 One Water Heater (NG) 200,000 Btu/hour, IS22 One Central Heating Unit (LPG) 60,000 Btu/hour, IS23 6 Units - Radiant Space Heating Tube (LPG) each 60,000 Btu/hour**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: No visible emissions, 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)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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**Subject Item: IS35 One - LPG Ford Engine Generator Model 300GF-6005-A (616,000 Btu/hr) < 37kW**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. 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 condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine or any stationary turbine engine for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.

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**Subject Item: IS37 One - Greenhouse Emergency Generator "Ingersoll Rand IR-90" (886,000 Btu/hr)**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	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.
5	Generator fuel limited to natural gas, # 2 fuel oil or diesel fuel. [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
6	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>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,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>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]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance:                         <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>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.</li> </ol> <p>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]</p>	<p>None.</p>

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7	<p>This emergency generator shall not be used:</p> <p>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 <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
8	<p>Hours of Operation &lt;= 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)]</p>	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 For each time the emergency generator is specifically operated for testing or maintenance: <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator.</li> </ul> [N.J.A.C. 7:27-19.11]	None.

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**Subject Item:** IS39 One Fire Pump Diesel Engine (643,900 Btu/hr)

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	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.
5	Generator fuel limited to natural gas, # 2 fuel oil or diesel fuel. [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
6	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>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,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>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</li> <li>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]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance:                         <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>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.</li> </ol> <p>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]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>This emergency generator shall not be used:</p> <p>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 <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	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.

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**Subject Item: IS40 One 500 Pound per Day Anaerobic Digester (< 50 lb/hr)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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Subject Item: IS44 One Used Oil Furnace "Energylogic EL-340H" 340,000 BTUs

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 0.5 MMBTU/hr (HHV). The total combined gross heat input of all space heaters at any one facility does not exceed 500,000 BTUs per hour. If any additional used oil space heater(s) at the facility result in the combined total gross heat input of all space heaters exceeding 500,000 BTUs per hour, then all of the space heaters shall require permits pursuant to N.J.A.C. 7:27 20.4. [N.J.A.C. 7:27-20.3(a)1]	None.	None.	None.
2	The used oil space heater(s) shall be operated for energy recovery only (for example, space heating or hot water heating). [N.J.A.C. 7:27-20.3(b)1]	None.	None.	None.
3	The used oil space heater(s) shall only combust used oils generated on-site, or from household do-it-yourselfer used oil generators, or from do-it-yourselfer used oil collection centers. [N.J.A.C. 7:27-20.3(b)2]	None.	None.	None.
4	The used oil space heater(s) shall combust only used oil from conveyances that are powered by an internal combustion engine, consisting of any of the following substances: used crankcase oil, used transmission fluid, used power steering fluid, and used brake fluid. Number 1 and Number 2 commercial fuel oils may also be burned. Other substances may not be added to the used oil storage tank including, but not limited to: antifreeze, carburetor cleaner, paint thinner, paint, part degreaser solvents, gasoline, oil additives, chlorinated solvents, battery acid, and substances defined as hazardous wastes pursuant to N.J.A.C. 7:26G-5. [N.J.A.C. 7:27-20.3(b)3]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
5	The discharge point of the stack serving the used oil space heater(s) shall be higher than the peak of the roof of the building in which the space heater is located and that discharge point shall be at least 20 feet above grade. [N.J.A.C. 7:27-20.3(b)5]	None.	None.	None.
6	The space heater(s) shall be listed and tested by a nationally recognized laboratory in accordance with Underwriters Laboratories, Incorporated Standard for Safety UL 296A "Waste Oil-Burning Air-Heating Appliances" or Canadian Standards Association-CSA Standard B140.4-1974 (R1991)-Oil-Fired Warm Air Furnaces and FBL Notice Number 72-Requirements for Appliances Burning Used Oil in an Atomized Burner and listed. [N.J.A.C. 7:27-20.3(b)6]	None.	Other: Maintain a listing provided by the manufacturer of the space heaters. [N.J.A.C. 7:27-20.3(b)6][N.J.A.C. 7:27-20.3(b)6].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The Registrant shall adjust the combustion process of the used oil space heater(s) within 24 operating hours after startup and annually thereafter as follows:</p> <p>(A) Adjusting the air-to-fuel ratio to the manufacturer's recommended standards and ensuring that it is correctly calibrated and functioning properly;</p> <p>(B) Inspecting the used oil space heater(s) and cleaning or replacing any components of the space heater as necessary to minimize total emissions of carbon monoxide (CO);</p> <p>(C)(i) Taking an exhaust stream sample and analyzing it for CO and oxygen. This sampling and analysis may be done with a portable monitor. The results of the sampling and analysis shall ensure that the CO emissions after adjustment pursuant to (A) and (B) above are no more than 100 parts per million by volume, dry basis, hourly average, corrected to seven percent oxygen (ppmvd@7%O<sub>2</sub>).</p> <p>(C)(ii) If an exhaust stream sample exceeds the CO standard of 100 ppmvd@7%O<sub>2</sub>, the used oil space heater(s) shall not be operated, except for adjustment purposes, until the Registrant corrects any mechanical problems, readjusts the space heater, and the space heater has been demonstrated to meet the carbon monoxide standard of no more than 100 ppmvd@7%O<sub>2</sub>; and</p> <p>(D) Ensuring the exhaust emissions at the stack do not contain visible particulate emissions.</p> <p>[N.J.A.C. 7:27-20.3(b)8]</p>	<p>Monitored by periodic emission monitoring at the approved frequency, based on a 1 hour block average. The approved frequency shall be within 24 hours of start-up and annually thereafter. The Carbon Monoxide (CO) testing equipment (portable instrument) shall be capable of measuring and recording the in-stack concentrations of CO, over a range of 0 to 500 parts per million by volume, dry basis (ppmvd) with an accuracy of plus/minus 5% of the reading when measuring 100 ppmvd. Testing for less than one hour is permitted if the CO reading is no more than 100 ppmvd@7%O<sub>2</sub> for the first five consecutive minutes of operation. [N.J.A.C. 7:27-20.3(b)8]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record the manufacturer and model number of the portable monitor used for the CO and oxygen measurements, all adjustments made to the space heater, all parts replaced or cleaned, all carbon monoxide and oxygen readings, the determination of the presence of visible emissions, and the dates of each adjustment. [N.J.A.C. 7:27-20.3(b)8]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>The Registrant shall not use the equipment in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for a period of no more than 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-20.3(b)10]</p>	<p>Monitored by visual determination at the approved frequency, based on any consecutive 30-minute period. The approved frequency shall be within 24 hours of start-up and annually thereafter. Also, the stack shall be monitored at any time that the Registrant becomes aware that there exists the potential for a violation of this standard. If visible emissions are observed refer to operator manual for corrective measures and record the corrective action. The space heater(s) shall not be operated, except for adjustment purposes, until the owner or operator corrects any mechanical problems and readjusts the air-to-fuel ratio, if necessary, and the space heater meets the no visible emission standard. [N.J.A.C. 7:27-20.3(b)8iv] and [N.J.A.C. 7:27-20.3(b)10]. [N.J.A.C. 7:27-20.3(b)10]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record time of observation of visible emissions and record any corrective action taken. [N.J.A.C. 7:27-20.3(b)15ii]</p>	<p>None.</p>
9	<p>The Registrant shall maintain oil filtering equipment in accordance with manufacturer's specifications. The Registrant shall not operate the used oil space heater without the oil filter installed and operating properly. [N.J.A.C. 7:27-20.3(b)13]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation, based on any consecutive 30-minute period. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
3	TSP <= 12.7 tons/yr. Maximum annual emissions rate,. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 12.7 tons/yr. Maximum annual emissions rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 60.4 tons/yr. Maximum annual fugitive emissions rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 18.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 38.3 tons/yr. Maximum annual emissions rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 128 tons/yr. Maximum annual emissions rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 14.8 tons/yr. Maximum annual emissions rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Methane <= 4,968 tons/yr Maximum annual Source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Benzene <= 0.337 tons/yr. Maximum annual fugitive emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	H2S: Ambient air concentration at the property's fenceline [N.J.A.C. 7:27-22.16(a)]	<p>Other:</p> <p>For H2S&lt;30 ppbv:</p> <ol style="list-style-type: none"> <li>1. Monitored by Department-approved periodic emission monitoring system once per operating day to obtain a 30-minute average (5 minute block basis) reading.</li> <li>2. Monitoring shall be performed downwind of the landfill at the property's fenceline.</li> <li>3. Monitoring frequency may be reduced to once per week, after each daily 30-minute average result for an operating week shows H2S &lt;30 ppbv.</li> <li>4. Monitoring frequency may be reduced to once per quarter, after each weekly 30-minute average result for two months shows H2S &lt; 30 ppbv.</li> </ol> <p>For H2S &gt;= 30 ppbv:</p> <ol style="list-style-type: none"> <li>1. If any weekly or quarterly 30-minute average monitoring result shows H2S&gt;= 30 ppbv or upon request of the Department, the frequency shall be reverted to daily monitoring.</li> <li>2. If three consecutive daily 30-minute average monitoring results show H2S&gt;= 30 ppbv, an Odor Minimization Plan shall be submitted to the Department for review and approval.[N.J.A.C. 7:27-22.16(o)].</li> </ol>	H2S: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record Date, Time, Name of Persons conducting monitoring, Wind Speed, Wind Direction, Location of Measurement and H2S concentrations. [N.J.A.C. 7:27-22.16(o)]	<p>Submit an equipment protocol: Within 30 days from the date of the approved permit (BOP140001), submit a H2S periodic emissions monitoring protocol to the Bureau of Air Monitoring, 401 E. State Street, P.O. Box 420, Mail Code 401-07H, Trenton, NJ 08625-0420, for review and approval. The applicant shall begin the H2S periodic emissions monitoring within 90 days of protocol approval by the Department.</p> <p>The applicant shall call the Department Hotline at 1-(877)-WARNDP during the following events,</p> <ol style="list-style-type: none"> <li>1. Within 3 working days of every monitoring frequency change,</li> <li>2. If H2S concentration at the fenceline is &gt;= 30 ppbv. [N.J.A.C. 7:27-22.16(o)]</li> </ol>
13	H2S: Odor Minimization Plan, if applicable (See reference for H2S ambient air concentration at the property's fenceline). [N.J.A.C. 7:27-22.16(a)]	None.	None.	<p>Submit a plan: As per the approved schedule. Within 30 days of non compliance with the applicable requirement, submit a modification application including an Odor Minimization Plan which shall include but is not limited to the following.</p> <ol style="list-style-type: none"> <li>1. Best management practices to reduce odors</li> <li>2. Review of waste accepted.</li> <li>3. Feasibility of odor control</li> </ol> <p>[N.J.A.C. 7:27-22.16(o)]</p>
14	SO2 <= 17.5 lb/hr Allowable Emission for Sulfur Compounds, applies to CD1 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	SO2 <= 35 lb/hr Allowable emission rate at any instant. Applies to CD 1. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
16	SO2 <= 19 lb/hr Allowable Emission for Sulfur Compounds, applies to CD 3 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
17	SO2 <= 38 lb/hr Allowable emission rate at any instant. Applies to CD3. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
18	SO2 <= 11 lb/hr Allowable Emission for Sulfur Compounds, applies to CD 8 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
19	SO2 <= 22 lb/hr Allowable emission rate at any instant. Applies to CD8. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
20	Any flare in use at a major VOC facility after May 31, 1995, shall: 1. Have been designed to reduce the concentration of VOC from the source operation by no less than 95 percent; 2. Have been installed in accordance with the specifications provided by the manufacturer of the flare; and 3. Be operated and maintained in accordance with the specifications provided by the manufacturer of the flare. [N.J.A.C. 7:27-16.13(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator shall inspect the flare before May 1 annually to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually The owner or operator shall record the following in a permanently bound log book at the conclusion of each inspection: (1) name of person conducting the inspection; (2) date on which the inspection was conducted; (3) an entry indicating which flare was inspected; (4) any changes or adjustments made to the flare as a result of the inspection; and (5) a statement stating that the flare is currently being operated in compliance with the manufacturer's specifications. . [N.J.A.C. 7:27-16.13(c)]	None.
22	Minimum VOC Destruction and Removal Efficiency $\geq 98\%$ This requirement shall apply to the flares CD1 and CD3. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
23	Minimum VOC Destruction and Removal Efficiency $\leq 95\%$ This requirement shall apply to the CD8 flare only. based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
24	Total Landfill Design Capacity = 11,172,396 Mg [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
25	<p>Minimum Operating Temperature at the Exit of the Combustion Section <math>\geq</math> 1,500 degrees F The flare shall be designed to operate at no less than the minimum operating temperature. The above requirements shall apply to both flares CD1 and CD3. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Minimum Operating Temperature at the Exit of the Combustion Section: Monitored by temperature instrument continuously, based on 6 minute blocks. The permittee shall install, operate and maintain an alarm or other operational warning system, properly shielded from direct contact with the flame. The warning system shall be designed to notify the operator at any time flare temperature is detected to be less than the permitted operating temperature. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]</p>	None.
26	<p>Minimum Operating Temperature at the Exit of the Combustion Section <math>\geq</math> 1,400 degrees F The flare shall be designed to operate at no less than the minimum operating temperature. The above requirements shall apply to the CD8 flare. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Other: Review of flare design specifications.[N.J.A.C. 7:27-22.16(e)].</p>	<p>Other: Maintain flare design specifications.[N.J.A.C. 7:27-22.16(e)].</p>	None.
27	<p>The permittee shall monitor the flare burners by a UV Scanner (CD1 and CD3) and Thermocouple (CD8) or any equivalent device to ensure the presence of a flame. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	Flowrate <= 900 ACFM Maximum Gas flow rate applying only to the (CD1) Flare. [N.J.A.C. 7:27-22.16(a)]	Other: The landfill gas flow rate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
29	Flowrate <= 2,700 ACFM Maximum Gas flow rate applying only to the (CD3) Flare. [N.J.A.C. 7:27-22.16(a)]	Other: The landfill gas flow rate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
30	Flowrate <= 1,200 ACFM Maximum Gas flow rate applying only to the (CD8) Flare. [N.J.A.C. 7:27-22.16(e)]	Other: The landfill gas flow rate to the open flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
31	Minimum Heat Content at BurnerTip >= 300 Btu/ft^3. Applies to the three flares (CD1, CD3 and CD8). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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32	Residence Time >= 1 seconds Maximum Residence Time and applies to CD1. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
33	Residence Time >= 0.6 seconds Maximum Residence Time and applies to CD3. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
34	Lower Heat Content of source gas >= 400 BTU/scf. Lower heat content applies to the flares CD1 CD3 and CD8. Based on significant modification application BOP110001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	The flare shall be equipped with an automatic shut-off of the flow of gas to the flare when flare combustion ceases and cannot be restarted by automatic re-light system. The flares shall also have a smokeless design. This requirement shall apply to three flares CD1, CD3 and CD8 [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
36	Auxiliary Fuel = Propane. The Department reserves the right to require that auxiliary fuel be added to the flares (CD1 and CD3 ) to ensure proper combustion, based on the analytical results of the landfill gas stream sampling. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
37	A flare retainer shall be installed on this stack for the purpose of reducing night glare, applies to CD8 only. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
38	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the appropriate Regional Office of the U.S. Environmental Protection Agency to the attention of the Director of the Division indicated in the list of EPA Regional Offices. [40 CFR 60.4(a)]	None.	None.	Submit a performance test protocol: As per the approved schedule. [40 CFR 60.4(a)]

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39	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the Regional Enforcement Office as required by 40 CFR 60. [40 CFR 60.4(b)]
40	A 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). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event submit notification to EPA Region II and the Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
41	Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Other: Maintain Readily Accessible records.[40 CFR 60.7(b)].	None.

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42	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.
43	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.
44	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 be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
45	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.

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46	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.
47	Compliance with NSPS standards specified in this permit, other than opacity, 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.
48	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.
49	The (CD8) flare shall be designed and operated in accordance with the parameters established in 40 CFR 60.18(c) through (f). [40 CFR 60.18(b)]	Other: The Permittee shall implement the monitoring requirements specified in 40 CFR 60.756(c).[40 CFR 60.756(c)].	None.	Submit a report: As per the approved schedule. The Permittee shall submit a semi-annual report on April 30 and October 31 of each year to the Department as specified in 40 CFR 60.757(f). [40 CFR 60.757]
50	The (CD8) Flare shall be operated with a flame present at all times. [40 CFR 60.18(c)(2)]	Other: Monitored by a thermocouple or any other equivalent device to detect the presence of a flame. Continuously when the flare is in operation.[40 CFR 60.18(c)(2)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. All periods of operation of the enclosed flare providing start-up time, shut down time, reason for operation and name of operator making the entry must be recorded. [N.J.A.C. 7:27-22.16(o)]	None.

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51	Net Heating Value of Gas Flared $\geq$ 200 BTU/scf. Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (applies to CD8) [40 CFR 60.18(c)(3)(ii)] and. [40 CFR 60.18(f)(3)]	None.	None.	None.
52	Exit Gas Velocity < 60 ft/sec. Applies to the CD8 flare. [40 CFR 60.18(c)(3)] &. [40 CFR 60.18(c)(4)(i)]	None.	None.	None.
53	Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices. (applies to CD8) [40 CFR 60.18(d)]	Other: Monitored by a thermocouple or any other equivalent device to detect the presence of a flame. Continuously when the flare is in operation.[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. All periods of operation of the enclosed flare providing start-up time, shut down time, reason for operation and name of operator making the entry must be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
54	Flares shall be operated at all times when emissions may be vented to them. [40 CFR 60.18(e)]	None.	None.	None.

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55	The owner or operator shall route all the collected gas to either: (1) an open flare designed and operated in accordance with the parameters established in 40 CFR 60.18; or (2) a control system designed and operated to reduce NMOC by 98 weight percent; or (3) an enclosed combustor designed and operated to reduce the outlet NMOC concentration to 20 ppmvd at 3% oxygen (as hexane), or less; or (4) a treatment system that processes the collected gas for subsequent sale or use. [All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 1, 2, or 3 above.] [40 CFR 60.752(b)(2)(iii)]	None.	Other: Except as provided in 40 CFR 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 40 CFR 60.758 (b)(1) through 40 CFR 60.758 (b)(4) of this section as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b)].	None.
56	Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.753], [40 CFR 60.755], [40 CFR 60.756] and [40 CFR 60.752(b)(2)(iv)]	None.	None.	None.
57	The owner or operator shall operate the collection system such that gas is collected from each area, cell, or group of cells in the landfill in which the solid waste has been in place for a period of (1) 5 years or more if active, or (2) 2 years or more if closed or at final grade. [40 CFR 60.753(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Keep for at least five years up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 CFR 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
58	<p>The owner or operator shall operate the collection system with negative pressure at each wellhead except under the following conditions: (1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire.; (2) Use of a geomembrane or synthetic cover.; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator. [40 CFR 60.753(b)]</p>	<p>Other: The owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly.[40 CFR 60.756(a)(1)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the gauge pressure in the gas collection header at each individual well. Also, the owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] &amp;. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. Instances of positive pressure in efforts to avoid a fire shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] &amp;. [40 CFR 60.755(a)(3)]</p>
59	<p>The owner or operator shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 deg C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. [40 CFR 60.753(c)]</p>	<p>Other: Monitoring shall occur monthly. The temperature shall be determined by a temperature instrument. The nitrogen level shall be determined using Method 3C. The oxygen shall be determined by an oxygen meter using Method 3A or 3C except that: (i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; and (v) The allowable sample bias, zero drift, and calibration drift are +/- 10 percent. [40 CFR 60.753(c)] &amp; [40 CFR 60.755(a)(5)] &amp;[40 CFR 60.756(a)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log the nitrogen or oxygen concentration, and temperature at each interior wellhead in the collection system. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule. If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. [40 CFR 60.755(a)(5)]</p>

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60	The owner or operator shall operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]	None.	None.	Comply with the requirement: As per the approved schedule. In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]
61	The owner or operator shall operate the control or treatment system at all times when the collected gas is routed to the system. [40 CFR 60.753(f)]	None.	None.	None.
62	If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b) or (c) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 60.753(g)]	None.	None.	Comply with the requirement: As per the approved schedule. If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b) or (c) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). [40 CFR 60.753(g)]

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63	For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 40 CFR 60.753(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. [40 CFR 60.755(a)(5)]	None.	None.	None.
64	The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e)]	None.	None.	None.
65	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater. [40 CFR 60.756(b)(1)]	Other: Monitored by temperature instrument measured at least every 15 minutes and averaged over the same time period of the performance test.[40 CFR 60.758(b)(2)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002). [40 CFR 60.758(c)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]

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66	<p>Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a gas flow rate measuring device that records flow to or bypass of the control device; or secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. The above requirements applied to the enclosed flares (CD1 and CD3). [40 CFR 60.756(b)(2)]</p>	<p>Monitored by gas flow rate instrument continuously recording the flow to the control device at least every 15 minutes; or by visual inspection of the seal or closure mechanism performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(b)(2)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002) or manual logging of visual inspections each month during operation. [40 CFR 60.756(b)(2)]</p>	<p>Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]</p>
67	<p>Each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:</p> <p>(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.</p> <p>(2) A device that records flow to or bypass of the flare. The owner or operator shall either:</p> <p>(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or</p> <p>(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. The above requirements applied to the candle flare (CD8). [40 CFR 60.756(c)(1)] and [40 CFR 60.756(c)(2)]</p>	<p>Monitored by gas flow rate instrument continuously recording the flow to the control device at least every 15 minutes; or by visual inspection of the seal or closure mechanism performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(c)(2)(i)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002) or manual logging of visual inspections each month during operation. [40 CFR 60.756(c)(2)]</p>	<p>Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]</p>

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68	<p>The owner or operator shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the actions specified in (i) through (v) in the Submittal/Action Requirement shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. [40 CFR 60.753(d)] &amp; [40 CFR 755(c)(4)] &amp; [40 CFR 60.756(f)]</p>	<p>Other: The owner or operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of appendix A of 40 CFR 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.[40 CFR 60.755(c)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The owner or operator shall log the methane concentration in the collection system. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in 40 CFR 60.755 (c)(4) (i) through 40 CFR 60.755(v) of this section shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d).</p> <p>(i) The location of each monitored exceedance shall be marked and the location recorded.</p> <p>(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.</p> <p>(iii) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in paragraph (v) of this section shall be taken, and no further monitoring of that location is required until the action specified in paragraph (v) has been taken. [40 CFR 60.755(c)(4)]</p>

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69	40 CFR 60.756(f) continued from above. [40 CFR 60.756(f)]	None.	None.	<p>Comply with the requirement: As per the approved schedule. 40 CFR 60.755(c)(4) continued.</p> <p>(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in paragraph (c)(4)(ii) or (iii) of this section shall be re-monitored 1 month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions specified in paragraph (c)(4)(iii) or (v) shall be taken.</p> <p>(v) For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.</p> <p>. [40 CFR 60.755(c)(4)]</p>
70	Each owner or operator subject to the requirements of this subpart is exempted from the requirements of 40 CFR 60.757(b)(1) and (2), after the installation of a collection and control system in compliance with 40 CFR 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with 40 CFR 60.753 and 40 CFR 60.755. [40 CFR 60.757(b)(3)]	None.	None.	None.

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71	Each owner or operator shall submit semiannual equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment. [40 CFR 60.757(e)]	None.	None.	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The equipment removal report shall contain all of the following items: (i) A copy of the closure report submitted in accordance with 40 CFR 60.757(d); (ii) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and (iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year. [40 CFR 60.757(e)]

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72	Each owner or operator shall submit semiannual reports to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c). [40 CFR 60.757(f)]	None.	None.	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. Submit a report every April 30 and October 31 for the preceding six months (the six month periods begin on April 1 and October 1). The semi-annual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
73	Each owner or operator shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. The following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f): (i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28 deg C below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. [40 CFR 60.758(c)(1)(i)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(c)(1)(i)].	None.
74	Each owner or operator shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under 40 CFR 60.756. [40 CFR 60.758(c)(2)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(c)(2)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
75	Each owner or operator shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. (1) Each owner or operator shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b). (2) Each owner or operator shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR 60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii). [40 CFR 60.758(d)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(d)].	None.
76	Each owner or operator shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(e)].	None.
77	The owner or operator of a designated facility having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters must comply with the requirements of 40 CFR 60.752(b) in addition to the applicable reporting and recordkeeping requirements specified in this subpart. [40 CFR 62.14353(b)]	None.	None.	None.

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Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
78	The owner or operator of a designated facility with a gas collection and control system used to comply with 40 CFR 62.14353(b) must comply with the operational standards in 40 CFR 60.753; the test procedures in 40 CFR 60.754(b) and (d); the compliance provisions in 40 CFR 60.755; and the monitoring provisions in 40 CFR 60.756. [40 CFR 62.14354(b)]	None.	None.	None.
79	The owner or operator of a designated facility must comply with the recordkeeping and reporting provisions listed in 40 CFR 60.757 and 40 CFR 60.758. [40 CFR 62.14355(a)]	None.	None.	None.
80	No owner or operator subject to the provisions of 40 CFR 63 must operate any affected source in violation of the requirements of 40 CFR 63. No owner or operator subject to the provisions of 40 CFR 63 shall fail to keep records, notify, report, or revise reports as required under 40 CFR 63. [40 CFR 63.4(a)]	None.	None.	None.
81	For equipment subject to MACT, no owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; and (2) the use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
82	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
83	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
84	For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.6(e)(1)(ii)]	None.	None.	Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(ii)]
85	The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard. [40 CFR 63.6(e)(3)(i)]	None.	Other: The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and make the plan available upon request for inspection. In addition, the owner or operator must maintain each previous version of the plan for a period of 5 years after the revision of the plan.[40 CFR 63.6(e)(3)(v)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
86	During periods of startup, shutdown, and malfunction, the owner or operator of an affected source must operate and maintain such source, including APC and monitoring equipment, in accordance with the procedures specified in the startup, shutdown and malfunction plan developed under paragraph 40 CFR 63.6(e)(3)(i). [40 CFR 63.6(e)(3)(ii)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
87	<p>When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator must keep records of these events as specified in 40 CFR 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(iii)]</p>	None.	<p>Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of:</p> <ul style="list-style-type: none"> <li>(i) The occurrence &amp; duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);</li> <li>(ii) The occurrence &amp; duration of each malfunction of the required air pollution control (APC) and monitoring equipment;</li> <li>(iii) All required maintenance performed on the APC and monitoring equipment;</li> <li>(iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan;</li> <li>(v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]</li> </ul>	<p>Submit a report: As per the approved schedule (semiannually). The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. The report shall be delivered by the 30th day following the end of each calendar half. Submit reports in April and October of each year. The report shall only be required if a startup, shutdown, or malfunction occurred during the reporting period and shall identify any instance where any action taken by an owner or operator during startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the affected source's startup, shutdown, or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard. [40 CFR 63.10(d)(5)(i)]</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
88	<p>If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator). [40 CFR 63.6(e)(3)(iv)]</p>	None.	<p>Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of:</p> <ul style="list-style-type: none"> <li>(i) The occurrence &amp; duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);</li> <li>(ii) The occurrence &amp; duration of each malfunction of the required air pollution control (APC) and monitoring equipment;</li> <li>(iii) All required maintenance performed on the APC and monitoring equipment;</li> <li>(iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan;</li> <li>(v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]</li> </ul>	<p>Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
89	If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event, the owner or operator of an affected source must revise the startup, shutdown, and malfunction plan of such a source within 45 days after the event. [40 CFR 63.6(e)(3)(viii)]	None.	None.	Submit a report: Upon occurrence of event. Each startup, shutdown, and malfunction plan revision must be reported in the semiannual report required by 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(viii)]
90	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
91	Existing affected sources and area sources must comply with the requirements in 40 CFR 63.1955(b) and 40 CFR 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later. [40 CFR 63.1945(f)]	None.	None.	None.
92	Demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected pursuant to 40 CFR 60.756(b)(1) [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.1960]	Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
93	The owner/operator must develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.1960]	None.	Other: Maintain a current copy of the Startup, Shutdown, and Malfunction Plan (SSM) on site. [40 CFR 63.1960] & [40 CFR 63.1980].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
94	<p>For the purposes of the landfill monitoring and Startup, Shutdown, and Malfunction Plan (SSM) requirements, deviations (as defined in 40 CFR 63.1990) include the items in paragraphs (a) through (c) of this section.</p> <p>(a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded.</p> <p>(b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period (refer to 40 CFR 63.1975) does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour.</p> <p>(c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site. [40 CFR 63.1965]</p>	None.	None.	<p>Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]</p>

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 Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
95	Each owner or operator shall submit reports every 6 months to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c). [40 CFR 60.757(f)] & [40 CFR 63.1980(a)]	None.	None.	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The biannual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)] &. [40 CFR 63.1980(a)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 and CD8)

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	TSP <= 2.9 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 2.9 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 4.24 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 8.75 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 29.2 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 3.37 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Methane <= 1,134.2 lb/hr Maximum Hourly fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.077 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS2 Landfill Gas Collection and Control System

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Flowrate <= 4,800 SCFM. Maximum flow from Gas Collection and Control System submittal to the EPA. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Vaccum <= -65 inches w.c. from Gas Collection and Control Submittal to the EPA. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U2 One 4.72 MMBTU/hr Greenhouse Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: No visible emissions, 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)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions $\leq$ 2.83 lb/hr Maximum emission limit, based on heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	NO <sub>x</sub> (Total) $\leq$ 2.45 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO $\leq$ 1.86 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO <sub>2</sub> $\leq$ 0.138 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Hours of Operation $\leq$ 4,380 hr/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Maximum Gross Heat Input $\leq$ 4.72 MMBTU/hr (LHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U2 One 4.72 MMBTU/hr Greenhouse Boiler

**Operating Scenario:** OS1 Greenhouse Boiler Burning Natural Gas

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.39 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.46 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Natural Gas Usage <= 20.3 MMft <sup>3</sup> /yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U2 One 4.72 MMBTU/hr Greenhouse Boiler

Operating Scenario: OS2 Greenhouse Boiler Burning Landfill Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.73 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.388 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	SO2 <= 0.063 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Other Gaseous Fuel Usage <= 37.6 MMft <sup>3</sup> /yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U7 One Kohler Emergency Generator with (ICE)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	Opacity: Monitored by visual determination annually, based on a 10 second rolling average. [N.J.A.C. 7:27-22.16(e)]	Opacity: Recordkeeping by manual logging of parameter annually. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27- 3.6]	None.
2	Particulate Emissions <= 1.49 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.
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
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.
6	The Emergency Generator as defined in N.J.A.C. 7:27-19.1 cannot be used for load shaving, peaking power production, or generation in an agreement with a utility energy assistance program. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The permittee shall record in either a permanent bound log book, or in readily accessible computer memories, each occurrence of start-up: date, duration of emergency generator operation and reason and the name of a person making the entry. All records shall be maintained on-site for a minimum of 5 years. [N.J.A.C. 7:27-22.16(e)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Generator fuel limited to natural gas, # 2 fuel oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>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,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>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]</li> </ol>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance:                         <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>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.</li> </ol> <p>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]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>This emergency generator shall not be used:</p> <p>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 <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	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.
11	VOC (Total) <= 0.003 tons/yr. Annual emission limit based on 100 permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 0.034 tons/yr. Annual emission limit based on 100 permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.007 tons/yr. Annual emission limit based on 100 permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U7 One Kohler Emergency Generator with (ICE)

Operating Scenario: OS1 Kohler Emergency Generator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.49 lb/hr. Based on 2.48 MMBTU/hr generator's heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.055 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.685 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.148 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 2.48 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U8 Co-composting Facility

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 22 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.49 tons/yr. Maximum annual emissions based on annual fuel usage. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.28 tons/yr. Maximum annual emissions based on annual fuel usage. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 4.12 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Propane <= 75,000 gallons per year for any 12 consecutive months, applicable to two heaters combined (E28 and E29). Fuel Usage limited to Liquid Propane Gas (LPG). [N.J.A.C. 7:27-22.16(a)]	Propane: Monitored by review of fuel delivery records per delivery, based on a consecutive 12 month period (rolling 1 month basis). Each heater is equipped with a dedicated propane storage tank permitted as insignificant source ISxx and ISzz. [N.J.A.C. 7:27-22.16(o)]	Propane: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation for each heater independently. Record the calculated liquid propane fuel consumption (Gallons) for any 12 consecutive months, computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Odor &lt;= 5 D/T at nearest receptor The D/T shall be reevaluated and revised by the Department every five (5) years if neighbors are closer to the facility than the nearest receptor used in the evaluation of the D/T indicated in this permit.</p> <p>Dilution Threshold Limit: D/T shall be the average of the D/T's of the two biofilters. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Odor: Monitored by odor threshold monitoring upon request of the Department. The Permittee shall use a protocol approved by EMS.</p> <p>In case of a verified odor complaint, the permittee shall evaluate the biofilter operating parameters, take corrective action on an expedited basis, and then conduct odor testing within 60 days of written notification from the Department of a verified odor complaint to confirm that the odor potential is still within the range of the initial tests (80-280 D/T).</p> <p>To avoid odor exceeding the range (80-280 D/T) from the media or biofilters, the plant shall replace the biofilters every 24 months to help ensure minimal odors.</p> <p>The odor testing program shall be conducted in accordance with sampling methodologies approved by EMS. Analyses of odor samples shall be performed in accordance with ASTM E679-91 (odor panel). All testing shall be conducted using methods approved by EMS. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Odor: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Keep results of all odor tests and records of biofilters media replacement. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Submit a report: Within 60 days of sampling to the Central Regional Office for review. [N.J.A.C. 7:27-22.16(a)]</p>
7	<p>Total Pathogens: Conduct ambient air monitoring study upon request of the Department. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Total Pathogens: Monitored by ambient pathogens monitoring upon request of the Department, based on an instantaneous determination. The ambient air monitoring study includes collection, analyses, and reporting of air concentrations of Aspergillus Fumigatus at, and in the vicinity of, the co-composting facility. The permittee shall not cause an increase in total pathogens emissions above the levels measured during initial testing. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Total Pathogens: Recordkeeping by certified lab analysis results upon occurrence of event. Records shall be maintained, from the date of each lab analysis. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
8	Maximum Waste Feed Rate <= 84 dry tons/day (at 30% solids). Each delivery of sludge shall be sampled and the sludge solid content determined. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a 1 month average. [N.J.A.C. 7:27-22.16(a)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The Permittee shall record the date, the tonnage in wet tons, the percent moisture and the tonnage in dry tons for each delivery. [N.J.A.C. 7:27-22.16(o)]	None.
9	Maximum Waste Feed Rate <= 30,660 tons/yr (at 30% solids). Each delivery of sludge shall be sampled and the sludge solid content determined. [N.J.A.C. 7:27-22.16(a)]	Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a monthly volume-weighted average. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The Permittee shall record the date, the tonnage in wet tons, the percent moisture and the tonnage in dry tons for each delivery, and annual total. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>The biofilter shall be operated at all times that materials are being processed in the Main Processing Building. The Main Processing Building (which consists of the Receiving Area, the Compost Processing Area and the Curing Area) shall be totally enclosed. A negative pressure shall be maintained in each area in the Main Processing Building to prevent potential fugitive emissions. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Other: If requested by the Department, and based on the detection and verification of odors emanating from the product storage area at the nearest offsite receptor, or based on the detection of other air contaminant emissions from this area, the Permittee shall control emissions from the product storage piles. Control measures may include, but are not limited to,</p> <ol style="list-style-type: none"> <li>1. Covering or enclosing the storage piles and venting all air emissions to a properly designed control device.</li> <li>2. In the case where all cells of the biofilter fail to operate and the Permittee fails to correct the problem within one (1) week, the Permittee shall take the following steps:                             <ol style="list-style-type: none"> <li>a) remove readily identifiable odorous materials;</li> <li>b) remove all existing precompost feed stock to be disposed of through an alternative method;</li> <li>c) remove the active compost piles to be disposed of through an alternative method;</li> </ol> </li> <li>3. Exceedance of any biofilter operating parameter shall be immediately investigated and corrected. Corrective actions shall involve partial or total replacement of biofilter media, pH and/or moisture adjustment of the media, or other action which would result in the proper operation of the biofilter.[N.J.A.C. 7:27-22.16(o)].</li> </ol>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records shall be maintained, for at least five years from the date of each, investigation, testing, and corrective action taken. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
11	<p>Minimum VOC Destruction and Removal Efficiency <math>\geq 90\%</math> This requirement shall apply to both biofilters (CD4). [N.J.A.C. 7:27-22.16(e)]</p>	<p>None.</p>	<p>Other: Maintain Manufacturer specifications on site.[N.J.A.C. 7:27-22.16(a)].</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U8 Co-composting Facility  
**Operating Scenario:** OS1 Co-Composting Facility

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>VOC (Total) &lt;= 7.5 lb/hr based on 15% by weight of process emissions. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [C.7:27-16.16(c)] &amp; [N.J.A.C. 7:27-16.16(d)]</p>	<p>Other: Monitored by calculations and/or analysis of the source operations for process in which the source operation is used.[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. The maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used for each process, or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions.</li> </ol> <p>Maintain the required records for a period of no less than five years and make those records available upon the request of the Department or EPA, or any duly authorized representative of the department or EPA. [N.J.A.C. 7:27-16.16(g)1] &amp; [N.J.A.C. 7:27-16.22(a)].</p>	<p>None.</p>

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Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
2	VOC (Total) <= 5 lb/hr Maximum hourly emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Sulfur, Total Reduced <= 0.94 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Sulfur, Total Reduced: Monitored by periodic emission monitoring upon request of the Department, based on the average of three 1-hour tests. [N.J.A.C. 7:27-22.16(o)]	Sulfur, Total Reduced: 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)]	None.
4	Bed Operating Temperature >= 50 and Bed Operating Temperature <= 120 degrees F. [N.J.A.C. 7:27-22.16(e)]	Bed Operating Temperature: Monitored by temperature instrument each week during operation, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Bed Operating Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Bed Operating pH >= 5 and Bed Operating pH <= 9 standard units. [N.J.A.C. 7:27-22.16(e)]	Bed Operating pH: Monitored by pH instrument once every 2 weeks, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Bed Operating pH: Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	None.
6	Pressure Drop >= 2 and Pressure Drop <= 14 inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop: Monitored by pressure drop instrument each week during operation, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [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
7	Bed Moisture >= 40 and Bed Moisture <= 80 %. [N.J.A.C. 7:27-22.16(e)]	Bed Moisture: Monitored by grab sampling each week during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Bed Moisture: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U8 Co-composting Facility

Operating Scenario: OS3 4.5 MMBTU/hr Heater No. 3 - Co-Composting Facility , OS4 4.5 MMBTU/hr Heater No. 4 - Co-Composting Facility

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 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)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Particulate Emissions <= 2.7 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of each source E28 and E29. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
3	NOx (Total) <= 0.64 lb/hr. Maximum hourly emissions, applicable to each heater, based on AP42 Factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.37 lb/hr. Maximum hourly emissions, applicable to each heater, based on AP42 Factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U9 One Dust - Powdered Activated Carbon Silo

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr. Particulate emission limit based on 99% efficiency of collection. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <= 20 %. Opacity greater than 20%, exclusive of visible condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C.7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	TSP <= 0.0004 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.0004 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Powder Activated Carbon: Limited to virgin Powdered Activated Carbon. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by Production records.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by maintaining Production records.[N.J.A.C. 7:27-22.16(o)].	None.
6	Hours of Operation <= 6 hr/yr. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor once per calendar day during operation. [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 once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Material Transferred <= 42,120 lb/yr. [N.J.A.C. 7:27-22.16(e)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Pressure Drop Across the Baghouse >= 4 and Pressure Drop Across the Baghouse <= 17 inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure measurement device continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
9	Inlet Temperature to Baghouse >= 34 degrees F. [N.J.A.C. 7:27-22.16(e)]	Inlet Temperature to Baghouse: Monitored by temperature instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Inlet Temperature to Baghouse: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
10	Particulates Control Efficiency >= 98 %. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	The permittee shall conduct bag cleaning and replacement on a schedule necessary to achieve the required particulate removal efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record each instance of bag cleaning and bag replacement. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U9 One Dust - Powdered Activated Carbon Silo

**Operating Scenario:** OS1 Dust-Powdered Activated Carbon Silo

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	TSP <= 0.125 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.125 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Total Production Rate <= 7,000 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Total Production Rate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 One Leachate Treatment System

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for three minutes in any consecutive thirty minute period. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	VOC (Total) <= 2.63 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas (Range A). For each source. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-22.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control. [N.J.A.C. 7:27-16.22(a)] and[N.J.A.C. 7:27-16.16(g)1].	None.

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 Facility Specific Requirements

Emission Unit: U11 One Leachate Treatment System

Operating Scenario: OS1 Leachate Surge Tank (200,000 gallons) with Vapor Pressure <= 0.02 psia, OS2 Leachate Storage Tank (200,000 gal) with Vapor Pressure <= 0.02 psia

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank Content: Landfill Leachate and other waste water generated at the facility with vapor pressure, excluding the vapor pressure of water, of < 0.02psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emissions of all contaminants are below the respective reporting thresholds per N.J.A.C.7:27-22, Appendix Table A and B based on AP42 Water9. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Waste Processing Rate <= 1,000 gal/min. Maximum design filling rate,. [N.J.A.C. 7:27-22.16(e)]	Other: Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
4	Total Material Transferred <= 94.9 MMgal/yr. Maximum annual combined throughput. Applies to OS1 (E5),OS2 (E4) and U19 (OS1, E19). [N.J.A.C. 7:27-22.16(a)]	Other: Total Material Transferred: The total material transferred from Leachate Storage Tank #1, #2 and #3 shall be monitored using scale house records. The owner and operator shall calculate the throughput for all leachate storage tanks using the scale house records and process records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the total monthly material transferred for all three tanks and the total year to date material transferred. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall perform a leachate analysis at trucking station for VOC, Vinyl Chloride, Ethyl Benzene and Benzene. [N.J.A.C. 7:27-22.16(e)]	Monitored by grab sampling annually and obtain results from a certified laboratory, applies to OS1 and OS2 combined.. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by certified lab analysis results annually. [N.J.A.C. 7:27-22.16(e)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 One Leachate Treatment System

**Operating Scenario:** OS3 Aeration Flow Equalization Tank (30,000 gallons) with Vapor pressure <= 0.02 psia

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	VOC (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum Waste Feed Rate: 35gallons/min Maximum Design Fill Rate. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
3	Maximum Waste Feed Rate <= 50,000 gallons per day. Estimated Maximum Daily Throughput,. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the gallons per month. [N.J.A.C. 7:27-22.16(e)]	None.
4	Raw Material Limited to Leachate and Sanitary waste with up to <=0.36 PSIA. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 One Leachate Treatment System

**Operating Scenario:** OS4 Main Aeration Tank (190,700 gallons) with Vapor pressure <= 0.02 psia

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.2 lb/hr. Maximum hourly emission rate,. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	The minimum amount of virgin activated carbon added to the main aeration tank (OS4) shall be 25 lb/day. [N.J.A.C. 7:27-22.16(e)]	Other: Production Records.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter daily. Records of the ammount of carbon used shall be kept for a minimum of three years after collection and shall be made available to representatives of the Department upon request. [N.J.A.C. 7:27-22.16(e)]	None.
3	The carbon should not be disposed of in a land fill, It must be disposed of in a manner which prevents the release of contaminants. Applies to OS4, [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Waste Feed Rate < 35 gal/min. Maximum filling rate,. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
5	Maximum Waste Feed Rate <= 50,000 gallons per day. Maximum Daily Throughput with up to 0.36 PSIA. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the gallons per month. [N.J.A.C. 7:27-22.16(o)]	None.
6	Raw Material: Treated waste water and activated powder carbon. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 One Leachate Treatment System

**Operating Scenario:** OS5 Secondary Aeration Tank (35,800 gallons) with Vapor pressure <= 0.02 psia

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	VOC (Total) <= 0.2 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum Waste Feed Rate < 35 gal/min. Maximum filling rate,. [N.J.A.C. 7:27-22.16(e)]	Other: Plant effluent flow meter shall be used to monitor the flow through the tanks.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
3	Maximum Waste Feed Rate <= 50,000 gallons per day. Maximum daily throughput,. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the gallons per month. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U11 One Leachate Treatment System

**Operating Scenario:** OS6 Aerated Sludge Tank (35,500 gallons) with Vapor pressure <= 0.02 psia

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all contaminants are below the respective reporting thresholds per N.J.A.C.7:27-22, Appendix Table A and B based on AP42 Water9. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Maximum Waste Feed Rate < 50 gal/min. Maximum filling rate. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
3	Maximum Waste Feed Rate <= 10.22 MMgal/yr Maximum Annual Throughput. [N.J.A.C. 7:27-22.16(e)]	Other: Maximum Waste Feed Rate monitored by the level of sludge at the V-notch weir while pumping and the pumping time will be used to determine a daily input to the tank.[N.J.A.C. 7:27-22.16(o)].	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter daily. Pumping time will be used to determine a daily input to the tank. [N.J.A.C. 7:27-22.16(o)]	None.
4	Raw Material: Treated waste water and activated powder carbon with up to 0.36 PSIA. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U19 One Leachate Storage Tank No. 3 ( 1 million gallon) with Vapor pressure <= 0.02 psia

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank Content: Landfill Leachate and other waste water generated at the facility with vapor pressure, excluding the vapor pressure of water, of < 0.02psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Tank capacity shall not exceed 1,000,000 gallons and it's content shall be limited to Landfill Leachate and other wastewater generated at the facility with a vapor pressure, excluding the vapor pressure of water, of < 0.02 psia at standard conditions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 94.9 MMgal/yr. Maximum annual combined throughput based on operating permit modificiatio application. Applies to [U11-OS1 (E5),OS2 (E4)] and U19 (OS1, E19). [N.J.A.C. 7:27-22.16(a)]	Other: Total Material Transferred: The total material transferred from Leachate Storage Tank #1, #2 and #3 shall be monitored using scale house records. The owner and operator shall calculate the throughput for all leachate storage tanks using the scale house records and process records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the total monthly material transferred for all three tanks and the total year to date material transferred. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U20 Four (4) Micro-Turbines

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % Exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A listed in U1. [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].	Submit a report: 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]
3	Maximum Gross Heat Input <= 0.43 MMBTU/hr (HHV). Maximum gross input applies to each Micro Turbine. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U20 Four (4) Micro-Turbines

**Operating Scenario:** OS1 Greenhouse Microturbine 1-Landfill Gas, OS2 Greenhouse Microturbine 2-Landfill Gas, OS3 Greenhouse Microturbine 3-Landfill Gas, OS4 Greenhouse Microturbine 4-Landfill Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate <= 6.73 MMft <sup>3</sup> /yr. Maximum yearly landfill gas flow rate based 564 Btu/scf heating value from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U20 Four (4) Micro-Turbines

**Operating Scenario:** OS5 Greenhouse Microturbine 1-Natural Gas, OS6 Greenhouse Microturbine 2-Natural Gas, OS7 Greenhouse Microturbine 3-Natural Gas, OS8 Greenhouse Microturbine 4-Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate <= 3.72 MMft <sup>3</sup> /yr Maximum yearly gas flow rate and Fuel limited to Natural Gas gas with 1020 Btu/scf heating value. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U21 One (1) Microturbine 5

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 2.1 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.
3	VOC (Total) <= 0.876 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 2.5 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
5	CO <= 1.71 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	SO2 <= 0.263 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	TSP <= 0.35 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	PM-10 (Total) <= 0.35 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
9	Maximum Gross Heat Input <= 3.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 0.43 MMBTU/hr (HHV). Maximum gross input applies to each Micro Turbine. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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 Facility Specific Requirements

Emission Unit: U21 One (1) Microturbine 5

Operating Scenario: OS2 Microturbine No 5 Landfill Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 5 lb/hr in any 60-minute period. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
2	SO2 <= 10 lb/hr at any instant. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
3	VOC (Total) <= 0.21 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.20 lb/MW-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.57 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.56 lb/MW-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.39 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.38 lb/MW-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.06 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.059 lb/MW-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [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
7	TSP <= 0.08 lb/hr. Maximum hourly emission limit from operating permit modification application based on AP42 Emission Factors (22 lb/MMscf Methane), maximum gross rated heat input (3.5 MMBtu/hr) and a heating value of 480 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.08 lb/hr. Maximum hourly emission limit from operating permit modification application based on AP42 Emission Factors (22 lb/MMscf Methane), maximum gross rated heat input (3.5 MMBtu/hr) and a heating value of 480 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Landfill gas usage <= 63.88 MMft <sup>3</sup> /yr. Maximum annual landfill gas usage. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>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, CO, NMOC, VOC, and SO2 as specified in the compliance plan for OS11, OS12, OS13, OS14, OS15, and OS16.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx, CO, NMOC, VOC, and SO2, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.16(o)]</p>
2	<p>The owner or operator must notify the REO within 30 days after the startup of the source. Startup shall be defined pursuant to 40 CFR 63 Subpart A. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>Submit notification: As per the approved schedule. Submit a written notification to the REO within 30 days after startup. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Opacity <= 20 %. 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 condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
4	Particulate Emissions <= 6.5 lb/hr. Maximum allowable emission rate based on rated heat input rate for each engine. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
5	CO <= 500 ppmvd @ 15% O2. Maximum allowable emission rate. [N.J.A.C. 7:27-16.10(b)]	None.	None.	None.
6	The owner or operator shall adjust the engine's combustion process in accordance with the manufacturer's recommended and maintenance schedules.[N.J.A.C. 7:27-16.10(e)2], [N.J.A.C. 7:27-19.8(f)2] and. [N.J.A.C. 7:27-19.16(g)]	Other: Manufacturer's recommended 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 manufacturer's specified frequency The owner or operator shall record the following: 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	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. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.
8	VOC (Total) <= 14.9 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 56.2 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 249.85 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO2 <= 33.01 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 16 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 16 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 16 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [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
15	KW (total) <= 59,553,000 KW-hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Maximum Gross Heat Input <= 13.58 MMBTU/hr (HHV) (1425kW) from preconstruction permit. [N.J.A.C. 7:27-22.16(o)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
17	The owner or operator shall operate the gas conditioning system (chiller and filters) in conjunction with either the venture siloxane removal system and/or the temperature swing adsorber (TSA). This unit is not controlling emissions from the engines. During desorption of either the venture and/or TSA siloxane removal systems, the process of gases shall be vented to Flare No. 6 (CD9). Based on significant modification BOP100001. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. The permittee shall monitor the hours of operation and configuration of the venture system and the TSA operation continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-21.16(o)]	None.
18	The TSA unit will not operate as a primary gas conditioning system for more than 4,380 hours per year without a carbon change out. Based on significant modification BOP100001. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. The permittee shall monitor the hours of operation in which the TSA operates as a primary gas conditioning system. [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. [N.J.A.C. 7:27-22.16(o)]	None.
19	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
22	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
23	The owner or operator of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, or reconstruct a major source that becomes a major-emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be submitted before start-up but not later than 60 days after the effective date of a relevant standard. [40 CFR 63.5(d)(1)(i)]
24	The owner or operator of a new or reconstructed affected source must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source: notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent 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 a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	<p>The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. The owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]</p>	<p>None.</p>	<p>Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part 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)(1)].</p>	<p>Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]</p>

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**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System  
**Operating Scenario:** OS11 Engine # 1 firing landfill gas, Normal Operation, OS12 Engine # 2 firing landfill gas, Normal Operation, OS13 Engine # 3 firing landfill gas, Normal Operation, OS14 Engine # 4 firing landfill gas, Normal Operation, OS15 Engine # 5 firing landfill gas, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 8.15 lb/hr. Maximum Allowable Emission Rate, based on Heat Input Rate. [N.J.A.C. 7:27- 4.a]	None.	None.	None.
2	VOC (Total) <= 1.77 lb/hr. [N.J.A.C. 7:27-22.16(e)]	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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	NOx (Total) <= 2.66 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>NOx (Total) &lt;= 2.66 lb/hr. [N.J.A.C. 7:27-22.16(e)]</p>	<p>NOx (Total): Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
5	<p>NOx (Total) &lt;= 1.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(e)1]</p>	<p>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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]</p>

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
6	NOx (Total) <= 0.6 grams/brake horsepower-hour. [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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 11.95 lb/hr. [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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit renewal. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 11.95 lb/hr. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable.</p> <p>. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	CO <= 2.7 grams/brake horsepower-hour. [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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit renewal. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 339 ppm @ 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 339 ppm @ 15% O2. [N.J.A.C. 7:27-22.16(e)]	<p>CO: Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable.</p> <p>[N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	SO2 <= 1.52 lb/hr. [N.J.A.C. 7:27-22.16(e)]	SO2: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results upon occurrence of event. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
13	TSP <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	PM-10 (Total) <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Non-Methane Organic Compounds (NMOC) <= 20 ppmvd at 3% O2 as Hexane. Maximum hourly emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
17	Landfill gas usage <= 282 MMft <sup>3</sup> /yr. Maximum fuel usage for each engine. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel usage totalizing meter continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS16 Pretreatment Devices TSA, Venture off gas & Abutec flare

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions.                      (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;                      (2) Emission Point number;                      (3) Operational status of equipment;                      (4) Observed results and conclusions;                      (5) Description of corrective action taken if needed;                      (6) Date and time opacity problem was solved, if applicable;                      (7) N.J.A.C. 7:27B-2 results if conducted; and                      (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
3	<p>Any flare in use at a major VOC facility after May 31, 1995, shall: 1. Have been designed to reduce the concentration of VOC from the source operation by no less than 95 percent; 2. Have been installed in accordance with the specifications provided by the manufacturer of the flare; and 3. Be operated and maintained in accordance with the manufacturer of the flare, and Burlington County Resource Recovery Complex operations. [N.J.A.C. 7:27-16.13(a)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>The owner or operator of any flare shall submit in writing, to the Assistant Director of Air and Environmental Quality Enforcement, Division of Enforcement Field Operations, Department of Environmental Protection, P.O. Box 420, Mail Code 401-02 Trenton, NJ 08625-0420, the following information and shall be certified in accordance with N.J.A.C. 7:27-1.39. 1. The name of the owner and operator of the flare; 2. The make, model and serial number of the flare; 3. A copy of the manufacturer's specification of the performance standards for the flare; 4. A statement that the flare was installed in accordance with the manufacturer's specifications; 5. A statement that the flare is being operated and maintained in accordance with the manufacturer's specifications; and 6. A statement that the flare will continue to be operated in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(b)]</p>	None.	None.	None.
5	<p>The owner or operator shall inspect the flare before May 1 of each year to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record the following in a permanently bound log book at the conclusion of each inspection: (1) name of person conducting the inspection; (2) date on which the inspection was conducted; (3) an entry indicating which flare was inspected; (4) any changes or adjustments made to the flare as a result of the inspection; and (5) a statement stating that the flare is currently being operated in compliance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(c)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Adjusting: When any provision of this subchapter requires the adjustment of a combustion process for any equipment or source operation, other than stationary combustion turbines and reciprocating engines, the owner or operator of the equipment or source operation shall:</p> <p>1.0 Inspect the burner, and clean or replace any components of the burner as necessary;</p> <p>2.0 Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications;</p> <p>3.0 Inspect the system controlling the air to fuel ratio, and ensure that it is correctly calibrated and functioning properly;</p> <p>4.0 Minimize total emissions of NOx and CO consistent with the manufacturer's specifications;</p> <p>5.0 Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and</p> <p>6.0 Convert the emission values of the NOx, CO and O2 concentrations measured pursuant to (a)5 above to pounds per million BTU (lb/MM BTU) according to the following formula:  <math display="block">\text{lb/MM BTU} = \text{ppmvd} \times \text{MW} \times \text{F dry factor} \times \text{O2 correction factor} \quad 387,000,000</math>                     Where:                      ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO                      MW is the Molecular Weight for:                      NOx = 46 lb/lb-mole; CO = 28 lb/lb-mole                      F dry factor for: Natural gas = 8,710                      dscf/MM BTU - Residual or fuel oil = 9,190                      dscf/MM BTU - O2 correction factor:  <math display="block">(20.9\%) \quad (20.9\% - \text{O2 measured}) - \text{O2 measured}</math>                     is percent oxygen on a dry basis.                      [N.J.A.C. 7:27-19.16(a)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event 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:</p> <p>1.0 The date of the adjustment and the times at which it began and ended;</p> <p>2.0 The name, title and affiliation of the person who made the adjustment;</p> <p>3.0 The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made;</p> <p>4.0 The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured pursuant to (a)5 above;</p> <p>5.0 A description of any corrective action taken;</p> <p>6.0 Results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MM BTU);</p> <p>7.0 The type and amount of fuel used over the 12 months prior to the annual adjustment; and</p> <p>8.0 Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the equipment or source operation.                      . [N.J.A.C. 7:27-19.16(b)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NOx (Total) <= 0.403 lb/hr. Maximum emission rate, based on stack test. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the 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 test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	NOx (Total) <= 0.08 lb/MMBTU. Maximum emission rate, based on stack test. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. See the stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 0.756 lb/hr. Maximum emission rate, based on stack test. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit expiration date. See stack test details in the 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 0.15 lb/MMBTU. Maximum emission rate, based on stack test. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results prior to permit expiration date. See the stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.571 lb/hr. Maximum emission rate, based on stack test. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results prior to permit expiration date. See stack test details in the 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 test details in the OS Summary. [N.J.A.C. 7:27-21.16(o)]
12	TSP <= 0.202 lb/hr. Maximum hourly emission rate, based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.202 lb/hr. Maximum hourly emission rate, based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.202 lb/hr. [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
15	VOC Destruction and Removal Efficiency of Ventilation System $\geq$ 98 %. Minimum VOC Destruction and Removal Efficiency. This requirement shall apply to the flare CD9. [N.J.A.C. 7:27-22.16(a)]	Other: Minimum destruction efficiency based on manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	None.
16	Temperature at Exit of Combustion Chamber $\geq$ 1,500 degrees F. Minimum operating temperature. The above temperature requirements shall apply to CD9 at all times during normal operations. [N.J.A.C. 7:27-22.16(a)]	Temperature at Exit of Combustion Chamber: Monitored by temperature instrument continuously. The permittee shall install, operate and maintain an alarm or other operational warning system, properly shielded from direct contact with the flame. The warning system shall be designed to notify the operator at any time flare temperature is detected to be less than the permitted operating temperature. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately midscale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Exit of Combustion Chamber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record one data point every 15 minutes. [N.J.A.C. 7:27-22.16(o)]	None.
17	The permittee shall monitor the flare burners by a UV Scanner for CD9 or any equivalent device to ensure the presence of a flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Flowrate $\leq$ 150 SCFM. Gas flowrate applying to the Flare (CD9). The above flowrate requirement shall apply to CD9 at all times during normal operations. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by flue gas flow rate instrument continuously. The landfill gas flowrate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in SCFM. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record one data point every 15 minutes. [N.J.A.C. 7:27-22.16(o)]	None.

U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temp

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Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
19	Minimum Heat Content at BurnerTip >= 400 Btu/ft^3. Applies to the CD9 only. Based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Residence Time of the Gases in the Afterburner <= 0.7 seconds. Maximum Residence Time and applies to CD9. Based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Maximum annual Landfill Gas Usage <= 45 MMSCF per any twelve consecutive month period. [N.J.A.C. 7:27-22.16(a)]	Monitored by flue gas flow rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall sum the landfill gas usage for the month with the landfill gas usage of the previous eleventh months. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
22	The flare CD9 shall be equipped with an automatic shut-off of the flow of gas to the flare when flare combustion ceases and can be restarted by automatic re-light system. The flare shall also have a smokeless design. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Auxiliary Fuel = Propane. The Department reserves the right to require that auxiliary fuel be added to the flare (CD9 ) to ensure proper combustion, based on the analytical results of the landfill gas stream sampling. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the appropriate Regional Office of the U.S. Environmental Protection Agency to the attention of the Director of the Division indicated in the list of EPA Regional Offices. [40 CFR 60.4(a)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
25	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	None.
26	A 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 40CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	None.
27	Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	None.	None.
28	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.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	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.
30	The owner or operator shall route all the collected gas to an enclosed combustor designed and operated to reduce the outlet NMOC concentration to 20 ppmvd at 3% oxygen (as hexane), or less; [All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirement above.] [40 CFR 60.752(b)(iii)]	Other: Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.752(b)(2)(iv)], [40 CFR 60.753], [40 CFR 60.755] and [40 CFR 60.756].	None.	None.
31	Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]	None.	None.	None.
32	Operate the control or treatment system at all times when the collected gas is routed to the system. [40 CFR 60.753(f)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
33	If monitoring demonstrates that the operational requirements in 40CFR60.753 (b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c) of this subpart. If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 60.753(g)]	None.	None.	None.
34	Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.752(b)(2)(iv)], [40 CFR 60.753], [40 CFR 60.755] and [40 CFR 60.756]	None.	None.	None.
35	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
36	For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under [40 CFR 63.6(e)(1)(ii)] and [40 CFR 63.6(e)(3)]	None.	None.	Other (provide description): Other Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(ii)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	<p>The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard.</p> <p>The purpose of the startup, shutdown, and malfunction plan is to:</p> <p>(A) Ensure that, at all times, the owner or operator operates and maintains each affected source, including associated air pollution control and monitoring equipment, in a manner which satisfies the general duty to minimize emissions established by paragraph 40 CFR 63.6(e)(1)(i) ;</p> <p>(B) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and</p> <p>(C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation). [40 CFR 63.6(e)(3)(i)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	<p>When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a checklist or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator must keep records of these events as specified in 40 CFR 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(iii)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence &amp; duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence &amp; duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a checklist or some other effective device). [40 CFR 63.6(e)(3)]</p>	<p>(semiannually). The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. Submit reports in April and October of each year. The report shall only be required if a startup, shutdown, or malfunction occurred during the reporting period and shall identify any instance where any action taken by an owner or operator during startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the affected source's startup, shutdown, or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard. Submit a report: As per the approved schedule. [40 CFR 63.10(d)(5)(i)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	<p>If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator). [40 CFR 63.6(e)(3)(iv)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain relevant records for such source of:</p> <p>(i) The occurrence &amp; duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence &amp; duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a checklist or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]</p>	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	The owner or operator may periodically revise the startup, shutdown, and malfunction plan for the affected source as necessary to satisfy the requirements of this part or to reflect changes in equipment or procedures at the affected source. Unless the permitting authority provides otherwise, the owner or operator may make such revisions to the startup, shutdown, and malfunction plan without prior approval by the Administrator or the permitting authority. If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator must revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment. [40 CFR 63.6(e)(3)(viii)]	None.	None.	. Each start up, shutdown and malfunction plan revision must be reported in the semiannual report required by 40 CFR 63.10(d)(5) and Submit a report: Upon occurrence of event. [40 CFR 63.6(e)(3)(viii)]
41	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
42	Existing affected sources and area sources must comply with the requirements in 40 CFR 63.1955(b) and 40 CFR 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later. [40 CFR 63.1945(f)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	Demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected pursuant to [40 CFR 60.756(b)(1)] , (c)(1), and (d) of subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.1960]	Other (provide description): Other Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
44	The owner/operator must develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.1960]	None.	Other: Maintain a current copy of the Startup, Shutdown, and Malfunction Plan (SSM) on site. [40 CFR 63.1960] &[40 CFR 63.1980].	The owner or operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph 40 CFR 63.10 (d)(5)(ii) shall consist of a telephone call (or facsimile (FAX) transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event. Submit a report: Upon occurrence of event. [40 CFR 63.10(d)(5)(ii)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	For the purposes of the landfill monitoring and Startup, Shutdown, and Malfunction Plan (SSM) requirements, deviations (as defined in 40 CFR 63.1990) include the items in paragraphs (a) through (c) of this section. (a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded. (b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period (refer to 40 CFR 63.1975) does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. (c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site. [40 CFR 63.1965]	None.	None.	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	Each owner or operator shall submit reports every 6 months to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR60.758(c). [40 CFR 60.757(f)] & [40 CFR 63.1980(a)]	None.	None.	. The biannual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), 40 CFR 60.756(b), 40 CFR 60.756(c), and 40 CFR 60.756(d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to [40CFR 60.755(a)(3)], [40CFR 60.755 (b)], and [40CFR 60.755 (c)(4)]. [40CFR 60.757(f)] &. [40CFR 63.1980(a)] Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. [40 CFR 63.1980(a)]

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Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS21 Engine # 1 firing Landfill Gas, Start-up Periods, OS22 Engine # 2 firing Landfill Gas, Start-up Periods, OS23 Engine # 3 firing Landfill Gas, Start-up Periods, OS24 Engine # 4 firing Landfill Gas, Start-up Periods, OS25 Engine # 5 firing Landfill Gas, Start-up Periods

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The lb/hr emission limits that apply during normal operation (OS11, OS12, OS13, OS14 and OS15) shall apply at all times including start-up periods based in one hour averaging period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	The duration of the startup period shall be twenty minutes or less. [N.J.A.C. 7:27-22.16(e)]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record the startup duration for each startup. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS26 Abutec flare (Enclosed Flare - 6) – start up

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.179 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.403 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.756 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.571 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.202 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.202 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.202 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Hours of Operation <= 365 hr/yr. The duration of each startup period shall be thirty minutes or less. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously during operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 One Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS Summary

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	VOC (Total) <= 0.12 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.87 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.07 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.13 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 3.36 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 1.21 tons/yr. Maximum annual emissions limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hours of Operation <= 500 hr/yr. Maximum annual hours of operation. [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Material processed limited to wood chips and landfill cover. [N.J.A.C. 7:27-22.16(a)]	Other: Review of production records.[N.J.A.C. 7:27-22.16(o)].	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 One Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS1 Trommel Screen No. 1 Engine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log in a logbook and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulate Emissions <= 1.05 lb/hr. Maximum emission limit based on heat input. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
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.
6	VOC (Total) <= 0.49 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>NOx (Total) &lt;= 3.46 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]</p>	<p>NOx (Total): Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the CO is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.                      (2) The name, title and affiliation of the person who performed the monitoring.                      (3) The periodic emission monitoring results and the calculations used to convert to lb/hr.                      (4) Description of corrective action taken if needed.                      (5) Date and time emission exceedance problem was corrected, if applicable.                      [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 4.29 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the NOx is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.</p> <p>(2) The name, title and affiliation of the person who performed the monitoring.</p> <p>(3) The periodic emission monitoring results and the calculations used to convert to lb/hr.</p> <p>(4) Description of corrective action taken if needed.</p> <p>(5) Date and time emission exceedance problem was corrected, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	SO2 <= 0.51 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.2 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.2 lb/hr. Maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input <= 1.75 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 One Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS2 Trommel Screen No. 1

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	TSP <= 11.81 lb/hr. Maximum emission limit from operating permit modification application based on 0.025 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 4.11 lb/hr. Maximum emission limit from operating permit modification application based on 0.0087 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 472.5 tons/hr. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 One Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS3 Trommel Screen No. 1 Conveyor

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.42 lb/hr. Maximum emission limit from operating permit modification application based on 0.003 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.52 lb/hr. Maximum emission limit from operating permit modification application based on 0.0011 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 472.5 tons/hr. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U38 Diamond Z Horizontal Grinder and Engine

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Applicable Requirements: 40 CFR NSPS - Subpart A 40 CFR NSPS - Subpart IIII [40 CFR 60]	None.	None.	None.
2	<p><b>STACK TESTING SUMMARY:</b>                      The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for CO, NOx, TSP, PM10, and PM2.5 as specified in the compliance plan for OS1.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The initial stack testing will satisfy the stack testing for the permit term ending June 27, 2020.</p> <p><b>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)]</b></p>	<p>Monitored by stack emission testing once initially. The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the new source (E600), whichever comes later.</p> <p>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)]</p>	Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the 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: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a> . Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]

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New Jersey Department of Environmental Protection  
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>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 CO, NOx, TSP, PM10, and PM2.5 as specified in the compliance plan for OS1.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The initial stack testing will satisfy the stack testing for the permit term ending June 27, 2020. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>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).</p> <p>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)]</p>
4	CO <= 0.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 4.37 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 1.24 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.156 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.109 tons/yr. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
9	TSP <= 0.189 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	HAPs (Total) <= 0.009 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Benzene <= 0.004 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.0051 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Hours of Operation <= 1,000 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Monitored by hour/time monitor daily, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Operating hours for any 12 consecutive months is computed by adding the operating hours on a given month to the operated hours in the preceding 11 months. [N.J.A.C. 7:27-22.16(a)]	None.
15	Fuel Oil Usage <= 61,300 gal/yr. Maximum of 61.3 gal/hr ultralow sulfur diesel fuel used. [N.J.A.C. 7:27-22.16(a)]	None.	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
16	Total Throughput <= 175,000 tons/yr. Wood waste , Brush and Yard waste, based on manufacturing design process. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by hours and maximum throughput of 175 tons/hr[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintained manufacturing design process records on site. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U38 Diamond Z Horizontal Grinder and Engine

**Operating Scenario:** OS1 Diamond Z CAT Engine

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	None.	None.	None.
2	Particulate Emissions <= 5.15 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.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	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.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions.                      (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;                      (2) Emission Point number;                      (3) Operational status of equipment;                      (4) Observed results and conclusions;                      (5) Description of corrective action taken if needed;                      (6) Date and time opacity problem was solved, if applicable;                      (7) N.J.A.C. 7:27B-2 results if conducted; and                      ((8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.
6	CO <= 500 ppm @ 15% O2. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-16.23(a)2] and. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit expiration date. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-16.23(a)2] and. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 442 ppm @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs . [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 1.2 lb/hr. Based on engine manufacturer specifications. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 1.2 lb/hr. If the engine does not operate at all during the quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , each performed over a consecutive 60-minute period specified by the Department. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of the Department's technical manual TM1005 at the same time that the NOx is being monitored. If the PMP test result exceeds the permit limit, the permittee shall do the following: (1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. (2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. If the PMP test results show compliance with the emission limit for 4 consecutive quarters, the frequency of PMP shall be change to once per calendar year. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , or once per calendar year as applicable in accordance with the monitoring requirements. The owner or operator shall record and retain the following records:  (1) Date and time of PMP;  (2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;  (3) Description of corrective action taken if needed;  (4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and according to manufacturer's recommended maintenance schedules. [N.J.A.C. 7:27-16.10(e)2] and [N.J.A.C. 7:27-19.8(f)]	Other: The owner or operator shall adjust the combustion process according to manufacturer's recommended maintenance procedures and schedules[N.J.A.C. 7:27-19.16(g)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. 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.
11	NOx (Total) <= 8 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(c)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-19.15(a)2] and. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	NOx (Total) <= 3.33 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-19.15(a)2] and. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
13	NOx (Total) <= 8.73 lb/hr. Based on engine manufacturer specifications. If the engine does not operate at all during the quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-19.15(a)2] and. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>NOx (Total) &lt;= 8.73 lb/hr. If the engine does not operate at all during the quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]</p>	<p>NOx (Total): Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , each performed over a consecutive 60-minute period specified by the Department. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of the Department's technical manual TM1005 at the same time that the CO is being monitored.                      If the PMP test result exceeds the permit limit, the permittee shall do the following:                      (1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.                      (2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem.                      If the PMP test results show compliance with the emission limit for 4 consecutive quarters, the frequency of PMP shall be change to once per calendar year. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , or once per calendar year as applicable in accordance with the monitoring requirements. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;                      (2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;                      (3) Description of corrective action taken if needed;                      (4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
15	<p>SO2 &lt;= 2.49 lb/hr. Based AP-42 Section 11.19 Table 11.19.2-2. Limited to burn ultralow sulfur diesel fuel only. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	TSP <= 0.168 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
17	PM-10 (Total) <= 0.218 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
18	PM-2.5 (Total) <= 0.218 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. The stack testing conducted for PM10 will satisfy testing for PM2.5. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results upon occurrence of event See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
19	VOC (Total) <= 0.23 lb/hr. Based on engine manufacturer specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Benzene <= 0.008 lb/hr. Based on Table 3.3-2 AP-42 Emission Factors (Hazardous Air pollutant listed in the Clean Air Act). [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations once initially Based on maximum engine heat input and emission factor for Benzene (0.000933 lb/MMBTU). [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.
21	Formaldehyde <= 0.01013 lb/hr. Based on Table 3.3-2 AP-42 Emission Factors (Hazardous Air pollutant listed in the Clean Air Act). [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially Based on maximum engine heat input and emission factor for Formaldehyde (0.00118 lb/MMBTU). [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.
22	Maximum Gross Heat Input <= 8.58 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	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)]
24	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)]
25	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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	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.
27	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
28	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.
29	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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	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.
31	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.
32	The owner or operator of a 2011 - 2014 model year generator set non-emergency CI ICE with a displacement of < 10 liters per cylinder and a maximum engine power 750 < HP =< 1200 (560 < kW =< 900) must comply with the certification emissions standards in in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104 (interim provisions), 40 CFR 1039.105 (smoke standards), 40 CFR 1039.107, and 40 CFR 1039.115, for the same model year and maximum engine power as follows: NMHC <= 0.30 g/HP-hr, NOx <= 2.6 g/HP-hr, CO <= 2.6 g/HP-hr, PM <= 0.075 g/HP-hr. [40 CFR 60.4204(b)]	Other: The owner or operator of a 2007 model year or later engine must review manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power, once initially. [40 CFR 60.4211].	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.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
33	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 over the entire life of the engine. [40 CFR 60.4206]	Other: The owner or operator shall review the emission-related manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4206].	Other: The owner or operator shall keep the manufacturer's emission-related written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, 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.
34	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to 40 CFR 60 Subpart IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) subject to 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, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel fuel 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, or certificate of analysis. [N.J.A.C. 7:27:22.16(o)] or [N.J.A.C. 7:27- 8.13(a)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel used 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)] or [N.J.A.C. 7:27- 8.13(a)]	None.
35	Owners and operators of a 2007 and later model year stationary CI internal combustion engines must follow the deadline for installing or importing CI ICE produced in the previous model year as specified in 40 CFR 60.4208(a) through (g), except for engines that have been modified or reconstructed, and except for engines that were removed from one existing location and reinstalled at a new location. [40 CFR 60.4208]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	<p>The owner or operator that must comply with the emission standards specified in 40 CFR 60 Subpart IIII must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89 and/or 1068 (General Compliance Provisions), as applicable. [40 CFR 60.4211(a)]</p>	<p>Other: The owner or operator shall review the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, once initially. [40 CFR 60.4211(a)].</p>	<p>Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4211(a)].</p>	<p>None.</p>
37	<p>The owner or operator of a 2007 model year and later stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder complying with the emission standards specified in 40 CFR 60.4204(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(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. If the owner/operator does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change emission related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as prescribed in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]</p>	<p>Other: The owner or operator must review documentation once initially from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].</p>	<p>Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection  
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**Emission Unit:** U38 Diamond Z Horizontal Grinder and Engine

**Operating Scenario:** OS2 Diamond Z Grinder Operation

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Particulate Emissions <= 0.5 lb/hr. Allowable Emission Rate (lbs. per hr.) Based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity: There shall be no visible emissions, exclusive of visible water vapor, except for a period no longer than three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.21 lb/hr Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.095 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U38 Diamond Z Horizontal Grinder and Engine

**Operating Scenario:** OS3 Diamond Z Infeed Conveyor, OS4 Diamond Z Discharge Conveyor 1, OS5 Diamond Z Discharge Conveyor 2

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Particulate Emissions <= 0.5 lb/hr. Allowable Emission Rate (lbs. per hr.) Based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity: There shall be no visible emissions, exclusive of visible water vapor, except for a period no longer than three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**Emission Unit:** U40 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Summary of Federal Applicable Requirements: 40 CFR NSPS - Subpart A - GENERAL PROVISIONS 40 CFR NSPS - Subpart III - STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60]</p>	None.	None.	None.
2	<p><b>STACK TESTING SUMMARY:</b> The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for CO, and NOx as specified in the compliance plan for OS1.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The initial stack testing will satisfy the permit term stack test if the conditions for that permit term test are satisfied.</p> <p><b>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)]</b></p>	<p>Monitored by stack emission testing once initially. The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the new source (E600), whichever comes later.</p> <p>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)]</p>	Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the 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: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

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3	<p>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 CO, and NO<sub>x</sub>, as specified in the compliance plan for OS1.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The initial stack testing will satisfy the permit term stack test if the conditions for that permit term test are satisfied.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO<sub>x</sub> and/or CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>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).</p> <p>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)]</p>
4	<p>CO &lt;= 3.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>
5	<p>NO<sub>x</sub> (Total) &lt;= 3.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>
6	<p>SO<sub>2</sub> &lt;= 1.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
7	PM-10 (Total) <= 0.035 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.03 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Total Hours of Operation <= 1,000 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Monitored by hour/time monitor daily, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(a)]	None.

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**Emission Unit:** U40 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder

**Operating Scenario:** OS1 One 7.45 MMBTU/hr - Diesel - CAT C27 Engine

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	None.	None.	None.
2	Particulate Emissions <= 4.47 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.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
6	CO <= 500 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit expiration date. See stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	NOx (Total) <= 8 grams/brake horsepower-hour The owner or operator of a lean burn stationary reciprocating engine capable of producing an output of 500 brake horsepower or more, fueled by liquid fuel, shall cause it to emit no more than 8.0 grams of NOx per bhp-hr. [N.J.A.C. 7:27-19.8(c)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and prior to permit expiration date. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	The owner or operator shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and according to manufacturer's recommended maintenance schedules. [N.J.A.C. 7:27-16.10(e)2]	Other: The owner or operator shall adjust the combustion process according to manufacturer's recommended maintenance procedures and schedules[N.J.A.C. 7:27-19.16(g)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. 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.
9	CO <= 6.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 6.02 lb/hr. If the engine does not operate at all during the quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , each performed over a consecutive 60-minute period specified by the Department. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of the Department's technical manual TM1005 at the same time that the NOx is being monitored. If the PMP test result exceeds the permit limit, the permittee shall do the following: (1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. (2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. If the PMP test results show compliance with the emission limit for 4 consecutive quarters, the frequency of PMP shall be change to once per calendar year. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , or once per calendar year as applicable in accordance with the monitoring requirements. The owner or operator shall record and retain the following records:  (1) Date and time of PMP;  (2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;  (3) Description of corrective action taken if needed;  (4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]	None.
11	CO <= 3.5 grams/kW-hr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	NOx (Total) <= 6.02 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack details elsewhere in the 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 details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
13	NOx (Total) <= 6.02 lb/hr. If the engine does not operate at all during the quarter, periodic emissions monitoring for that quarter is not required. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , each performed over a consecutive 60-minute period specified by the Department. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of the Department's technical manual TM1005 at the same time that the CO is being monitored. If the PMP test result exceeds the permit limit, the permittee shall do the following: (1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. (2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. If the PMP test results show compliance with the emission limit for 4 consecutive quarters, the frequency of PMP shall be change to once per calendar year. [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 quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year , or once per calendar year as applicable in accordance with the monitoring requirements. The owner or operator shall record and retain the following records:  (1) Date and time of PMP;  (2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;  (3) Description of corrective action taken if needed;  (4) Date and time of corrective action taken, if applicable. [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	NOx (Total) <= 3.5 grams/kW-hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in 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 requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	SO2 <= 2.16 lb/hr. Only ultralow sulfur diesel fuel shall be combusted. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 0.07 grams/kW-hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	VOC (Total) <= 0.32 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	NMHC <= 0.19 grams/kW-hr [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Maximum Gross Heat Input <= 7.45 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
22	Fuel Oil Usage <= 53,200 gal/yr. Maximum annual ultralow sulfur diesel fuel used. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by review of fuel delivery records annually during operation. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: 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)]	None.
23	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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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)]
25	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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	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.
27	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
28	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.
29	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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	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.
31	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.
32	The owner or operator of a 2015 and later model year non-emergency CI ICE with a displacement of < 10 liters per cylinder and a maximum engine power 750 < HP =< 3000 (560 < kW =< 2237) and is NOT a generator set must comply with the certification emissions standards in in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104 (interim provisions), 40 CFR 1039.105 (smoke standards), 40 CFR 1039.107, and 40 CFR 1039.115, for the same model year and maximum engine power as follows: NMHC <= 0.14 g/HP-hr, NOx <= 2.6 g/HP-hr, CO <= 2.6 g/HP-hr, PM <= 0.03 g/HP-hr. [Permit evaluators should convert units, as appropriate]. [40 CFR 60.4204(b)]	Other: The owner or operator of a 2007 model year or later engine must review manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power, once initially. [40 CFR 60.4211].	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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	For engines installed on or after January 1, 2016, limit the emissions of NOX in the stationary CI internal combustion engine exhaust to the following: (ii) $9.0 \cdot n^{-0.20} \text{ g/KW-hr} = 2.01 \text{ g/KW-hr}$ $(6.7 \cdot n^{-0.20} \text{ g/HP-hr} = 1.19 \text{ g/HP-hr})$ where n (maximum engine speed) is 130 or more but less than 2,000 rpm [40 CFR 60.4204(c)(3)(ii)]	None.	None.	None.
34	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 over the entire life of the engine. [40 CFR 60.4206]	Other: The owner or operator shall review the emission-related manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4206].	Other: The owner or operator shall keep the manufacturer's emission-related written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, 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.
35	Owners and operators of a 2007 and later model year stationary CI internal combustion engines must follow the deadline for installing or importing CI ICE produced in the previous model year as specified in 40 CFR 60.4208(a) through (g), except for engines that have been modified or reconstructed, and except for engines that were removed from one existing location and reinstalled at a new location. [40 CFR 60.4208]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	<p>The owner or operator that must comply with the emission standards specified in 40 CFR 60 Subpart IIII must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89 and/or 1068 (General Compliance Provisions), as applicable. [40 CFR 60.4211(a)]</p>	<p>Other: The owner or operator shall review the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, once initially. [40 CFR 60.4211(a)].</p>	<p>Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4211(a)].</p>	<p>None.</p>
37	<p>The owner or operator of a 2007 model year and later stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder complying with the emission standards specified in 40 CFR 60.4204(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(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. If the owner/operator does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change emission related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as prescribed in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]</p>	<p>Other: The owner or operator must review documentation once initially from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].</p>	<p>Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].</p>	<p>None.</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	The owner or operator of a 2007 model year and later stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder complying with the emission standards specified in 40 CFR 60.4204(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(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. If the owner/operator does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change emission related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as prescribed in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]	Other: The owner or operator must review documentation once initially from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.
39	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U40 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder

**Operating Scenario:** OS2 DZ 1463 Tub Grinder

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Particulate Emissions <= 0.5 lb/hr. Allowable Emission Rate (lbs. per hr.) Based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity: There shall be no visible emissions, exclusive of visible water vapor, except for a period no longer than three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.06 lb/hr Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 50 tons/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U40 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder

**Operating Scenario:** OS3 Tub Grinder Conveyor, OS4 Tub Grinder Outfeed Conveyor

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Particulate Emissions <= 0.5 lb/hr. Allowable Emission Rate (lbs. per hr.) Based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity: There shall be no visible emissions, exclusive of visible water vapor, except for a period no longer than three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP <= 0.05 lb/hr Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 50 tons/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U50 Doppstadt Screen at CoComposting Facility

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Applicable Requirements: 40 CFR NSPS - Subpart A-GENERAL PROVISIONS 40 CFR NSPS - Subpart IIII-STANDARDS OF PERFORMANCE FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	<p>Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:</p> <p>(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions.                      (2) If the visible emissions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2. Conduct opacity observations, in accordance with N.J.A.C. 7:27B-2, each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following:</p> <p>(1) Date and time of inspection;                      (2) Emission Point number                      (3) Operational status of equipment:                      (4) Observed results and conclusions:                      (5) Description of corrective action taken if needed;                      (6) Date and time opacity problem was solved, if applicable;                      (7) N.J.A.C. 7:27B-2 results if conducted; and                      (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.
4	TSP <= 1.94 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.68 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.68 tons/yr. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
7	NOx (Total) <= 0.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
8	CO <= 1.26 tons/yr. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
9	SO2 <= 0.34 tons/yr. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
10	Material processed limited to finished compost. [N.J.A.C. 7:27-22.16(a)]	Other: Review of production records.[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 Production records. [N.J.A.C. 7:27-22.16(o)]	None.
11	Hours of Operation <= 2,500 hr/yr. Maximum annual hours of operation. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: 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)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
12	Total Production Rate <= 50 tons/hr. Maximum hourly finished compost material processed, based on manufacturing design process. [N.J.A.C. 7:27-22.16(a)]	Total Production Rate: Monitored by calculations once initially. Review of manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain readily accessible copies of manufacturer's specification. [N.J.A.C. 7:27-22.16(o)]	None.
13	Total Throughput <= 125,000 tons/yr. Maximum annual finished compost material processed, based on manufacturing design process. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total composting material processed (tons per year) for any 12 consecutive months, computed by adding the composting material processed in a given month to that processed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
14	Fuel Oil Usage <= 16,592 gal/yr. Maximum Annual Fuel Usage. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil 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)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the calculated Diesel fuel consumption (gallons) for any 12 consecutive months, computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U50 Doppstadt Screen at CoComposting Facility

**Operating Scenario:** OS1 One Diesel Doppstadt Screen Engine 0.93MMBTU/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
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)]	None.	None.	None.
3	CO <= 1.01 lb/hr. Based on Manufacturer certified emissions and maximum heat input rate of the engine. (5.0 g/kw/hr). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations once initially. Based on Manufacturer Certified Emissions (5.0 g/kw/hr). [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.
4	NOx (Total) <= 0.08 lb/hr. Based on Manufacturer certified emissions and maximum heat input rate of the engine. (0.4 g/kw/hr). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Monitored by calculations once initially. Based on Manufacturer Certified Emissions (5.0 g/kw/hr). [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.
5	SO2 <= 0.27 lb/hr. Based on 0.29 lb/MMBTU AP-42 Emission Factors Section 11.19. Table 11.19.2-2. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations once initially. Based on 0.29 lb/MMBTU AP-42 Emission Factors Section 11.19. Table 11.19.2-2. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
6	Maximum Gross Heat Input <= 0.93 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records showing maximum heat input rate.[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
7	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)]
8	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)]
9	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.

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Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
10	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
11	Upon modifications, emission rates for an affected facility shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard applies. [40 CFR 60.14(b)]	None.	None.	None.
12	The provisions set forth under an applicable subparts of 40 CFR Part 60 supersede conflicting provisions listed under Modification in 40 CFR Part 60.14. [40 CFR 60.14(f)]	None.	None.	None.
13	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.
14	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering 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)]
15	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.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The owner or operator of a 2014 and later model year non-emergency CI ICE with a displacement of < 10 liters per cylinder and a maximum engine power $75 \leq \text{HP} < 100$ ( $56 \leq \text{kW} < 75$ ) must comply with the certification emissions standards in in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104 (interim provisions), 40 CFR 1039.105 (smoke standards), 40 CFR 1039.107, and 40 CFR 1039.115, for the same model year and maximum engine power as follows: NO <sub>x</sub> $\leq 6.9$ g/HP-hr, 9.2 g/KW-hr Table 1 Subpart IIII of Part 60. [40 CFR 60.4204(b)]	Other: The owner or operator of a 2007 model year or later engine must review manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power, once initially. [40 CFR 60.4211].	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.
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 over the entire life of the engine. [40 CFR 60.4206]	Other: The owner or operator shall review the emission-related manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4206].	Other: The owner or operator shall keep the manufacturer's emission-related written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, 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 40 CFR 60 Subpart IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) subject to 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, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel fuel 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, or 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 used 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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Owners and operators of a 2007 and later model year stationary CI internal combustion engines must follow the deadline for installing or importing CI ICE produced in the previous model year as specified in 40 CFR 60.4208(a) through (g), except for engines that have been modified or reconstructed, and except for engines that were removed from one existing location and reinstalled at a new location. [40 CFR 60.4208]	None.	None.	None.
20	The owner or operator that must comply with the emission standards specified in 40 CFR 60 Subpart IIII must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those 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 (General Compliance Provisions), as applicable. [40 CFR 60.4211(a)]	Other: The owner or operator shall review the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, once initially. [40 CFR 60.4211(a)].	Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4211(a)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator of a 2007 model year and later stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder complying with the emission standards specified in 40 CFR 60.4204(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(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. If the owner/operator does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change emission related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as prescribed in 40 CFR 60.4211(g). [40 CFR 60.4211(c)]	Other: The owner or operator must review documentation once initially from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.
22	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines or 40 CFR 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

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Facility Specific Requirements**

**Emission Unit:** U50 Doppstadt Screen at CoComposting Facility

**Operating Scenario:** OS2 Doppstadt Screen

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 5 lb/hr. Maximum allowable emission rate for particles (lb per hr) based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.435 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
3	PM-2.5 (Total) <= 0.435 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
4	TSP <= 1.25 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
5	Total Production Rate <= 50 tons/hr. Maximum hourly process rate, based on maximum design capacity. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Monitored by calculations once initially Review of manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain readily accessible copies of manufacturer's specification. [N.J.A.C. 7:27-22.16(o)]	None.

BOP200001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U50 Doppstadt Screen at CoComposting Facility

**Operating Scenario:** OS3 Doppstadt Screen Conveyor 1

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	Particulate Emissions <= 5 lb/hr. Maximum allowable emission rate for particles (lb per hr) based on 99% efficiency of collection. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.055 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
3	PM-2.5 (Total) <= 0.055 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
4	TSP <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. Emission Factors based on AP-42 Section 11.19. Table 11.19.2-2. [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.
5	Total Production Rate <= 50 tons/hr. Maximum hourly process rate, based on maximum design capacity. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Monitored by calculations once initially Review of manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible copies of manufacturer's specification. [N.J.A.C. 7:27-22.16(o)]	None.

**BOP200001**

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U50 Doppstadt Screen at CoComposting Facility

**Operating Scenario:** OS4 Doppstadt Screen Conveyor 2

The requirements for this item are identical to those for: U50 OS3

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Facility Name (AIMS):** Burlington County Resource Recovery Compl      **Facility ID (AIMS):** 45949

**Street**    21939 COLUMBUS RD  
**Address:** MANSFIELD TOWNSHIP, NJ 08022

**Mailing** BURLINGTON COUNTY CHOSEN  
**Address:** FREEHOLDERS  
FREEHOLDERS  
PO BOX 6000- 49 RANCOCAS RD  
MOUNT HOLLY, NJ 08060

**County:** Burlington  
**Location** Interstate 295 Exit "Florence-Columbus  
**Description:**

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	519,790
<b>Y-Coordinate:</b>	4,435,750
<b>Units:</b>	Meters
<b>Datum:</b>	NAD27
<b>Source Org.:</b>	Other/Unknown
<b>Source Type:</b>	Other/Unknown

<b>Industry:</b>	
<b>Primary SIC:</b>	4953
<b>Secondary SIC:</b>	4959
<b>NAICS:</b>	562212

**New Jersey Department of Environmental Protection  
Facility Profile (General)**

**Contact Type: Air Permit Information Contact**

**Organization:** Burlington County Dept of Solid Waste      **Org. Type:** Local  
**Name:** Jerome Sheehan      **NJ EIN:** 00216000107  
**Title:** Director  
**Phone:** (609) 499-1001 x0273      **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x      P.O.Box 429  
**Other:** ( ) - x      Columbus, NJ 08022  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: BOP - Operating Permits**

**Organization:** Burlington County Dept of Solid Waste      **Org. Type:** Local  
**Name:** Jerome Sheehan      **NJ EIN:** 00216000107  
**Title:** Director  
**Phone:** (609) 499-1001 x0273      **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x      P.O.Box 429  
**Other:** ( ) - x      Columbus, NJ 08022  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Consultant**

**Organization:** Cornerstone Environmental Group, LLC      **Org. Type:** Private  
**Name:** Tiffany L. Medley      **NJ EIN:**  
**Title:** Senior Project Manager  
**Phone:** (845) 695-0265 x      **Mailing Address:** Tiffany L. Medley, Ph.D  
**Fax:** (845) 692-5894 x      16 Pearl Street  
**Other:** ( ) - x      Suite 210  
**Type:** Mobile      Metuchen, NJ 08840  
**Email:** tiffany.medley@tetrattech.com

**New Jersey Department of Environmental Protection  
Facility Profile (General)**

**Contact Type: Emergency Responder**

**Organization:** Burlington County Dept of Solid Waste                      **Org. Type:** County/Municipal  
**Name:** Joe Hilla    **NJ EIN:** 00216000107  
**Title:** Site Supervisor  
**Phone:** (609) 496-4108 x    **Mailing Address:** PO Box 429  
**Fax:** ( ) - x    Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** jhilla@co.burlington.nj.us

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**Contact Type: Emission Statements**

**Organization:** Burlington County Dept of Solid Waste                      **Org. Type:** Local  
**Name:** Jerome Sheehan    **NJ EIN:** 00216000107  
**Title:** Director  
**Phone:** (609) 499-1001 x0273    **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x    Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Environmental Officer**

**Organization:** Burlington County Dept of Solid Waste                      **Org. Type:** County/Municipal  
**Name:** Laurie E. VanGenderen    **NJ EIN:** 00216000107  
**Title:** Solid Waste Coordinator  
**Phone:** (609) 499-1001 x0275    **Mailing Address:** PO Box 429  
**Fax:** ( ) - x    Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** lvangenderen@co.burlington.nj.us

**New Jersey Department of Environmental Protection  
Facility Profile (General)**

**Contact Type: Fees/Billing Contact**

**Organization:** Burlington County Dept of Solid Waste

**Org. Type:** County/Municipal

**Name:** Laurie E. VanGenderen

**NJ EIN:** 00216000107

**Title:** Solid Waste Coordinator

**Phone:** (609) 499-1001 x0275

**Mailing Address:** PO Box 429

**Fax:** (609) 499-5212 x

49 Rancocas Road

**Other:** ( ) - x

P.O.Box 6000

Columbus, NJ 08022

**Type:**

**Email:** lvangenderen@co.burlington.nj.us

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**Contact Type: General Contact**

**Organization:** Burlington County Dept of Solid Waste

**Org. Type:** Local

**Name:** Jerome Sheehan

**NJ EIN:** 00216000107

**Title:** Director

**Phone:** (609) 499-1001 x0273

**Mailing Address:** PO Box 429

**Fax:** (609) 499-5212 x

49 Rancocas Road

**Other:** ( ) - x

P.O.Box 6000

Columbus, NJ 08022

**Type:**

**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Operator**

**Organization:** Burlington County Chosen Freeholders

**Org. Type:** Local

**Name:** Burlington County

**NJ EIN:** 00216000107

**Title:** County

**Phone:** (609) 265-5021 x

**Mailing Address:** 49 Rancocas Rd

**Fax:** (609) 702-7000 x

PO Box 6000

**Other:** ( ) - x

Mount Holly, NJ 08060

**Type:**

**Email:**

**New Jersey Department of Environmental Protection  
Facility Profile (General)**

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

**Organization:** Burlington County Chosen Freeholders                      **Org. Type:** Local  
**Name:** Burlington County    **NJ EIN:** 00216000107  
**Title:** County  
**Phone:** (609) 265-5021 x    **Mailing Address:** 49 Rancocas Rd  
**Fax:** (609) 702-7000 x    PO Box 6000  
**Other:** ( ) - x    Mount Holly, NJ 08060  
**Type:**  
**Email:**

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**Contact Type: Responsible Official**

**Organization:** Burlington County Chosen Freeholders                      **Org. Type:** County  
**Name:** Eve A. Cullinan    **NJ EIN:** 00216000107  
**Title:** County Administrator  
**Phone:** (609) 265-5020 x    **Mailing Address:** 49 Rancocas Rd  
**Fax:** (609) 702-7000 x    PO Box 6000  
**Other:** ( ) - x    Mount Holly, NJ 08060  
**Type:**  
**Email:** ecullinan@co.burlington.nj.us

**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	Dust from Working Face of Landfill	Area 1 and Area 2 of Landfill					110.000	109.900			
FG2	Dust from on-site Roadways	On-site Roadways					319.700	73.500			
Total			0.000	0.000	0.000	0.000	429.700	183.400	0.000	0.00000000	0.000

**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	One 1,000 Gallons Gasoline Tank (UST)	Storage Vessel	Maintenance Garage										
IS2	One 10,000 Gallons Diesel Fuel Tank (UST) with VP <= 0.02 PSIA	Storage Vessel	Maintenance Garage										
IS5	One 550 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Bulky Materials Storage Center										
IS6	One 550 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Co-Composting Facility										
IS7	One 300 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Wastewater Treatment Facility										
IS8	One 285 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Co-Composting Facility										
IS13	One 275 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Operations Staging Area										
IS15	One 1,000 Gallons Waste Oil Tank (AST)	Storage Vessel	Household Hazardous Waste Facility										
IS16	One 550 Gallons Waste Oil Tank (UST)	Storage Vessel	Maintenance Garage										
IS20	8 Units - CO2 Generators (NG) each 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Greenhouse										
IS21	One Water Heater (NG) 200,000 Btu/hour	Fuel Combustion Equipment (Other)	Greenhouse										

**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)	
IS22	One Central Heating Unit (LPG) 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Contract Operator's Trailer										
IS23	6 Units - Radiant Space Heating Tube (LPG) each 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Maintenance Garage										
IS30	One 500 Gallons Soils Blending Tank	Storage Vessel											
IS31	One 550 Gallon Motor Oil Tank	Storage Vessel	LFG to Energy Facility	0.000									
IS32	One 275 Gallon Used Oil Tank	Storage Vessel	LFG to Energy Facility	0.000									
IS33	One 120 Gallon TSA Condensate Tank	Storage Vessel	LFG to Energy Facility	0.000									
IS35	One - LPG Ford Engine Generator Model 300GF-6005-A (616,000 Btu/hr) < 37kW	Stationary Reciprocating Engine	Co-composting Facility	0.000	0.010	0.010	0.000	0.000	0.000				
IS37	One - Greenhouse Emergency Generator "Ingersoll Rand IR-90" (886,000 Btu/hr)	Emergency Generator	Greenhouse	0.030	0.380	0.030	0.030	0.030	0.030				
IS38	One 190 Gallon Fuel Tank for Generator	Storage Vessel	Greenhouse	0.000									

**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)	
IS39	One Fire Pump Diesel Engine (643,900 Btu/hr)	Emergency Generator	Co-composting Facility	0.000	0.030	0.010	0.000	0.000	0.000				
IS40	One 500 Pound per Day Anaerobic Digester (< 50 lb/hr)	Manufacturing and Materials Handling Equipment	Greenhouse	0.000	0.000	0.000	0.000	0.000	0.000				
IS41	One 300 Gallon Feed Hopper	Storage Vessel	Greenhouse	0.000									
IS42	One 300 Gallon Pre-Heat Tank	Storage Vessel	Greenhouse	0.000									
IS43	One 200 Gallon Digestive Storage Tank	Storage Vessel	Greenhouse	0.000									
IS44	One Used Oil Furnace "Energylogic EL-340H" 340,000 BTUs	Fuel Combustion Equipment (Other)		0.006	0.213	0.053	0.002	0.002	0.002				
IS45	One Horizontal 500 Gallon Tank "Distillate Fuel Oil #2"	Storage Vessel		0.000									
IS46	525 Gal LFGTE Facility	Storage Vessel	LFG to energy facility	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000	
IS47	450 Gal Maintenance Building - Hydraulic	Storage Vessel	WM Maintenance Building	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000	
IS48	450 Gal - Maintenance Building - Engine	Storage Vessel	WM Maintenance Building	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000	

**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)	
IS50	1000 Gallons propane fuel tanks capacity supplying Heater E28	Storage Vessel	Co-composting Facility										
IS51	1000 Gallons propane fuel tanks capacity supplying Heater E29	Storage Vessel	Co-composting Facility										
Total				0.036	0.633	0.103	0.032	0.032	0.032	0.000	0.00000000	0.000	

BOP200001

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1	Carbon Silo	Carbon silo (4,400 ft <sup>3</sup> )	Storage Vessel	099227 PCP960003	2/1/1989	No	2/1/1989	
E2	Sludge Tank	Aerated sludge tank (35,500 gallon)	Manufacturing and Materials Handling Equipment	101091 01905211 PCP960001	2/1/1989	No	5/1/1991	
E3	Aeration Tnk	Main aeration tank (190,700 gallon)	Manufacturing and Materials Handling Equipment	101092 01905211 PCP960004	2/1/1989	No	2/1/1989	
E4	Storage Tank	Leachate Storage Tank (200,000 gallon)	Storage Vessel	110427 PCP960002 01904688	2/1/1989	No	2/1/1989	
E5	Surge Tank	Leachate surge tank (200,000 gallon)	Storage Vessel	123622 PCP96011 01951641	8/1/1996	No	8/1/1996	
E6	CAT Gen	Caterpillar generator	Stationary Reciprocating Engine	PCP980003	12/1/1991	No	12/1/1991	
E8	Kohler EG	Kohler generator	Emergency Generator	PCP980005	2/1/1989	No	2/1/1989	
E9	Ghouse boil	Greenhouse boiler	Boiler	PCP030001	10/1/1994	No	4/8/2003	
E10	Landfill	Landfill area 1 and area 2	Landfill	0318000167 PCP030003	1/1/1989	No	6/30/2015	
E11	CCF	Co-Composting facility	Other Equipment	128185	5/1/1998	No	5/1/1998	
E19	LST No3	Leachate Storage Tank No. 3 (1 million gallons)	Storage Vessel	BOP090001	1/1/2010	No		

**New Jersey Department of Environmental Protection  
 Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E23	Micro5	3.5 MMBTU/HR - Microturbine 5 Burning Landfill Gas	Combustion Turbine	BOP070001	1/1/2007	No	1/1/2007	
E28	CCF Heater 3	4.5 MMBTU/hr CoComposting Facility Heater 3	Process Heater	BOP050001	1/1/2018	No		
E29	CCF Heater 4	4.5 MMBTU/hr CoComposting Facility Heater 4	Process Heater	BOP050001	1/1/2018	No		
E31	LFG-Eng#1	LFG Reciprocating Engine # 1	Stationary Reciprocating Engine	BOP050001		No		
E32	LFG-Eng#2	LFG Reciprocating Engine # 2	Stationary Reciprocating Engine	BOP050001		No		
E33	LFG-Eng#3	LFG Reciprocating Engine # 3	Stationary Reciprocating Engine	BOP050001		No		
E34	LFG-Eng#4	LFG Reciprocating Engine # 4	Stationary Reciprocating Engine	BOP050001		No		
E35	LFG-Eng#5	LFG Reciprocating Engine # 5	Stationary Reciprocating Engine	BOP050001		No		
E36	TS ICE 1	1.75 MMBTU/hr - Trommel Screen 1 ICE	Stationary Reciprocating Engine		3/1/2004			
E37	Trommel 1	Trommel Screen 1	Manufacturing and Materials Handling Equipment		3/1/2004			
E38	Trom Conv 1	Trommel Screen 1 Discharge Conveyor	Manufacturing and Materials Handling Equipment		3/1/2004			

BOP200001

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E50	Deutz AG	Doppstadt Screen Engine	Stationary Reciprocating Engine	BOP200001	4/1/2020	No		
E51	Dopp Screen	Doppstadt Screen	Manufacturing and Materials Handling Equipment	BOP200001	4/1/2020	No		
E52	Dopp Convey1	Doppstadt Screen Conveyor 1	Manufacturing and Materials Handling Equipment	BOP200001	4/1/2020	No		
E53	Dopp Convey2	Doppstadt Screen Conveyor 2	Manufacturing and Materials Handling Equipment	BOP200001	4/1/2020	No		
E400	Tub Engine	7.45 MMBTU/hr - CAT C27 Engine	Stationary Reciprocating Engine	BOP160002	1/30/2017	No		
E401	Tub Grinder	DZ 1463 Tub Grinder	Manufacturing and Materials Handling Equipment	BOP160002	1/30/2017			
E402	Tub Conveyor	Tub Grinder Conveyor	Manufacturing and Materials Handling Equipment	BOP160002	1/30/2017			
E403	Tub Outfeed	Tub Grinder Outfeed Conveyor	Manufacturing and Materials Handling Equipment	BOP160002	1/30/2017			
E501	EqualTank	Aerated Equalization Tank 30,000 gallon	Manufacturing and Materials Handling Equipment	PCP960004 01905211				

**New Jersey Department of Environmental Protection  
 Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E502	AerationTk	Aerated Secondary Aeration Tank 35,800 gallon	Manufacturing and Materials Handling Equipment	PCP960004 01905211		No		
E600	DZ Engine	Diamond Z CAT Engine	Stationary Reciprocating Engine	BOP190001	6/30/2016			
E601	DZ Grinder	Diamond Z Horizontal grinder	Manufacturing and Materials Handling Equipment	BOP190001	6/30/2016			
E602	DZ Infeed	Diamond Z Infeed Conveyor	Manufacturing and Materials Handling Equipment	BOP190001	6/30/2016			
E603	DZ Outfeed 1	Diamond Z Outfeed Conveyor 1	Manufacturing and Materials Handling Equipment	BOP190001	6/30/2016			
E604	DZ Outfeed 2	Diamond Z Outfeed Conveyor 2	Manufacturing and Materials Handling Equipment	BOP190001	6/30/2016			
E2201	Micro-1	0.43 MMBTU/HR - Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2202	Micro-2	0.43 MMBTU/HR - Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2203	Micro-3	0.43 MMBTU/HR - Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2204	Micro-4	0.43 MMBTU/HR - Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	

BOP200001

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E2205	Eng Pretrmt	Pretreatment Devices TSA & Venture off gas	Other Equipment	BOP100001				

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E1 (Storage Vessel)

Print Date: 9/29/2020

What type of contents is this storage vessel equipped to contain by design?

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

4,400

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

39.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

NA

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

1.00

Units:

ft^3/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

0.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E1 (Storage Vessel)

Print Date: 9/29/2020

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E2 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Aerated Sludge Tank (Above Ground)"/>
Capacity:	<input type="text" value="3.55E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Raw Material = Treated Waste water and Activated Powder Carbon, Maximum Waste feed Rate &lt;= 28,000 Gal/day, Maximum Annual Throughput &lt;= 10.22MMgal/yr."/>

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E3 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	Main Aeration Tank (Above Ground)
Capacity:	1.91E+05
Units:	gallons
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Material Processed : Landfill Leachate, Shell High = 18 (ft), Diameter = 45 (ft), Open Top, Maximum Design Fill Rate <= 35 gal/min, Maximum Waste Feed Rate <= 10.22MMgal/Yr,

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E4 (Storage Vessel)  
Print Date: 9/29/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E4 (Storage Vessel)

Print Date: 9/29/2020

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E5 (Storage Vessel)  
Print Date: 9/29/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E5 (Storage Vessel)

Print Date: 9/29/2020

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E6 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

Make:

Manufacturer:

Model:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):

Will the equipment be used in excess of 500 hours per year?  
 Yes  
 No

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

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

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E9 (Boiler)  
Print Date: 9/29/2020

Make: Power Flame Burner  
Manufacturer: Smith Cast Iron Boilers  
Model: C3-GG-25  
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 4.72  
Boiler Type: Field Erected  
Utility Type: Non-Utility  
Output Type: Steam Only  
Steam Output (lb/hr): 4,200.00  
Fuel Firing Method:  
Description (if other):  
Draft Type:  
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?

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

Comments: Greenhouse Boiler

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E10 (Landfill)  
Print Date: 9/29/2020

Solid Waste Facility Permit Number:

Year Opened:

Solid Waste Facility Permit Issuance Date:

Expected Year of Closure:

Actual Year of Closure:

Total Design Area (acres):

Total Design Capacity (million megagrams):

Active Area (acres):

Capped Area (acres):

Is the Landfill Lined?  Yes  No

Was the site used for the disposal of Hazardous Waste?  Yes  No

Was there ever co-disposal of Industrial Waste or reason to believe that the Waste Stream into the Landfill contained large Waste or volatile compounds from commercial sources?  Yes  No

Maximum Estimated Landfill Gas Generation Rate during the life of the Landfill (ft<sup>3</sup>/yr):

Model used to estimate Landfill Gas Production:

Is there a Landfill Gas Pre-Treatment System?  Yes  No

Method of Landfill Gas Pre-Treatment:

Design Capacity of Landfill Gas Collection System (acfm):

Overall Collection Efficiency(%):

Landfill Gas Mover/Blower size (hp):

Number of Extraction Wells:

Extraction Well Diameter (ft):

Extraction Well Depth (ft):

Extraction Well Overlap (%):

Extraction Well Operating Vacuum (in. H2O):

Have you attached Actual Landfill Gas Analysis?  Yes  No

Have you attached a layout (plan view) of the wells and header piping?  Yes  No

Have you attached a waste

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E10 (Landfill)  
Print Date: 9/29/2020

deposition history (provide  
tons deposited for each  
operating year)?

Yes  No

Comments:

Pollutant	Concentration	Units
Amines		
CO2		
Chlorides		
H2S		
Mercaptans		
Mercury		
Methane		
Non-Methane Hydrocarbons		

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E11 (Other Equipment)  
Print Date: 9/29/2020

Make:	
Manufacturer:	Wheelabrator Clean Water New Jersey Inc.
Model:	
Equipment Type:	Enclosed bldg containing 25 agitated composting bins with temperature feedback control
Capacity:	84.00
Units:	dry tons/day
Description:	

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

Yes  
 No

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

Yes  
 No

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E19 (Storage Vessel)

Print Date: 9/29/2020

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Bolted/Riveted

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

16.50

Length (ft):

Width (ft):

Diameter (ft):

110.00

Other Dimension

Description:

depth

Value:

16.00

Units:

feet

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

650.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Domed vertical fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

2.10

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

No

Does the storage vessel

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E19 (Storage Vessel)

Print Date: 9/29/2020

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E23 (Combustion Turbine)  
Print Date: 9/29/2020

Make:   
Manufacturer:   
Model:   
Maximum rated Gross Heat Input (MMBtu/hr-HHV):   
Type of Turbine:   
Type of Cycle:  Description:   
Industrial Application:  Description:   
Power Output:  Units:

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:   
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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E28 (Process Heater)  
Print Date: 9/29/2020

Make: Babfar Equipment Corp.  
Manufacturer: Babfar Equipment Corp.  
Model: DF-21 BG Liquid Propane  
Equipment Type Description: Direct Fired Propane Air Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV): 4.5  
Draft Type: Induced  
Firing Method: Direct

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

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

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

Yes  
 No

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

Yes  
 No

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E29 (Process Heater)  
Print Date: 9/29/2020

Make: Babfar Equipment Corp.  
Manufacturer: Babfar Equipment Corp.  
Model: DF 21 BG  
Equipment Type Description: Direct Fired Propane Air Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV): 4.5  
Draft Type: Induced  
Firing Method: Direct

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

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

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

Yes  
 No

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

Yes  
 No

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E31 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E32 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E33 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E34 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E35 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E36 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:	Caterpillar
Manufacturer:	
Model:	3126 T/A
Maximum Rated Gross Heat Input (MMBtu/hr):	1.75
Class:	Rich Burn
Description:	
Duty:	Load Following
Description:	
Minimum Load Range (%):	70
Maximum Load Range (%):	70
Stroke:	4-stroke
Power Output (BHP):	230
Electric Output(KW):	170.83
Compression Ratio:	17
Ignition Type:	Compression
Description:	
Engine Speed (RPM):	1700
Engine Exhaust Temperature (°F):	1192
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	7608.7
Output Type:	Electric
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>
Description:	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	Engine is certified Tier 1. Machine Build Date July 2001.

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

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E37 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="McCloskey Bros. MFG"/>
Model:	<input type="text" value="833 RE"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trommel Screen"/>
Capacity:	<input type="text" value="3.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="CU YDS/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E38 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="McCloskey Bros. MFG"/>
Model:	<input type="text" value="MCB 833RE"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trommel Screen Discharge Conveyor"/>
Capacity:	<input type="text" value="3.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="cu yds/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E50 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)  A NOx Converter

Air to Fuel Adjustment (AF)  Ignition Timing Retard

Low Emission Combustion  Non-Selective Catalytic Retard (NSCR)

Other

Description:

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

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

Comments:

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

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E51 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="DOC and SCR"/>
Model:	<input type="text" value="SM 726"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="screen"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E52 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="DOC and SCR"/>
Model:	<input type="text" value="SM 726"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="screen"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E400 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E401 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZ 1463"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Grinder"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E402 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZ 1463"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Conveyor"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E403 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZ 1463"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Conveyor"/>
Capacity:	<input type="text" value="5.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E501 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Process Tank"/>
Capacity:	<input type="text" value="3.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Hight = 18(ft), Diameter = 18(ft). Maximum Design Fill Rate = 35(gal/min)"/>

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E502 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Secondary Aeration Tank"/>
Capacity:	<input type="text" value="3.58E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Raw Material = Treated Waste Water and Actvated Powder Carbon. Maximum Waste Feed Rate = 28000 gal/day, Maximum Annual Throughput &gt;= 10.22MMgal/Yr"/>

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E600 (Stationary Reciprocating Engine)  
 Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Class:

Description:

Duty:

Description:

Minimum Load Range (%):

Maximum Load Range (%):

Stroke:

Power Output (BHP):

Electric Output(KW):

Compression Ratio:

Ignition Type:

Description:

Engine Speed (RPM):

Engine Exhaust Temperature (°F):

Air to Fuel Ratio at Peak Load:

Ratio Basis:

Lambda Factor (scfm/scfm):

Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):

Output Type:

Heat to Power Ratio:

Is the Engine Using a Turbocharger?  Yes  No

Is the Engine Using an Aftercooler?  Yes  No

Is the Engine Using (check all that apply):

<input type="checkbox"/> A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter
<input type="checkbox"/> Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard
<input checked="" type="checkbox"/> Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR)
<input type="checkbox"/> Other	

Description:

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

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

Comments:

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

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E602 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZH7000"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Conveyor"/>
Capacity:	<input type="text" value="1.75E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E601 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZH7000"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Grinder"/>
Capacity:	<input type="text" value="1.75E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E603 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZH7000"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Conveyor"/>
Capacity:	<input type="text" value="1.75E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E2202 (Combustion Turbine)  
Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):

Type of Turbine:

Type of Cycle:  Description:

Industrial Application:  Description:

Power Output:  Units:

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:

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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E604 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="Diamond Z"/>
Manufacturer:	<input type="text" value="Diamond Z"/>
Model:	<input type="text" value="DZH7000"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Conveyor"/>
Capacity:	<input type="text" value="1.75E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E2201 (Combustion Turbine)  
Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):

Type of Turbine:

Type of Cycle:  Description:

Industrial Application:  Description:

Power Output:  Units:

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:

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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E2203 (Combustion Turbine)  
Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):

Type of Turbine:

Type of Cycle:  Description:

Industrial Application:  Description:

Power Output:  Units:

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:

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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 E2204 (Combustion Turbine)  
Print Date: 9/29/2020

Make:

Manufacturer:

Model:

Maximum rated Gross Heat Input (MMBtu/hr-HHV):

Type of Turbine:

Type of Cycle:  Description:

Industrial Application:  Description:

Power Output:  Units:

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:

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:

Make:	VENTURE
Manufacturer:	Biogas Condition System
Model:	Siloxane Removal Skid
Equipment Type:	Pretreatment Devices TSA & Venture off gas
Capacity:	3,000.00
Units:	SCFM
Description:	

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

Yes  
 No

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

Yes  
 No

Comments:

BOP200001

**New Jersey Department of Environmental Protection  
Control Device Inventory**

<b>CD NJID</b>	<b>Facility's Designation</b>	<b>Description</b>	<b>CD Type</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>CD Set ID</b>
CD1	Flare -1	Enclosed Flare -1	Flare	8/1/1994	No	8/1/1994	
CD3	Flare-4	Enclosed Flare -4	Flare	9/1/1998	No	9/1/1998	
CD4	Biofilters	CCF North and South Biofilters	Biofilter	5/1/1998	No	1/29/2001	
CD6	Bag filter	Carbon silo baghouse	Particulate Filter (Baghouse)	2/1/1989	No	2/1/1989	
CD7	Adsorber	Aerated Flow Equalization Tank (Carbon Adsorber) (30,000 gallon Capacity)	Adsorber	2/1/1989	No	2/1/1989	
CD8	Flare -5	Candlestick Flare- 5	Flare	1/16/2003	No	1/16/2003	
CD9	Flare - 6	Enclosed Flare - 6	Flare	1/1/2011	No		

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD1 (Flare)  
Print Date: 9/29/2020

Make:	Enclosed Flare
Manufacturer:	LFG Specialities
Model:	EF64018
Type:	Enclosed
Minimum Residence Time (sec):	1.00
Maximum Rated Gross Heat Input (MMBtu/hr):	27.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	Flame-Troil II System/UV Scanner
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	200.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	84.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Design Specifications
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:	Monitor Stack Temperature Continuously
Have you attached data from recent performance testing?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD1 (Flare)

Print Date: 9/29/2020

Yes  No

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

Yes  No

Comments:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD3 (Flare)  
Print Date: 9/29/2020

Make:	
Manufacturer:	John Zink Company
Model:	ZTOF
Type:	Enclosed
Minimum Residence Time (sec):	0.60
Maximum Rated Gross Heat Input (MMBtu/hr):	81.80
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	UV Scanner
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	450.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Flare Stack Diameter (inches):	132.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Design Specifications
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:	Monitor Stack Temperature Continuously
Have you attached data from recent performance testing?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD3 (Flare)

Print Date: 9/29/2020

Yes  No

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

Yes  No

Comments:

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD4 (Biofilter)**  
**Print Date: 9/29/2020**

Make:	
Manufacturer:	Wheelabrator Clean Water New Jersey Inc
Model:	
Maximum Air Flow Rate to Biofilter (acfm):	270000
Maximum Temperature of Vapor Stream to Biofilter (°F):	120
Minimum Temperature of Vapor Stream to Biofilter (°F):	90
Minimum Moisture Content of Vapor Stream to Biofilter (%):	95
Bed Composition:	wood chips, bark mulch, leaf compost
Type of Adsorbate:	ammonia,organic compounds,reduced sulfur compou
Bed Height:	3
Bed Length:	300
Bed Width:	270
Units:	Feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Biofilter (in. H2O):	2
Maximum Pressure Drop Across Biofilter (in. H2O):	14
Bed Activity (pH):	5
Method Used to Maintain Bed Moisture:	Humidification of input air, weekly monitoring of moisture, surface sprinkler grid
Method Used to Maintain Bed Activity:	Weekly or biweekly pH monitoring; addition of water with appropriate pH to adjust bed pH (5 to 9).
Method Used to Maintain Bed Temperature:	Weekly monitoring of bed temperature; control of temperature of composting material.
Method Used to Reactivate Biofilter Material:	Turning as needed, replacement when necessary.

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD4 (Biofilter)

Print Date: 9/29/2020

Method Used to Determine When Biofilter Should be Reactivated:

Monitoring of pressure drop, pH, temperature and moisture

Method used to Dispose of Biofilter Material?

Use as amendment in composting process

Is the Biofilter Covered?

Yes  No

Is the Biofilter Heated?

Yes  No

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:

Sense of smell of employees, visitors and neighbors.

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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD6 (Particulate Filter (Baghouse))  
 Print Date: 9/29/2020

Make:	Flex - Kleen
Manufacturer:	Flex - Kleen
Model:	30 PVTL - 9 (IIG)
Number of Bags:	9
Size of Bags (ft <sup>2</sup> ):	30.00
Total Bag Area (ft <sup>2</sup> ):	270.0
Bag Fabric:	Pleated Filters B60430
Fabric Weight (oz/ft <sup>2</sup> ):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	104.0
Maximum Design Air Flow Rate (acfm):	600.0
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	2.22
Minimum Operating Pressure Drop (in. H <sub>2</sub> O):	4.00
Maximum Operating Pressure Drop (in. H <sub>2</sub> O):	17.00
Method of Monitoring Pressure Drop:	Differential Pressure Gauge
Maximum Inlet Temperature (°F):	104.0
Minimum Inlet Temperature (°F):	34.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	600.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential Pressure Gauge
Method for Determining When Cleaning is Required:	Differential Pressure Gauge
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input checked="" type="radio"/> Yes <input type="radio"/> No
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:	Visual
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD6 (Particulate Filter (Baghouse))  
Print Date: 9/29/2020

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:

The Air Flow Rate to Cloth Area Ratio is 2.22/1

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD7 (Adsorber)  
Print Date: 9/29/2020

Make:	<input type="text" value="CD7"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Adsorber Type:	<input type="text" value="▼"/>
Description:	<input type="text"/>
Maximum Gas Flow Rate to Adsorber (acfm):	<input type="text"/>
Maximum Temperature of Vapor Stream to Adsorber (°F):	<input type="text"/>
Minimum Temperature of Vapor Stream to Adsorber (°F):	<input type="text"/>
Minimum Moisture Content of Vapor Stream to Adsorber (%):	<input type="text"/>
Type of Adsorbant:	<input type="text"/>
Bed Height:	<input type="text"/>
Bed Length:	<input type="text"/>
Bed Width:	<input type="text"/>
Units:	<input type="text" value="▼"/>
Other Bed Dimension:	<input type="text"/>
Value:	<input type="text"/>
Units:	<input type="text"/>
Minimum Pressure Drop Across Adsorbant (in. H2O):	<input type="text"/>
Maximum Pressure Drop Across Adsorber (in. H2O):	<input type="text"/>
Total Weight of Adsorbant (lbs):	<input type="text"/>
Total Weight of Adsorbant When Saturated (lbs):	<input type="text"/>
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	<input type="text"/>
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	<input type="text"/>
Set-up Type:	<input type="text" value="▼"/>
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	<input type="text"/>
Sampling Device:	<input type="text"/>
Other:	<input type="checkbox"/>
Description:	<input type="text"/>
Minimum Concentration at Breakthrough (ppmvd):	<input type="text"/>
Handling Method of Saturated Adsorbant:	<input type="text" value="▼"/>
Method of Regeneration:	<input type="text"/>

Maximum Number of Sources  
Using this Apparatus as a Control  
Device (Include Permitted and  
Non-Permitted Sources):

Alternative Method to Demonstrate  
Control Apparatus is Operating  
Properly:

Have you attached data from  
recent performance testing?

 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:

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD8 (Flare)

Print Date: 9/29/2020

Make:	Candlestick Flare
Manufacturer:	Perennial Energy, INc.
Model:	FL-8C
Type:	Open
Minimum Residence Time (sec):	
Maximum Rated Gross Heat Input (MMBtu/hr):	3.90
Auxilliary Fuel:	Other
Description:	none
Method of Pilot Flame Monitoring:	thermocouple
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Gas Flow Rate (acfm):	120.0
Minimum Operating Temperature (°F):	
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	8.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	
How was Efficiency determined?	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	3
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual Observations
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD8 (Flare)

Print Date: 9/29/2020

Yes  No

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

Yes  No

Comments:

[O & M Manual Attached](#)

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD9 (Flare)  
Print Date: 9/29/2020

Make:	
Manufacturer:	Abutec flare or equivalent
Model:	HTF-1
Type:	Enclosed
Minimum Residence Time (sec):	0.70
Maximum Rated Gross Heat Input (MMBtu/hr):	5.40
Auxilliary Fuel:	Landfill gas
Description:	
Method of Pilot Flame Monitoring:	UV
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Gas Flow Rate (acfm):	110.0
Minimum Operating Temperature (°F):	1,400.0
Minimum Heat Content at Burner Tip (Btu/ft³):	455.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	30.00
Lower Heat Content of source gas (BTU/scf):	595
Lower Heat Content of Supplemental Fuel (BTU/scf):	595
Destruction and Removal Efficiency (%):	99.00
How was Efficiency determined?	
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:	Temperature
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No

45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP200001 CD9 (Flare)

Print Date: 9/29/2020

Yes  No

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

Yes  No

Comments:

1 source with pretreatment from one of two devices, either the TSA or Venture Gas Conditioning Skids.

BOP200001

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.		
PT1	Flare -1	Flare-1 Stack	Round	84	40	240	1,600.0	1,500.0	2,000.0	24,550.0	10,000.0	49,100.0	Up	
PT3	Flare -4	Flare-4 stack	Round	132	40	240	1,600.0	1,500.0	1,800.0	89,000.0	20,000.0	178,000.0	Up	
PT4	Boiler-1	Greenhouse boiler stack	Round	20	29	255	525.0	500.0	550.0	2,700.0	2,700.0	2,700.0	Up	
PT7	CAT Generato	Caterpillar generator set	Round	5	21	800	971.0	896.0	1,046.0	1,650.0	1,400.0	1,935.0	Up	
PT9	Kohler EG	Kohler emergency generator set	Round	5	7	300	870.0	850.0	895.0	1,050.0	525.0	2,100.0	Up	
PT10	Biofilters	Co-composting Facility north and south biofilters	Rectangle	999	1	1,200	70.0	50.0	120.0	150,000.0	30,000.0	270,000.0	Up	
PT12	Adsorber-1	Carbon adsorber for aerated sludge tank	Rectangle	38	1	220	65.0	50.0	80.0	480.0	480.0	480.0	Horizontal	
PT13	Bag filter-1	Bag filter for carbon silo	Round	5	44	220	65.0	50.0	80.0	500.0	400.0	600.0	Up	
PT14	Aeration tan	Main aeration tank vent	Round	45	18	220	65.0	50.0	80.0	600.0	400.0	800.0	Up	
PT15	LStorage V-1	Leachate storage tank vent 1	Round	10	24	560	65.0	50.0	80.0	1.0	0.0	10.0	Up	
PT16	LStorage V-2	Leachate storage tank vent 2	Round	6	23	560	65.0	50.0	80.0	0.3	0.0	3.4	Down	
PT17	LSurge V-1	Leachate surge tank vent 1	Round	10	25	650	65.0	50.0	80.0	10.0	0.0	98.0	Up	
PT18	LSurge V-2	Leachate surge tank vent 2	Round	6	2	625	65.0	50.0	80.0	3.0	0.0	36.0	Down	
PT20	Micro5	Stack Microturbine 5	Round	18	13	360	545.0	300.0	545.0	4,340.0	0.0	4,340.0	Up	
PT29	LST 3 Vent 1	Leachate Tank No. 3 Vent 1	Round	12	35	1,400	65.0	50.0	80.0	20.0	0.0	88.9	Down	
PT30	Flare-5	Flare -5 Stack	Round	8	24	240	1,500.0	1,400.0	2,000.0	69,200.0	5,900.0	92,700.0	Up	
PT31	Stack1	Stack from Combined Heat Exchanger	Round	10	12	356	480.0	430.0	530.0	2,200.0	0.0	2,200.0	Up	
PT35	TS1-ENG	Trommel Screen Engine	Round	4	11	800	901.0	898.0	923.0	1,134.0	908.0	1,497.0	Horizontal	

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 9/29/2020

**BOP200001**

**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.		
PT36	TS1	Trommel Screen	Window	96	6	800	50.0	0.0	100.0				Up	
PT37	TS1-DC	Trommel Screen Discharge Conveyor	Surface	54	3	800	50.0	0.0	100.0				Up	
PT41	LFG Engine 1	LFG Engine # 1 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT42	LFG Engine 2	LFG Engine # 2 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT43	LFG Engine 3	LFG Engine # 3 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT44	LFG Engine 4	LFG Engine # 4 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT45	LFG Engine 5	LFG Engine # 5 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT46	Flare- 6	Flare 6 stack	Round	30	29	145	1,400.0	1,400.0	1,800.0	1,500.0	0.0	2,000.0	Up	
PT50	One Diesel D	Doppstadt Screen Engine	Round	3	10	1,200	800.0	700.0	900.0	900.0	500.0	1,500.0	Up	
PT51	Dopp Screen	Doppstadt Screen	Rectangle	183	10	1,200	70.0	0.0	100.0	60.0	0.0	15.0	Up	
PT52	Dopp Convey1	Doppstadt Conveyor 1	Rectangle	105	9	1,200	70.0	0.0	100.0	60.0	0.0	15.0	Up	
PT53	Dopp Convey1	Doppstadt Conveyor 2	Rectangle	105	9	1,200	70.0	0.0	100.0	60.0	0.0	15.0	Up	
PT291	LST 3 Vent 2	Leachate Tank No. 3 Vent 2	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT292	LST 3 Vent 3	Leachate Tank No. 3 Vent 3	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT293	LST 3 Vent 4	Leachate Tank No. 3 Vent 4	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT399	Tub Engine	CAT C27 Engine	Round	5	10	350	810.0	745.0	875.0	1,669.0	1,569.0	1,769.0	Up	
PT400	Tub Engine	CAT C27 Engine	Round	5	10	350	810.0	745.0	875.0	1,669.0	1,569.0	1,769.0	Up	
PT401	Tub Grinder	DZ 1463 Tub Grinder	Surface	49	14	350	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT402	Tub Conveyor	Tub Grinder Conveyor	Surface	37	14	350	70.0	0.0	100.0	6.0	0.0	15.0	Up	

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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.		
PT403	Tub Outfeed	Tub Grinder Outfeed Conveyor	Surface	39	14	350	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT501	EqualTank	Aerated Equalization Tank (30K)												
PT502	AerationTk	Secondary Aeration Tank (35.8K)												
PT599	DZ Engine	Diamond Z CAT Engine	Round	5	10	600	847.0	800.0	900.0	1,847.0	1,000.0	1,847.0	Up	
PT600	DZ Engine	Diamond Z CAT Engine	Round	5	10	600	847.0	800.0	900.0	1,847.0	1,000.0	1,847.0	Up	
PT601	DZ Grinder	Diamond Z Horizontal Grinder	Surface	52	10	600	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT602	DZ Infeed	Diamond Z Infeed Conveyor	Surface	144	4	600	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT603	DZ Outfeed 1	Diamond Z Outfeed Conveyor 1	Surface	159	14	600	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT604	DZ Outfeed 2	Diamond Z Outfeed Conveyor 2	Surface	136	14	600	70.0	0.0	100.0	6.0	0.0	15.0	Up	
PT605	Flare -1	Flare-1 Stack	Round	84	40	240	1,600.0	1,500.0	2,000.0	24,550.0	10,000.0	49,100.0	Up	
PT606	Flare -1	Flare-1 Stack	Round	84	40	240	1,600.0	1,500.0	2,000.0	24,550.0	10,000.0	49,100.0	Up	

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 9/29/2020

**BOP200001**

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

**U 1 Landfill Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)**

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	Landfill	Landfill Areas (1 and 2), Three Flares (CD1, CD3 and CD8)	Normal - Steady State	E10	CD1 (P) CD3 (P) CD8 (S)	PT1 PT3 PT30	5-01-004-06	8,760.0	8,760.0	B	120.0	1,600.0	1,400.0	2,000.0
OS2	GCCS	Landfill Gas Collection and Control System	Normal - Steady State	E10										

**U 2 Boiler-1 One 4.72 MMBTU/hr Greenhouse Boiler**

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	Boiler-1NG	Greenhouse Boiler Burning Natural Gas	Normal - Steady State	E9		PT4	2-03-001-01	0.0	4,380.0		0.0	2,700.0	500.0	550.0
OS2	Boiler-1LG	Greenhouse Boiler Burning Landfill Gas	Normal - Steady State	E9		PT4	2-03-001-01	0.0	4,380.0		0.0	2,700.0	500.0	550.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP200001**

Date: 9/29/2020

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

**U 7 Kohler EG One Kohler Emergency Generator with (ICE)**

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	Kohler EG	Kohler Emergency Generator	Normal - Steady State	E8		PT9	2-03-001-01	0.0	100.0		0.0	1,850.0	820.0	970.0

**U 8 CCF Co-composting Facility**

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	CCF	Co-Composting Facility	Normal - Steady State	E11	CD4 (P)	PT10	5-02-800-01 5-01-004-06	8,760.0	8,760.0	A	9,999.9	9,999.9	50.0	120.0
OS3	CCF Heater 3	4.5 MMBTU/hr Heater No. 3 - Co-Composting Facility	Normal - Steady State	E28	CD4 (P)	PT10	1-05-001-10	0.0	8,760.0		30,000.0	270,000.0	50.0	120.0
OS4	CCF Heater 4	4.5 MMBTU/hr Heater No. 4 - Co-Composting Facility	Normal - Steady State	E29	CD4 (P)	PT10	1-05-001-10	0.0	8,760.0		30,000.0	270,000.0	50.0	120.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
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Date: 9/29/2020

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

**U 9 Carbon Silo One Dust - Powdered Activated Carbon Silo**

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	Carbon Silo	Dust-Powdered Activated Carbon Silo	Normal - Steady State	E1	CD6 (P)	PT12		0.0	6.0		600.0	600.0	60.0	60.0

**U 11 L.Treatment One Leachate Treatment System**

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	L. Surge Tk	Leachate Surge Tank (200,000 gallons) with Vapor Pressure <= 0.02 psia	Normal - Steady State	E5		PT15	5-02-800-01	0.0	8,760.0		134.0	134.0	65.0	65.0
OS2	Storage Tank	Leachate Storage Tank (200,000 gal) with Vapor Pressure <= 0.02 psia	Normal - Steady State	E4		PT15 PT16	5-02-800-01	0.0	8,760.0	A	0.0	10.0	35.0	65.0
OS3	Equaliz Tank	Aeration Flow Equalization Tank (30,000 gallons) with Vapor pressure <= 0.02 psia	Normal - Steady State	E501				0.0	8,760.0		400.0	450.0	55.0	65.0
OS4	Aeration Tk1	Main Aeration Tank (190,700 gallons) with Vapor pressure <= 0.02 psia	Normal - Steady State	E3				0.0	8,760.0	A	400.0	800.0	55.0	65.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)  
BOP200001**

Date: 9/29/2020

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

**U 11 L.Treatment One Leachate Treatment System**

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.
OS5	Aeration Tk2	Secondary Aeration Tank (35,800 gallons) with Vapor pressure <= 0.02 psia	Normal - Steady State	E502	CD7 (P)	PT502	5-02-800-01	0.0	8,760.0		0.0	400.0	0.0	65.0
OS6	Sludge Tank	Aerated Sludge Tank (35,500 gallons) with Vapor pressure <= 0.02 psia	Normal - Steady State	E2	CD7 (P)		5-02-800-01	0.0	8,760.0		300.0	400.0	55.0	65.0

**U 19 LST # 3 One Leachate Storage Tank No. 3 ( 1 million gallon) with Vapor pressure <= 0.02 psia**

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	LST #3	Leachate Storage Tank No. 3	Normal - Steady State	E19		PT29 PT291 PT292 PT293	5-01-004-06	0.0	8,760.0		0.0	88.9	50.0	80.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP200001**

Date: 9/29/2020

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

**U 20 Micro Turbin Four (4) Micro-Turbines**

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	Micro-1	Greenhouse Microturbine 1-Landfill Gas	Normal - Steady State	E2201			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS2	Micro-2	Greenhouse Microturbine 2-Landfill Gas	Normal - Steady State	E2202			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS3	Micro-3	Greenhouse Microturbine 3-Landfill Gas	Normal - Steady State	E2203			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS4	Micro-4	Greenhouse Microturbine 4-Landfill Gas	Normal - Steady State	E2204			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS5	Micro-1	Greenhouse Microturbine 1-Natural Gas	Normal - Steady State	E2201			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0
OS6	Micro-2	Greenhouse Microturbine 2-Natural Gas	Normal - Steady State	E2202			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0
OS7	Micro-3	Greenhouse Microturbine 3-Natural Gas	Normal - Steady State	E2203			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0
OS8	Micro-4	Greenhouse Microturbine 4-Natural Gas	Normal - Steady State	E2204			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

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**BOP200001**

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

**U 21 (1) MicroTu5 One (1) Microturbine 5**

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.
OS2	Micro5-LFG	Microturbine No 5 Landfill Gas	Normal - Steady State	E23		PT20	2-01-008-01	0.0	8,760.0		0.0	4,340.0	300.0	545.0

**U 30 LFG to Energ Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System**

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.
OS11	LFG Eng # 1	Engine # 1 firing landfill gas, Normal Operation	Normal - Steady State	E31		PT41	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS12	LFG Eng # 2	Engine # 2 firing landfill gas, Normal Operation	Normal - Steady State	E32		PT42	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS13	LFG Eng # 3	Engine # 3 firing landfill gas, Normal Operation	Normal - Steady State	E33		PT43	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS14	LFG Eng # 4	Engine # 4 firing landfill gas, Normal Operation	Normal - Steady State	E34		PT44	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS15	LFG Eng # 5	Engine # 5 firing landfill gas, Normal Operation	Normal - Steady State	E35		PT45	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS16	Eng Prettrmt	Pretreatment Devices TSA, Venture off gas & Abutec flare	Normal - Steady State	E2205	CD9 (P)	PT46		4,380.0	5,000.0		0.0	2,000.0	1,400.0	1,800.0
OS21	Eng1 Start-U	Engine # 1 firing Landfill Gas, Start-up Periods	Startup	E31		PT41	2-01-008-02							
OS22	Eng2 Start-U	Engine # 2 firing Landfill Gas, Start-up Periods	Startup	E32		PT42	2-01-008-02							

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

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

**U 30 LFG to Energ Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System**

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.
OS23	Eng3 Start-U	Engine # 3 firing Landfill Gas, Start-up Periods	Startup	E33		PT43	2-01-008-02							
OS24	Eng4 Start-U	Engine # 4 firing Landfill Gas, Start-up Periods	Startup	E34		PT44	2-01-008-02							
OS25	Eng5 Start-U	Engine # 5 firing Landfill Gas, Start-up Periods	Startup	E35		PT45	2-01-008-02							
OS26	Startup -CD9	Abutec flare (Enclosed Flare - 6) – start up	Startup	E2205		PT46		0.0	365.0					

**U 36 TS-1 One Trommel Screen for Wood Chips and Landfill Cover**

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	Trommel ICE	Trommel Screen No. 1 Engine	Normal - Steady State	E36		PT35	2-02-001-02	0.0	500.0		908.0	1,497.0	898.0	923.0
OS2	Trommel Scr.	Trommel Screen No. 1	Normal - Steady State	E37		PT36	3-05-106-04	0.0	500.0				0.0	100.0
OS3	Trommel Conv	Trommel Screen No. 1 Conveyor	Normal - Steady State	E38		PT37	3-05-106-04	0.0	500.0				0.0	100.0

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**U 38 Diamond Z Diamond Z Horizontal Grinder and Engine**

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	DZ Engine	Diamond Z CAT Engine	Normal - Steady State	E600		PT599 PT600		0.0	1,000.0		1,000.0	1,847.0	800.0	900.0
OS2	DZ Grinder	Diamond Z Grinder Operation	Normal - Steady State	E601		PT601		0.0	1,000.0		0.0	15.0	0.0	100.0
OS3	DZ Infeed	Diamond Z Infeed Conveyor	Normal - Steady State	E602		PT602		0.0	1,000.0		0.0	15.0	0.0	100.0
OS4	DZ Outfeed 1	Diamond Z Discharge Conveyor 1	Normal - Steady State	E603		PT603		0.0	1,000.0		0.0	15.0	0.0	100.0
OS5	DZ Outfeed 2	Diamond Z Discharge Conveyor 2	Normal - Steady State	E604		PT604		0.0	1,000.0		0.0	15.0	0.0	100.0

**U 40 DZ 1463 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder**

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	Tub Engine	One 7.45 MMBTU/hr - Diesel - CAT C27 Engine	Normal - Steady State	E400		PT399 PT400		0.0	1,000.0		1,569.0	1,769.0	745.0	875.0
OS2	Tub Grinder	DZ 1463 Tub Grinder	Normal - Steady State	E401		PT401		0.0	1,000.0		0.0	15.0	0.0	100.0
OS3	Tub Conveyor	Tub Grinder Conveyor	Normal - Steady State	E402		PT402		0.0	1,000.0		0.0	15.0	0.0	100.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

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

**U 40 DZ 1463 One 7.45 MMBTU/hr - Diesel Engine and DZ 1463 Tub Grinder**

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.
OS4	Tub Outfeed	Tub Grinder Outfeed Conveyor	Normal - Steady State	E403		PT403		0.0	1,000.0		0.0	15.0	0.0	100.0

**U 50 Doppstadt Doppstadt Screen at CoComposting Facility**

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	Deutz AG	One Diesel Doppstadt Screen Engine 0.93MMBTU/hr	Normal - Steady State	E50		PT50		0.0	2,500.0		500.0	1,500.0	700.0	900.0
OS2	Dopp Screen	Doppstadt Screen	Normal - Steady State	E51		PT51		0.0	2,500.0		0.0	15.0	0.0	100.0
OS3	Dopp Convey1	Doppstadt Screen Conveyor 1	Normal - Steady State	E52		PT52		0.0	2,500.0		0.0	15.0	0.0	15.0
OS4	Dopp Convey2	Doppstadt Screen Conveyor 2	Normal - Steady State	E53		PT53		0.0	2,500.0		0.0	15.0	0.0	15.0