



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

SHAWN M. LATOURETTE
Commissioner

TAHESHA L. WAY
Lt. Governor

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

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP230001

Program Interest Number: 65582

Mailing Address	Plant Location
JULIE ACTON EXECUTIVE DIRECTOR SALEM CNTY IMPROVEMENT AUTH PO BOX 89 286 WELCHVILLE RD ALLOWAY, NJ 08001	SALEM COUNTY SOLID WASTE FACILITY 286 WELCHVILLE RD Alloway Salem County

Initial Operating Permit Approval Date: August 1, 2011
Operating Permit Approval Date: DRAFT
Operating Permit Expiration Date: July 31, 2021 (Operating Under 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

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <https://dep.nj.gov/boss>. 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 <https://dep.nj.gov/boss>.

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](https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf) available at <https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf>.

If you have any questions regarding this permit approval, please call Nipul Patel at (609) 940-5652.

Approved by:

Shafi Ahmed

Enclosure

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

Facility Name: SALEM COUNTY SOLID WASTE FACILITY
Program Interest Number: 65582
Permit Activity Number: BOP230001

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Section A

Facility Name: SALEM COUNTY SOLID WASTE FACILITY

Program Interest Number: 65582

Permit Activity Number: BOP230001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs* (total)	CO ₂ e ²
Emission Units Summary	0.62	11.01	29.42	12.0	1.484	0.764	0.4	NA	7.83	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	0.62	11.01	29.42	12.0	1.484	0.764	0.4	NA	7.83	164,650

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	0.47	0.01	0.01	NA	NA	NA	NA	NA	NA
Non-Source Fugitive Emissions ³	NA	NA	NA	NA	100.0	10.0	NA	NA	NA

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: 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

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: 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.

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

² Total CO₂e emissions for the facility.

³ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: SALEM COUNTY SOLID WASTE FACILITY

Program Interest Number: 65582

Permit Activity Number: BOP230001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Acrylonitrile	0.28
Benzene	0.123
Ethylidene dichloride	0.2
Formaldehyde	0.004
Mercury (total)	0.00005
Methylene chloride	1.0
Tetrachloroethane	3.01
1,1,2,2-Tetrachloroethane	0.16
Toluene	3.01
Vinyl chloride	0.04

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

Other Air Contaminant	TPY
Methane	6727
Hydrogen Sulfide	10.0

⁴ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: SALEM COUNTY SOLID WASTE FACILITY

Program Interest Number: 65582

Permit Activity Number: BOP230001

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)1]
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 <https://dep.nj.gov/boss/applications-and-forms/> (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: <https://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]
25. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: SALEM COUNTY SOLID WASTE FACILITY

Program Interest Number: 65582

Permit Activity Number: BOP230001

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	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: SALEM COUNTY SOLID WASTE FACILITY

Program Interest Number: 65582

Permit Activity Number: BOP230001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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Facility (FC):

FC	1
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Insignificant Sources (IS):

IS NJID	IS Description	
IS1	Diesel Fuel, #2 Fuel Oil Tank(s)	7
IS2	Two Waste Oil Tank(s): One (1) 500 gallon used motor oil tank; One (1) 150 gallon used cooking oil tank	8
IS3	Two Hydraulic Oil Tank(s): 275 gallon hydraulic oil tank each.	9
IS5	Two Leachate Tank(s): One (1) 200,000 gallon tank; one (1) 500,000 gallon tank	10
IS6	Airman Power Pro25 Power Generator, 2010 model #SDG25, 25.7 KW, 34.1 HP @ 1750 RPM.	11
IS7	Two Power Generators: One (1) 2016 Generac GP 6500, Model 5940, 12 HP, 6.5 kW; and 2004 Honda Generator, Model #EB11, 23 HP, 10.5 kW	12

Emission Units (U):

U NJID	U Designation	U Description	
U1	Landfill	Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to NSPS XXX and NESHAP AAAA	13
U8	Em Generator	Emergency Generator, 1.16 MMBtu/hr, 104 KW, 139 HP, Subject to NSPS IIII	56
U10	Shredder	Waste Shredder Powered by a 525 HP Diesel Engine	66

**SALEM COUNTY SOLID WASTE FACILITY (65582)
BOP230001**

Date: 2/8/2024

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

Permit Being Modified

Permit Class: BOP **Number:** 180001

Description of Modifications: The Salem County Improvement Authority would like to add a Waste Shredder to their Title V permit for the Salem County Solid Waste Facility. The waste shredder will be used to shred waste prior to waste disposal in order to increase waste density and extend the life of the landfill.

BOP230001

**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.

BOP230001

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C. 7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C. 7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

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Facility Specific Requirements**

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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing during the expired permit term, remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [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**

Subject Item: IS1 Diesel Fuel, #2 Fuel Oil Tank(s)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(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	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.
3	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	Any tank's potential to emit any Group 1 or Group 2 TXS (or a combination thereof) shall not exceed a rate greater than 0.1 pounds per hour. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS2 Two Waste Oil Tank(s): One (1) 500 gallon used motor oil tank; One (1) 150 gallon used cooking oil tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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.
2	Any tank's potential to emit any Group 1 or Group 2 TXS (or a combination thereof) shall not exceed a rate greater than 0.1 pounds per hour. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS3 Two Hydraulic Oil Tank(s): 275 gallon hydraulic oil tank each.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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.
2	Any tank's potential to emit any Group 1 or Group 2 TXS (or a combination thereof) shall not exceed a rate greater than 0.1 pounds per hour. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: IS5 Two Leachate Tank(s): One (1) 200,000 gallon tank; one (1) 500,000 gallon tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The concentration in the water of any TXS must be less than 100 ppb by weight or the total concentration in the water of VOC must be less than 3,500 ppb by weight. [N.J.A.C. 7:27-22.1]	The permittee shall sample the leachate entering the tanks on an annual basis. The sample shall be analyzed for Volatile Organic Compounds and Toxic Substances listed in N.J.A.C. 7:27-17. Monitored by grab sampling annually. [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)]	Submit a report: Upon occurrence of event to the Enforcement Office if the TXS limit exceeds. [N.J.A.C. 7:27-22.16(o)]

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

Subject Item: IS6 Airman Power Pro25 Power Generator, 2010 model #SDG25, 25.7 KW, 34.1 HP @ 1750 RPM.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The generator (Airman Power Pro25, Model #SDG25) shall be used during poweroutages or where electricity is not available. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
2	Hours of Operation: The use of the generator shall be recorded. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor each month during operation. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(a)]	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.

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

Subject Item: IS7 Two Power Generators: One (1) 2016 Generac GP 6500, Model 5940, 12 HP, 6.5 kW; and 2004 Honda Generator, Model #EB11, 23 HP, 10.5 kW

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The approved two (2) portable generators shall be used to power portable pumps and small electrically driven equipment at distant area within the property lines and any equipment where the electrical power is not available. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	This generator shall be using gasoline as fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Hours of Operation: The use of the generator shall be recorded. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor each month during operation. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(a)]	None.
4	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.
5	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.
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U1 Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to NSPS XXX and NESHAP AAAA
Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Subject to: NSPS Subpart A - General Provisions; NSPS Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014; MACT Subpart A - General Provisions; NESHAP Subpart AAAA - Municipal Solid Waste Landfills. [N.J.A.C. 7:27-22]	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
2	<p>RENEWAL STACK TESTING SUMMARY:</p> <p>The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit (The first renewal stack testing shall be conducted at least 18 months prior to July 31, 2021) using an approved protocol to demonstrate compliance with emission limits for the NMOC (Non-Methane Organic Compound) Destruction and Removal efficiency (DRE), O₂, VOC (inlet and outlet), NO_x, CO, TSP and SO₂ as specified in the compliance plan for OS1 (Enclosed flare).</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. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<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: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit.</p> <p>The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</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>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Opacity: There shall be no visible emissions, exclusive of condensed water vapor from the flare of the landfill. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation (once a month), based on any consecutive 30-minute period, when flare is operated for more than 3 hours during daytime workday hours. 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 (See Applicable Requirement). 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; (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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation 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)]	Comply with the requirement: As per the approved schedule. The permittee shall report permit violations (excess visible emissions) to the Enforcement Office if the Opacity limit exceeds. The exceedance shall be included in the six month deviation report, as required by paragraph 13 in Section E, General Provisions and Authorities, of this permit. [N.J.A.C. 7:27-22.16(o)]
4	Design Capacity: The Total Design Capacity of the Landfill = 8,265,556 Cubic Yards 5.372611 Million Megagrams), per Solid Waste Major Modification Permit Number LOP090002 approved on 7/11/2011. Actual date of horizontal expansion/Construction began on Cells 11A and 11B on July 11, 2016. [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
5	Total cumulative gas flow to the enclosed flare \leq 525.6 MMscf in any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Monitored by gas flow rate instrument continuously to the enclosed flare (in scfm) during operation. 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)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously during operation. Cubic feet per consecutive 12-month period shall be calculated by the sum of cubic feet during any one month added to the sum of cubic feet during the preceeding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
6	NOx (Total) \leq 7.88 tons/yr for the enclosed flare. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO \leq 26.28 tons/yr for the enclosed flare. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) \leq 0.44 tons/yr for the enclosed flare. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 \leq 12 tons/yr for the enclosed flare. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Methane \leq 6,727 tons/yr. Total (captured and uncaptured) emissions from the landfill. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Methane \leq 2,691 tons/yr. Fugitive (uncaptured) emissions from the landfill, based on assumed 60% collection system efficiency. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	HAPs (Total) \leq 7.82 tons/yr. Total (captured and uncaptured) emissions from the landfill. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Acrylonitrile \leq 0.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Benzene \leq 0.12 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Ethylidene dichloride \leq 0.2 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U1 Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to

OS Summary

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Methylene chloride (Dichloromethane) <= 1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Mercury compounds <= 0.00005 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Tetrachloroethylene <= 3.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Tetrachloroethane (1,1,2,2-) <= 0.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Toluene <= 3.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Vinyl chloride <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	H2S <= 10 tons/yr. Total (captured and uncaptured) emissions from the landfill, based on 2044 LANDGEM result and H2S concentration in landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	H2S <= 350 ppmv in landfill gas. [N.J.A.C. 7:27-22.16(a)]	<p>H2S: 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, based on the averaging period as per approved sampling protocol.</p> <p>If after 8 quarters of sampling, the landfill gas quality does not exceed applicable thresholds, sampling and analysis will be conducted on an annual basis. The Department reserves the right to change the frequency of sampling based on a review of the lab analysis results. [N.J.A.C. 7:27-22.16(o)]</p>	<p>H2S: Recordkeeping by certified lab analysis results quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	H2S <= 30 ppbv averaged over any 30-minute period at or beyond the property line of the landfill. [N.J.A.C. 7:27- 7.3]	<p>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.</p> <p>1. Periodic emission monitoring system approved, by Department's Bureau of Air Monitoring, shall be used to obtain a 30-minute average (5 minute block basis) reading.</p> <p>2. Monitoring shall be performed downwind of the landfill at the property's fenceline. [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 upon occurrence of event.</p> <p>Record Date, Time, Name of Persons conducting monitoring, Wind Speed, Wind Direction, Location of Measurement and H2S concentrations.</p> <p>The facility must keep records for 5 years and shall be readily available upon the Department's request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit an equipment protocol: Within 30 days from the date of the approved permit , submit 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 Guidance document can be found at NJDEP website at the following link: http://www.state.nj.us/dep/aqpp/permitguide/FencelineMonitoringPlanGuidance2015.pdf</p> <p>The applicant shall begin the H2S periodic emissions monitoring within 90 days of protocol approval by the Department. If the H2S ambient concentration at the facility's fenceline exceeds 30 ppbv, contact the NJDEP Hotline at 1-877-927-6337 immediately. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	<p>The owner or operator must operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill to ensure that the collection system is operating effectively.</p> <p>The surface testing must be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover and all cover penetrations.</p> <p>A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals.</p> <p>The owner or operator must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [N.J.A.C. 7:27-22.16(a)]</p>	<p>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. 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 using an organic vapor analyzer.</p> <p>The background concentration must 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 must be performed in accordance with section 8.3.1 of Method 21 of appendix A to 40 CFR 60, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions. [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 quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Any reading of 500 ppm or more above background must be recorded as a monitored exceedance and the actions specified in Submittal/Action Requirement must be taken.</p> <p>The owner or operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the Applicable Requirement, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Demonstrate compliance: Upon occurrence of event. In case of an exceedance of 500 ppm methane concentration:</p> <p>(i) The location and concentration of each monitored exceedance must be marked and recorded.</p> <p>(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells in the vicinity of each exceedance must be made and the location must be re-monitored within 10 calendar days of detecting the exceedance.</p> <p>(iii) If the re-monitoring shows a second exceedance, additional corrective action must be taken and the location must be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action in (v) must be taken.</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 must be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in (iii) or (v) must be taken.</p> <p>(v) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device must be installed within 120 calendar days of the initial exceedance. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	VOC (Total) <= 6.71 tons/yr uncollected (fugitive) emissions. Annual emission limit based on the expected gas generation and based on assumed 60% collection system efficiency. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	None.
27	Greenhouse gases as CO ₂ e <= 164,649.57 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	The Permittee shall sample and analyze the landfill gas (including methane, non-methane hydrocarbons, total reduced sulfur, toxic volatile organic substances and HAPS concentration) on an quarterly basis. [N.J.A.C. 7:27-22.16(a)]	Monitored by gas sampling quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year, based on the averaging period as per approved sampling protocol. If after 8 quarters of sampling, the landfill gas quality does not exceed applicable thresholds, sampling and analysis will be conducted on an annual basis. The Department reserves the right to change the frequency of sampling based on a review of the lab analysis results. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by certified lab analysis results quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee must maintain calculations of the applicable emissions based on the lab analysis results. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of sampling to Southern Regional Enforcement Office. [N.J.A.C. 7:27-22.16(o)]
29	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.4(a)]	None.	None.	Other (provide description): As per the approved schedule , submit reports to EPA Region II as required by 40 CFR 60. Submit Information to: Chief, Air Compliance Branch, Division of Enforcement and Compliance Assistance, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]
30	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the appropriate Regional Enforcement Office of NJDEP. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.4(b)]	None.	None.	Other (provide description): As per the approved schedule , submit reports to the appropriate Regional Enforcement Office as required by 40 CFR 60. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	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 section 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. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event submit notification to EPA Region II and the appropriate Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
32	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. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.7(b)]	None.	Other: Manual logging of Parameter (Permanently Bound). Upon occurrence of event.[40 CFR 60.7(b)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see section 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.7(c)]	Other: Perform monitoring in accordance with 40 CFR 60.13.[40 CFR 60.7(c)].	Other: Written reports of excess emissions shall include the following information: (1) The magnitude of excess emissions computed in accordance with section 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period and excess emissions. The process operating time during the reporting period. (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].	Other (provide description): As per the approved schedule submit report by the 30th day following the end of each calendar half. The reports shall be submitted to Chief, Air Compliance Branch, Division of Enforcement and Compliance Assistance, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866., the appropriate NJDEP Regional Enforcement Office, and Chief, Emission Measurement Section, NJDEP, Mail Code: 380-01A, P.O. Box-420, Trenton, NJ 08625. [40 CFR 60.7(c)]
34	Any owner or operator subject to the provisions of this part shall maintain a file of 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; adjustments and maintenance performed on these systems or devices ; and all other information required by this part recorded in a permanent form suitable for inspection. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement[40 CFR 60.7(f)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	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. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.11(d)]	None.	None.	None.
36	No owner or operator subject to the provisions of this part 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. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.12]	None.	None.	None.
37	All continuous monitoring systems or monitoring devices shall be installed such that representative process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring system contained in the applicable Performance Specifications of Appendix B of 40 CFR 60 shall be used. [NSPS 40 CFR 60 Subpart A - General Provisions]. [40 CFR 60.13(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	<p>The owner or operator shall submit to the Administrator a non-methane organic compounds (NMOC) emission rate report using procedure specified at 40 CFR 60.764(a)(1). The owner an operator shall recalculate non-methane organic compounds (NMOC) emission rate annually until such time as the calculated NMOC emission rate is equal to or greater than 34 megagrams per year, or the landfill is closed. If the estimated NMOC emission rate is less than 34 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report, per 40 CFR 60.767(b)(1)(ii).</p> <p>Per 40 CFR 60.767(b)(1)(i), the initial NMOC emission rate report may be combined with the initial design capacity report required in 40 CFR 60.767(a). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(1)]</p>	<p>Monitored by calculations annually. The NMOC mass emission rate shall be recalculated annually. [40 CFR 60.764(a)(1)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [40 CFR 60.764(a)]</p>	<p>Submit a report: Annually. Submit an initial NMOC mass emission rate report electronically to the Administrator by November 28, 2016 for landfills that commenced construction, modification, or reconstruction before August 29, 2016; or ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction after August 29, 2016. Subsequent NMOC reports shall be submitted annually thereafter. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI.</p> <p>The report is no longer required after the owner or operator installs and operates in compliance with 40 CFR 60.763 and 60.765, a collection and control system that complies with 40 CFR 60.762(b)(2). [40 CFR 60.767(b)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), submit a collection and control system design plan to the Administrator for approval. The collection and control system shall meet the design requirements in 40 CFR 60.762(b)(2)(ii) and (b)(2)(iii). The collection and control system design plan must be prepared and approved by a professional engineer and must meet the requirements in 40 CFR 60.767(c). The collection and control system design plan must conform with specifications for active collection systems in 40 CFR 60.769.</p> <p>Per 40 CFR 60.767(d), submit a revised collection and control system design plan as follows: (1) at least 90 days before expanding operations to an area not covered by the previously approved design plan; (2) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan previously submitted to the Administrator. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(2)(i)]</p>	None.	None.	<p>Submit a plan: Once initially. The collection and control system design plan shall be submitted to the Administrator for approval within 1 year of the NMOC emission rate report that shows the NMOC emissions equal to or greater than 34 megagrams per year. The Administrator must either approve, disapprove, or request additional information. If the Administrator does not approve or disapprove the design plan, or does not request the additional information within 90 days of receipt, then the owner or operator may continue with implementation of the design plan, recognizing they would be proceeding at their own risk.</p> <p>The revised collection and control system design plan shall be submitted in accordance with the schedule in 40 CFR 767(d). [40 CFR 60.767(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must install and start up an active collection and control system within 30 months after the first annual report in which the NMOC emission rate equals to or exceeds 34 megagrams per year.</p> <p>The active collection system must:</p> <p>(1) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;</p> <p>(2) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade.</p> <p>(3) Collect gas at a sufficient extraction rate;</p> <p>(4) Be designed to minimize off-site migration of subsurface gas.</p> <p>The gas collection system must be constructed using the equipment or processes described in 40 CFR 60.769(b). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(2)(ii)]</p>	<p>Other: The owner or operator shall determine whether the gas collection system is in compliance with 40 CFR 60.762(b)(2)(ii) using procedures in 40 CFR 60.765(a)(1) - calculating the maximum expected gas generation flow rate, (a)(2) - determining the density of gas collectors and (a)(3) - determining whether the gas collection system flow rate is sufficient. [40 CFR 60.765(a)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep up-to-date, readily accessible records for the life of the control system of the data in 40 CFR 60.768(b)(1) through (b)(5) as measured during the initial performance test or compliance demonstration. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years.</p> <p>Per 40 CFR 60.768(c)(5), the owner or operator must keep records of periods when the collection system or control device is not operating. [40 CFR 60.768(b)(1)]</p>	<p>Submit a report: Annually. Submit an annual report electronically to Administrator. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX).</p> <p>If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI.</p> <p>The report shall include all the information required in 40 CFR 60.767(g)(1) through (g)(7). The initial annual report shall be submitted within 180 days of installing and startup of the collection and control system and must include the initial performance test report required under 40 CFR 60.8 and 40 CFR 60.767(h), as applicable. [40 CFR 60.767(g)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), route all the collected gas to either control system:</p> <p>(A) A non-enclosed flare designed and operated in accordance with the parameters established in 40 CFR 60.18;</p> <p>(B) A control system designed and operated to reduce NMOC by 98 weight percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen;</p> <p>(C) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or beneficial use. Venting of treated landfill gas to the ambient air is not allowed. The treated landfill gas that cannot be routed for subsequent sale or beneficial use and all emissions from any atmospheric vent from the gas treatment system must be controlled according to either (A) or (B).</p> <p>The landfill gas must be conveyed to a control system through the collection header pipe(s). The gas mover equipment must be sized to handle the maximum gas generation flow rate, per 40 CFR 60.769(c). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(2)(iii)]</p>	<p>Monitored by stack emission testing once initially. The owner or operator shall demonstrate compliance by the performance tests required in 40 CFR 60.762(b)(2)(iii)(A) and (B) using test methods in 40 CFR 60.764(d) for an enclosed flare or 40 CFR 60.764(e) for an open flare, as applicable. The initial performance test is to be completed no later than 180 days after the initial startup of the approved control system. [40 CFR 60.764(e)] and [40 CFR 60.764(d)]</p>	<p>Recordkeeping by stack test results once initially. The owner or operator must keep up-to-date, readily accessible records for the life of the control system of the data in 40 CFR 60.768(b)(1) through (b)(5) as measured during the initial performance test or compliance demonstration. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. [40 CFR 60.768(b)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: Once initially. Submit the results of the performance tests, including associated fuel analyses required by 40 CFR 60.764(b) for a collection and control system or by 40 CFR 60.764(d) for an enclosed flare, electronically to Administrator, within 60 days after completing each test.</p> <p>For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (https://www3.epa.gov/ttn/chief/ert/ert_info.html) at the time of the test, submit the results of the performance test to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, submit the results of the performance test to the Administrator at the address listed in 40 CFR 60.4.</p> <p>If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI.</p> <p>The report shall include all the information required in 40 CFR 60.767(c)(4)(iii). [40 CFR 60.764(e)(1)(iii)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the control device must be operated within the parameters established during the initial or most recent performance test. The operating parameters to be monitored are specified in 40 CFR 60.766(b) or (c). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(2)(iiiB2)]	Monitored by other method (provide description) at the approved frequency. The operating parameters to be monitored are specified in 40 CFR 60.766(b) or (c). [40 CFR 60.766]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. on-site records. [40 CFR 60.768(b)]	None.
43	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the collection and control system may be capped, removed or decommissioned if (A) a landfill is closed and a closure report has been submitted to the Administrator; (B) the collection system has been in operation a minimum of 15 years or the owner or operator demonstrates that the GCCS will be unable to operate for 15 years due to declining gas flow; and (C) the calculated NMOC emission rate based on the procedures specified in 40 CFR 60.764(b) is less than 34 megagrams per year on three successive test dates. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.762(b)(2)(v)]	Monitored by calculations upon occurrence of event. The owner or operator must calculate the NMOC emission rate in accordance with 40 CFR 60.764(b) based on the measurements of the total flow rate and the average NMOC concentration. The test dates must be no less than 90 days apart, and no more than 180 days apart, per 40 CFR 60.762(b)(2)(v)(C). [40 CFR 60.764(b)]	None.	Submit a report: Upon occurrence of event. The owner or operator of a controlled landfill must submit an equipment removal report 30 days prior to removal or cessation of operation of the control equipment. The equipment removal report must contain all of the following items described under 40 CFR 60.767(f)(1)(i) through (1)(iii), such as closure report; initial performance test report; and dated three successive NMOC rate reports. The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 60.762(b)(2)(v) have been met. [40 CFR 60.767(f)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the collection system shall be operated such that gas is collected from each area, cell, or group of cells in the MSW Landfill in which solid waste has been in place for: (1) 5 years or more if active; or (2) 2 years or more if closed or at final grade. Each well or designed component must be placed as specified in the approved design plan as provided in 40 CFR 60.767(c). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(a)]</p>	<p>Other: Each well must be installed no later than 60 days after the date on which the initial 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 60.765(b)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep for at least 5 years up-to-date, readily accessible, on-site records of the collection and control system design plan, the current amount of solid waste in place, and the year-by-year waste acceptance rate.</p> <p>Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.768(a)]</p>	<p>Demonstrate compliance: As per the approved schedule. The owner or operator must operate the collection system in accordance with an approved collection and control system design plan. [40 CFR 60.767(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must 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 must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the required annual reports. (2) use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits in the design plan; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows.</p> <p>Per 40 CFR 60.765(a)(3), if a positive pressure exists, action must be initiated to correct the exceedance within 5 calendar days. Any attempted corrective measure must not cause exceedances of other operational or performance standards. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(b)]</p>	<p>Monitored by pressure measurement device each month during operation. Measure the gauge pressure in the gas collection header applied to each individual well. [40 CFR 60.765(a)(3)] and [40 CFR 60.766(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 must 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 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.</p> <p>Also, the owner or operator must keep record of instances when positive pressure occurs in efforts to avoid a fire.</p> <p>Per 40 CFR 60.768(e)(4), keep a record on the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for actions(s) not already completed, a schedule for implementation. [40 CFR 60.768(e)(1)]</p>	<p>Comply with the requirement: Upon occurrence of event. The owner or operator must conduct a root cause analysis and initiate the corrective actions and correct the exceedance as soon as practicable but no later than 60 days after positive pressure was first measured. The corrective actions and corresponding implementation timeline must be submitted to the Administrator as part of the next annual report. [40 CFR 60.767(j)] and [40 CFR 60.765(a)(3)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), operate each interior wellhead in the collection gas system with a landfill gas temperature less than 55 degrees Celsius.</p> <p>Per 40 CFR 60.765(a)(5), if a well exceeds the operating parameter for temperature, action must be initiated to correct the exceedance within 5 calendar days. Any attempted corrective measure must not cause exceedances of other operational or performance standards. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(c)]</p>	<p>Monitored by temperature instrument each month during operation. Install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead. The temperature measuring device must be calibrated annually using the procedures in 40 CFR 60, Appendix A-1, Method 2, Section 10.3. [40 CFR 60.766(a)(3)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must 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 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.</p> <p>The owner or operator must also keep records of each wellhead temperature monitoring value of 55 degrees Celsius (131 degrees Fahrenheit) or above, each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent.</p> <p>Per 40 CFR 60.768(e)(4), keep a record on the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for actions(s) not already completed, a schedule for implementation.</p> <p>[40 CFR 60.768(e)(2)]</p>	<p>Comply with the requirement: Upon occurrence of event. The owner or operator must conduct a root cause analysis and correct the exceedance as soon as practicable but no later than 60 days after a landfill gas temperature greater than 55 degrees Celsius was first measured. The corrective actions and corresponding implementation timeline must be submitted to the Administrator as part of the next annual report. [40 CFR 60.767(j)] and [40 CFR 60.765(a)(5)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
47	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill.</p> <p>The surface testing must be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover and all cover penetrations.</p> <p>A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals.</p> <p>The owner or operator must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis per 40 CFR 60.765(c)(5). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(d)]</p>	<p>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. 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 using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.765(d).</p> <p>The background concentration must 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 must be performed in accordance with section 8.3.1 of Method 21 of appendix A to 40 CFR 60, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions. [40 CFR 60.765(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. Any reading of 500 ppm or more above background must be recorded as a monitored exceedance and the actions specified in 40 CFR 60.765(c)(4)(i) through (v) must be taken.</p> <p>The owner or operator must 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 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.</p> <p>[40 CFR 60.765(c)(4)]</p>	<p>Demonstrate compliance: Upon occurrence of event. In case of an exceedance of 500 ppm methane concentration:</p> <p>i) The location and concentration of each monitored exceedance must be marked and recorded. (ii) Cover maintenance or adjustments to the vacuum of the adjacent wells in the vicinity of each exceedance must be made and the location must be re-monitored within 10 calendar days of detecting the exceedance. (iii) If the re-monitoring shows a second exceedance, additional corrective action must be taken and the location must be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action in (v) must be taken. (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 must be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in (iii) or (v) must be taken. (v) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device must be installed within 120 calendar days of the initial exceedance.</p> <p>[40 CFR 60.765(c)(4)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
48	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.762(b)(2)(iii). In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(e)]	None.	None.	Comply with the requirement: Upon occurrence of event. In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating. [40 CFR 60.763(e)]
49	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), operate the control system at all times when the collected gas is routed to the system. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.763(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
50	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the provisions of NSPS XXX apply at all times, including startup, shutdown or malfunction. During periods of startup, shutdown, and malfunction, the owner or operator must comply with the work practice specified in 40 CFR 60.763(e) (the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating) in lieu of the compliance provisions of 40 CFR 60.765. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.765(e)]	None.	None.	None.
51	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must monitor nitrogen or oxygen concentration in the landfill gas at each wellhead. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(a)(2)]	Monitored by periodic emission monitoring each month during operation. (i) The nitrogen level must be determined using Method 3C. (ii) The oxygen level must be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) (iii) A portable gas composition analyzer may be used to monitor the oxygen levels provided: (A) The analyzer is calibrated; and (B) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522-11. [40 CFR 60.766(a)(2)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must 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 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. The owner or operator must also keep records of each wellhead temperature monitoring value of 55 degrees Celsius (131 degrees Fahrenheit) or above, each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent. [40 CFR 60.768(e)(2)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
52	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must calibrate, maintain, and operate according to manufacturer's specifications, a temperature monitoring device to monitor the gas combustion temperature at an enclosed combustor. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(b)(1)]	Monitored by temperature instrument continuously. A temperature monitoring device shall have a minimum accuracy of \pm 1 percent of the temperature being measured expressed in degrees Celsius or \pm 0.5 degrees Celsius, whichever is greater. [40 CFR 60.766(b)(1)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 60.766(b)(1)]	Submit a report: Annually. The following exceedances must be recorded and reported in the annual report to the Administrator: All 3 hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees F) below the average combustion temperature during the most recent performance test. [40 CFR 60.768(c)(1)]
53	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must install, calibrate, and maintain a gas flow rate measuring device that must measure and record the flow to the enclosed combustor and bypass of the control device (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(b)(2)]	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must 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. [40 CFR 60.766(b)(2)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. Per 40 CFR 60.768(c)(2), the owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [40 CFR 60.766(b)(2)]	Submit a report: Annually. The annual report must include a description and duration of all periods when the gas stream was diverted from the control device or a treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 60.766. [40 CFR 60.767(g)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
54	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan to ensure the treatment system is operating properly for each intended end user of the treated landfill gas.</p> <p>The treatment monitoring plan shall include the following: Monitoring methods, frequencies, and operating ranges for each monitored operating parameter based on manufacturer's recommendations or engineering analysis for each intended end use of the treated landfill gas. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(g)]</p>	Other: Operate all monitoring systems in accordance with the site-specific treatment system monitoring plan. [40 CFR 60.766(g)].	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. At a minimum, records should include records of filtration, de-watering, and compression parameters that ensure the treatment system is operating properly for each intended end use of the treated landfill gas.</p> <p>Keep documentation of the monitoring methods and ranges, along with justification for their use; Identify who is responsible (by job title) for data collection; Processes and methods used to collect the necessary data; Description of the procedures and methods that are used for quality assurance, maintenance, and repair of all continuous monitoring systems.</p> <p>[40 CFR 60.768(b)(5)]</p>	Comply with the requirement: Once initially. The owner or operator must prepare site-specific treatment system monitoring plan as specified in 40 CFR 60.768(b)(5). [40 CFR 60.767(c)(7)]
55	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator must install, calibrate, and maintain according to manufacturer's specifications a gas flow rate measuring device that must measure and record the flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(g)]</p>	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must 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. [40 CFR 60.766(g)]	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. The owner or operator must maintain records of the flow of landfill gas to, and bypass of, the treatment system.</p> <p>Per 40 CFR 60.768(b)(5), the owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [40 CFR 60.768(b)(5)] and [40 CFR 60.768(c)(2)]</p>	Submit a report: Annually. The annual report must include a description and duration of all periods when the gas stream was diverted from the control device or a treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 60.766. [40 CFR 60.767(g)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
56	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the monitoring requirements for an open flare, enclosed combustor, and treatment system apply at all times that the affected source is operating, except for periods of monitoring system malfunctions, as defined in 40 CFR 60.766(g), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities.</p> <p>The owner or operator is required to complete monitoring system repairs and to return the monitoring system to operation as expeditiously as practicable. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.766(h)]</p>	None.	None.	None.
57	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator shall submit to the Administrator the initial design capacity report. The initial design capacity report must contain information specified in 40 CFR 60.767(a)(2)</p> <p>Per 40 CFR 60.767(b)(1)(i), the initial NMOC emission rate report may be combined with the initial design capacity report required in 40 CFR 60.767(a). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.767(a)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep readily accessible, on-site records of the annual recalculation of site specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.767(a)(2)(ii)]</p>	<p>Submit a report: Once initially to the Administrator by November 28, 2016 for landfills that commenced construction, modification, or reconstruction before August 29, 2016 or ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction after August 29, 2016.</p> <p>The Salem County Solid Waste Facility's design capacity report was submitted on November 11, 2016. [40 CFR 60.767(a)(1)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
58	The owner or operator of a controlled landfill must submit a closure report within 30 days of waste acceptance cessation. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filling a notification of modification as described under 40 CFR 60.7(a)(4). [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.767(e)]	None.	None.	Submit a report: Upon occurrence of event to the Administrator within 30 days of waste acceptance cessation. [40 CFR 60.767(e)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
59	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator of a controlled landfill must submit an annual report to the Administrator.</p> <p>For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.768(c) as follows: All 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.762(b)(2)(iii) was determined. If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.767(g)]</p>	None.	None.	<p>Submit a report: Annually. Submit an annual report electronically to Administrator. The initial annual report must be submitted within 180 days of installation and startup of the collection and control system and must include the initial performance test report required under 40 CFR 60.8 and 40 CFR 60.767(h), as applicable. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). The report shall include all the information required in 40 CFR 60.767(g)(1) through (g)(7):</p> <p>(1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.766(a), (b), (c), (d), and (g).</p> <p>(2) Description and duration of all periods when the gas stream was diverted from the control device or treatment system.</p> <p>(3) Description and duration of all periods when the control device or treatment system was not operating.</p> <p>(4) All periods when the collection system was not operating.</p> <p>(5) The location and concentration of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.763(d).</p> <p>(6) The date of installation and the location of each well or collection system expansion added.</p> <p>(7) For any corrective action analysis for which corrective actions take more than 60 days, the root cause analysis conducted, and, for action(s) not already completed, a schedule for implementation.</p> <p>[40 CFR 60.767(g)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
60	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), each owner or operator seeking to comply with 40 CFR 60.762(b)(2)(iii) must include the following information with the initial performance test report required under 40 CFR 60.8:</p> <p>(1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;</p> <p>(2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;</p> <p>(3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;</p> <p>(4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and</p> <p>(5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and</p> <p>(6) The provisions for the control of off-site migration. [40 CFR 60.767(h)]</p>	None.	None.	Submit a report: As per the approved schedule. [40 CFR 60.767(h)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
61	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), the owner or operator that has employed leachate recirculation within the last 10 years must submit information required in 40 CFR 60.767(k)(1) through (6) on an annual basis. [NSPS 40 CFR 60 Subpart XXX - Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014]. [40 CFR 60.767(k)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, the surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in the areas where leachate or liquids were applied. [40 CFR 60.768(j)]	<p>Submit a report: Annually. The initial annual report must be submitted to the Administrator no later than September 28, 2017 for landfills that commenced construction, modification, or reconstruction before August 29, 2016 or no later than 13 months after the date construction, modification, or reconstruction. Subsequent reports must be submitted no later than 365 days after the date of the previous report submittal. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX).</p> <p>The initial report must contain data for the initial annual reporting period as well as for each of the previous 10 years. All reports must include information in 40 CFR 60.767(k)(1) through (6) including: volume of leachate recirculated; total volume of all other liquids added; surface area over which the leachate and/or other liquids are applied; the total waste disposed and the annual waste acceptance in the areas with recirculated leachate and/or added liquids. If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4.</p> <p>Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI.</p> <p>[40 CFR 60.767(k)]</p>

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62	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. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.4(a)]	None.	None.	None.
63	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. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.4(b)]	None.	None.	None.
64	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. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
65	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). [MACT 40 CFR 63 Subpart A - General Provisions]. [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)]
66	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. [MACT 40 CFR 63 Subpart A - General Provisions]. [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.
67	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). [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.6(e)(3)(ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
68	The owner or operator of an affected source must keep records of actions taken during a startup, shutdown, or malfunction, which are consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan, including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the APC and monitoring equipment. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.6(e)(3)(iii)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & 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)]	Submit a report: Semiannually beginning within 6 months of initial start-up. 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. 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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
69	The owner or operator of an affected source must keep records of actions which are not consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan and, if the source exceeds any applicable emission limitation in the relevant emission standard, must report such actions to the Administrator. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & 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)]	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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
70	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. [MACT 40 CFR 63 Subpart A - General Provisions]. [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)]
71	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [MACT 40 CFR 63 Subpart A - General Provisions]. [40 CFR 63.6(f)(1)]	None.	None.	None.
72	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), existing affected sources and area sources must comply with the requirements of 40 CFR 63, Subpart A (General Provisions) and 40 CFR 63, Subpart AAAA (National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills) by January 16, 2004. [NESHAP 40 CFR 63, Subpart AAAA-Municipal Solid Waste Landfills.] [40 CFR 63.1945(f)] & [40 CFR 63.1955(b)]	None.	None.	None.
73	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected under 40 CFR 60.756(b)(1) of subpart WWW. [NESHAP 40 CFR 63, Subpart AAAA-Municipal Solid Waste Landfills.] [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]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
74	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), 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). [NESHAP 40 CFR 63, Subpart AAAA-Municipal Solid Waste Landfills.] [40 CFR 63.1960]	None.	Other: Maintain a current copy of the SSM plan on site. [40 CFR 63.1960] & [40 CFR 63.1980].	None.
75	<p>If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), for the purposes of the landfill monitoring and SSM plan 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. [NESHAP 40 CFR 63, Subpart AAAA-Municipal Solid Waste Landfills.] [40 CFR 63.1965]</p>	<p>Other: Averages are calculated in the same way as they are calculated in 40 CFR part 60, subpart WWW, except that the data collected during the events listed in paragraphs (a), (b), (c), and (d) of 40 CFR 63.1975 are not to be included in any average computed under 40 CFR 63 subpart AAAA:</p> <p>(a) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments; (b) Startups; (c) Shutdowns; (d) Malfunctions. [40 CFR 63.1975].</p>	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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
76	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), 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) as follows: all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. [NESHAP 40 CFR 63, Subpart AAAA-Municipal Solid Waste Landfills.] [40 CFR 63.1980(a)]	None.	None.	Submit a report: As per the approved schedule. 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)]
77	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), 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 \pm 1 percent of the temperature being measured expressed in degrees Celsius or \pm 0.5 degrees Celsius, whichever is greater. [NESHAP 40 CFR 63 Subpart AAAA - Municipal Solid Waste Landfills] and [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. See Applicable Requirement.[40 CFR 60.758(b)(2)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously. See Applicable Requirement. [40 CFR 60.758(c)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
78	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), 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. [NESHAP 40 CFR 63 Subpart AAAA - Municipal Solid Waste Landfills] and [40 CFR 60.756(b)(2)]	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)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously ; or manual logging of visual inspections (permanently bound), monthly. [40 CFR 60.756(b)(2)]	None.
79	If the NMOC emission report shows the NMOC emissions \geq 34 megagrams per year (Mg/yr), each owner or operator shall submit annual reports to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c) as follows: all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. [NESHAP 40 CFR 63 Subpart AAAA - Municipal Solid Waste Landfills] and [40 CFR 60.757(f)]	None.	None.	Submit a report: As per the approved schedule. The 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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Emission Unit: U1 Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to NSPS XXX and NESHAP AAAA

Operating Scenario: OS1 Normal Operation of Landfill Gas Enclosed Flare, 1000 CFM

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The existing enclosed flare shall be operated and maintained in accordance with the specifications provided by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain the manufacturer's specifications at the site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
2	The owner or operator shall inspect the flare annually to verify that the flare continues to be operated and maintained in accordance with the manufacturer's design specifications and recommendations for the operation of the flare. [N.J.A.C. 7:27-22.16(a)]	None.	The owner or operator shall record the following 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. 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)]	Comply with the requirement: Other : All records required to be kept as part of this permit shall be entered in a permanently bound log book or in readily accessible computer memories or by a method acceptable to the appropriate Regional Enforcement Office, and shall be made available to the representatives of the Department upon request. [N.J.A.C. 7:27-22.16(o)]
3	Flowrate <= 1,000 SCFM Maximum inlet landfill gas flow rate to the enclosed flare. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by gas flow rate instrument continuously (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 data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Maximum Gross Heat Input <= 32.75 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: The permittee shall maintain the manufacturer's specifications at the site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
5	NO _x (Total) <= 1.8 lb/hr from the flare. [N.J.A.C. 7:27-22.16(e)]	NO _x (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
6	CO <= 6 lb/hr from the flare. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit expiration date (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
7	VOC (Total) <= 0.1 lb/hr from the flare. [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 testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
8	SO ₂ <= 2.74 lb/hr from the flare. [N.J.A.C. 7:27-22.16(a)]	SO ₂ : Monitored by stack emission testing 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)]	SO ₂ : Recordkeeping by stack test results prior to permit expiration date (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]
9	NMOC <= 20 ppmv [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing 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)]	Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
10	NMOC Destruction and Removal Efficiency >= 98 %. [N.J.A.C. 7:27-22.16(e)]	Destruction and Removal Efficiency: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]	Destruction and Removal Efficiency: Recordkeeping by stack test results prior to permit expiration date (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (See stack testing requirements). [N.J.A.C. 7:27-22.16(o)]
11	H ₂ S <= 0.005 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
12	Minimum Operating Temperature at the Exit of the Combustion Section \geq 1,500 degrees F. at flare. [N.J.A.C. 7:27-22.16(a)]	Minimum Operating Temperature at the Exit of the Combustion Section: Monitored by temperature instrument continuously, based on 15 minute intervals. The monitor shall be equipped with a low temperature alarm, or other operational warning system, which notifies the operator the temperature of combustion by-products at flare exit has fallen below 1500 degrees Fahrenheit. The temperature sensor shall be installed at the exit of the combustion chamber and it shall be properly shielded from direct contact with the flame. The alarm light shall be designed to activate when the flare malfunctions. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
13	Minimum Residence Time \geq 0.5 seconds. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	The permittee shall install, operate and maintain an automatic system (or equivalent) on the flare to relight the flare pilots to maintain flare combustion, and to shut-off the flow of gas to the flare when flare combustion ceases and cannot be restarted by re-light system. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	The flare shall emit no more than 100 parts per million by volume, dry basis (ppmvd) of CO corrected to 7% oxygen averaged over any consecutive 60 minute period. For oxygen concentrations in the flue gas greater than 14%, the maximum allowable concentration of CO is 50 ppmvd uncorrected for oxygen. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule (see stack 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
16	<p>The flare shall have a smokeless design and the following:</p> <p>(i) Monitoring of the flare pilot burners by a thermocouple or any equivalent device to ensure the presence of a pilot flame</p> <p>(ii) An automatic system or equivalent to re-light the flare pilots to maintain flare combustion. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.
17	<p>The flare shall emit no more than 50 ppmvd of total hydrocarbons (THC) expressed as equivalent methane (CH₄) and including CH₄ corrected to 7% oxygen or 5% of the maximum THC entering the flare, averaged over any consecutive 60 minute period. For oxygen concentrations in the flue gas greater than 14%, the maximum allowable concentration of THC is 25 ppmvd uncorrected for oxygen, when the concentration limit applies. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by stack emission testing prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results prior to permit expiration date. [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 testing requirements in OS Summary). [N.J.A.C. 7:27-22.16(o)]</p>
18	<p>Exit Gas Velocity < 60 ft/sec. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Exit Gas Velocity: Monitored by calculations once initially. The actual exit velocity, V actual, of the flare shall be determined by dividing volumetric flowrate (as determined by Reference Methods 2, 2A, 2C or 2D) by the unobstructed cross sectional area of the flare tip. [N.J.A.C. 7:27-22.16(o)]</p>	None.	None.
19	<p>Propane gas shall be used for ignition and as a pilot fuel. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
20	<p>The flare shall be designed to reduce the concentration of NMOC by at least 98% (weight-percent) or 20 ppmvd as hexane @ 3% O₂.</p> <p>The flare shall be installed, operated and maintained in accordance with the specifications provided by the manufacturer. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Other: Keep manufacturer's specification at the site for the life of the equipment. [N.J.A.C. 7:27-22.16(o)].</p>	None.

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Emission Unit: U1 Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to NSPS XXX and NESHAP AAAA

Operating Scenario: OS2 Collection system and transport to Power Plant

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This scenario describes the applicable requirement when collected Landfill gas is transported for the power generation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Route the collected landfill gas to a treatment system that processes the collected gas for subsequent sale or beneficial use. Venting of treated landfill gas to the ambient air is not allowed. The treated landfill gas that cannot be routed for subsequent sale or beneficial use and all emissions from any atmospheric vent from the gas treatment system must be controlled. The landfill gas must be conveyed to a control system through the collection header pipe(s). The gas mover equipment must be sized to handle the maximum gas generation flow rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The permittee shall minimize any fugitive emissions through pipe fittings and flanges. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each week during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record any event of repairs made. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel type to an engine is limited to Treated Landfill Gas per NSPS XXX, 40 CFR 60.766(g). [N.J.A.C. 7:27-22.16(a)]	Monitored by flue gas flow rate instrument continuously when treated landfill gas is supplied to the power generation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously during operation. Cubic feet per consecutive 12-month period shall be calculated by the sum of cubic feet during any one month added to the sum of cubic feet during the preceeding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator must install, calibrate, and maintain according to manufacturer's specifications a gas flow rate measuring device that must measure and record the flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [N.J.A.C. 7:27-22.16(a)]	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must 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. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. The owner or operator must maintain records of the flow of landfill gas to, and bypass of, the treatment system. The owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [N.J.A.C. 7:27-22.16(o)]	None.
6	The owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan to ensure the treatment system is operating properly for each intended end user of the treated landfill gas. The treatment monitoring plan shall include the following: Monitoring methods, frequencies, and operating ranges for each monitored operating parameter based on manufacturer's recommendations or engineering analysis for each intended end use of the treated landfill gas. [N.J.A.C. 7:27-22.16(a)]	Other: Operate all monitoring systems in accordance with the site-specific treatment system monitoring plan.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. At a minimum, records should include records of filtration, de-watering, and compression parameters that ensure the treatment system is operating properly for each intended end use of the treated landfill gas. Keep documentation of the monitoring methods and ranges, along with justification for their use; Identify who is responsible (by job title) for data collection; Processes and methods used to collect the necessary data; Description of the procedures and methods that are used for quality assurance, maintenance, and repair of all continuous monitoring systems. [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 Emergency Generator, 1.16 MMBtu/hr, 104 KW, 139 HP, Subject to NSPS IIII

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SUMMARY OF FEDERAL REGULATIONS: * NSPS Subpart A - General Provisions *NSPS Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Federal Rules Summary]	None.	None.	None.
2	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.
3	Particulate Emissions <= 0.21 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). 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	Generator fuel limited to No. 2 fuel oil. [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>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"> 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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] 	<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"> 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. 2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. <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
8	<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 http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</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.</p> <p>[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
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The owner or operator shall comply with the maximum annual operating hours for normal testing and maintenance. [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 iii. The start up and shut down time; iv. The total operating time for testing or maintenance based on the generator's hour meter; and v. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input <= 1.15 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Engine Rated Capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
11	CO <= 0.064 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 0.052 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total) <= 0.01 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	SO2: <= below de minimus. Annual emission limit based on 100 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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	TSP <= 0.004 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.004 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.004 tons/yr. Annual emission limit based on 100 hours per year of testing and maintenance operation only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Rated Power Output, Model Year and Displacement. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Rated Power Output, Model Year and Displacement. [N.J.A.C. 7:27-22.16(o)].	None.
19	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 (NSPS Subpart A). [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)]
20	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP (NSPS Subpart A). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	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 (NSPS Subpart A). [40 CFR 60.12]	None.	None.	None.
22	The owner or operator shall notify the Administrator of the proposed replacement of components (NSPS Subpart A). [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)]
23	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 (NSPS Subpart A). [40 CFR 60.19]	None.	None.	None.
24	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, 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 delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
26	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
28	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power ≥ 37 kW (HP ≥ 50) and no greater than 3,000HP ($\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO _x ≤ 4 g/kW-hr, CO ≤ 5 g/kW-hr, PM ≤ 0.3 g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
30	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. (MACT ZZZZ) [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: U8 Emergency Generator, 1.16 MMBtu/hr, 104 KW, 139 HP, Subject to NSPS IIII

Operating Scenario: OS1 Emergency Generator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 1.29 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.04 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2: below de minimus. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.07 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: U10 Waste Shredder Powered by a 525 HP (3.74 MMBtu/hr) Diesel Engine

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.17 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 3.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 3.08 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 1.48 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.76 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Benzene <= 0.00349 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Formaldehyde <= 0.00441 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**

Emission Unit: U10 Waste Shredder Powered by a 525 HP (3.74 MMBtu/hr) Diesel Engine

Operating Scenario: OS1 Shredding Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.44 lb/hr based on EPA PM emission factor of 0.024 lb/ton and waste processing rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.72 lb/hr based on EPA PM10 emission factor of 0.012 lb/ton and waste process rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 0.36 lb/hr based on EPA PM2.5 emission factor of 0.006 lb/ton and waste processing rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Throughput <= 120,000 tons/yr of material processed. [N.J.A.C. 7:27-22.16(a)]	None.	Total Throughput: 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: U10 Waste Shredder Powered by a 525 HP (3.74 MMBtu/hr) Diesel Engine

Operating Scenario: OS2 535 HP Diesel Engine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SUMMARY OF FEDERAL REQUIREMENTS: NSPA Subpart A - General Provisions NSPS Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines MACT Subpart A - General Provisions MACT Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. [40 CFR Federal Rules Summary]	None.	None.	None.
2	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.
3	Particulate Emissions <= 2.24 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(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	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. [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.
6	Hours of Operation <= 2,000 hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	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**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Maximum Gross Heat Input <= 3.74 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Retain records of engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	VOC (Total) <= 0.17 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 3.08 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 3.08 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.04 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.04 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-2.5 (Total) <= 0.04 lb/hr based on EPA Tier 4 Nonroad Compression Ignition Engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Benzene <= 0.00349 lb/hr based on AP-42, Table 3.3-2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 0.00441 lb/hr based on AP-42, Table 3.3-2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
18	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
19	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	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.
22	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.
23	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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	NMHC <= 0.14 g/HP-hr, NO _x <= 2.6 g/HP-hr, CO <= 2.6 g/HP-hr, PM <= 0.03 g/HP-hr. [40 CFR 60.4204(b)]	None.	Other: The permittee 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.
25	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]	None.	Recordkeeping by 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.
26	The permittee shall use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 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. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	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.
27	The permittee shall 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 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)].	

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	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.
29	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.
30	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in 40 CFR 63.6(e)(3), review of operation and maintenance records, and inspection of the source. [40 CFR 63.6(e)(1)(i)]	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
31	The owner or operator shall correct malfunctions as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, the owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices. [40 CFR 63.6(e)(1)(ii)]	None.	None.	None.
32	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 recent two 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)]
33	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. [40 CFR 63.9(h)(3)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two 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 sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. In addition, per 40 CFR 63.9(a)(4)(ii), the owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Division of Enforcement and Compliance Assistance, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]	None.	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)].	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)]
35	General recordkeeping requirements. The owner or operator shall maintain files of all information (including all reports and notifications) required by 40 CFR 63 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. The owner or operator shall maintain relevant records per 40 CFR 63.10(b)(2) and 40 CFR 63.10(c). [40 CFR 63.10(b)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	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. (MACT ZZZZ) [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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U10 Waste Shredder Powered by a 525 HP (3.74 MMBtu/hr) Diesel Engine
Operating Scenario: OS3 Discharge Conveyor Belt

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Throughput <= 120,000 tons/yr of material processed. [N.J.A.C. 7:27-22.16(a)]	None.	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Salem County Solid Waste Facility

Facility ID (AIMS): 65582

Street 286 WELCHVILLE RD
Address: ALLOWAY, NJ 08001

Mailing 286 WELCHVILLE RD
Address: ALLOWAY, NJ 08001

County: Salem

Location Intersection of Welchville-Alloway Road
Description: (County Road #540) and McKillip Road

State Plane Coordinates:

X-Coordinate: 246,100

Y-Coordinate: 275,500

Units: New Jersey State Plane 8

Datum: NAD83

Source Org.: DEP-GIS

Source Type: Digital Image

Industry:

Primary SIC:

Secondary SIC:

NAICS: 562212

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Fees/Billing Contact

Organization: Salem County Improvement Authority

Org. Type: Auth/Dist/Comm

Name: Julie Acton

NJ EIN:

Title: Executive Director

Phone: (856) 935-7900 x

Mailing Address: 286 Welchville Road

Fax: (856) 935-7331 x

PO Box 890

Other: () - x

Alloway, NJ 08001

Type:

Email: jacton@scianj.org

Contact Type: On-Site Manager

Organization: Salem County Improvement Authority

Org. Type: Auth/Dist/Comm

Name: Parker Smith

NJ EIN:

Title: Landfill Supervisor

Phone: (856) 935-7900 x

Mailing Address: 286 Welchville Road

Fax: (856) 935-7331 x

PO Box 890

Other: () - x

Alloway, NJ 08001

Type:

Email: psmith@scianj.org

Contact Type: Operator

Organization: Salem County Improvement Authority

Org. Type: Auth/Dist/Comm

Name: Salem County Improvement Authority

NJ EIN:

Title:

Phone: (856) 935-7900 x

Mailing Address: 52 McKillip Road

Fax: (856) 935-7331 x

PO Box 890

Other: () - x

Alloway, NJ 08001-0890

Type:

Email:

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: Salem County Improvement Authority

Org. Type: Auth/Dist/Comm

Name: Salem County Improvement Authority

NJ EIN:

Title:

Phone: (856) 935-7900 x

Mailing Address: 286 Welchville Road

Fax: (856) 935-7331 x

PO Box 890

Other: () - x

Alloway, NJ 08001-0890

Type:

Email:

Contact Type: Responsible Official

Organization: Salem County Improvement Authority

Org. Type: Auth/Dist/Comm

Name: Julie Acton

NJ EIN:

Title: Executive Director

Phone: (856) 935-7900 x

Mailing Address: 286 Welchville Road

Fax: (856) 935-7331 x

PO Box 890

Other: () - x

Alloway, NJ 08001

Type:

Email: jacton@scianj.org

SALEM COUNTY SOLID WASTE FACILITY (65582)
BOP230001

Date: 2/8/2024

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	Diesel Fuel, #2 Fuel Oil Tank(s)	Storage Vessel	Maintenance Garage	0.020								
IS2	Two Waste Oil Tank(s): One (1) 500 gallon used motor oil tank; One (1) 150 gallon used cooking oil tank	Storage Vessel	Maintenance Garage	0.000								
IS3	Two Hydraulic Oil Tank(s): 275 gallon hydraulic oil tank each.	Storage Vessel	Maintenance Garage	0.000								
IS5	Two Leachate Tank(s): One (1) 200,000 gallon tank; one (1) 500,000 gallon tank	Storage Vessel	Maintenance Garage	0.430								
IS6	Airman Power Pro25 Power Generator, 2010 model #SDG25, 25.7 KW, 34.1 HP @ 1750 RPM.	Emergency Generator	Maintenance Garage									
IS7	Two Power Generators: One (1) 2016 Generac GP 6500, Model 5940, 12 HP, 6.5 kW; and 2004 Honda Generator, Model #EB11, 23 HP, 10.5 kW	Other Equipment	Maintenance Garage									

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS8	Maintenance Building Unit Heaters (two)	Other Equipment	Maintenance Garage		0.010	0.010						
IS9	Diesel Fuel Tanker Truck	Other Equipment	Within Landfill Site	0.010								
Total				0.470	0.010	0.010	0.000	0.000	0.000	0.000	0.00000000	0.000

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	Landfill	Landfill	Landfill	PCP990001	1/1/1988	No		
E8	Em Generator	Emergency Generator, MTU Detroit Diesel (2008), 104 KW, 139 HP, 1.16 MMBtu/hr	Emergency Generator	GEN080001	9/29/2008	No		
E10	Shredder	Waste Shredder	Manufacturing and Materials Handling Equipment		8/1/2023			
E11	Engine	535 HP Cummins QSX15 Diesel Engine	Stationary Reciprocating Engine		8/1/2023			
E12	Conveyor	Discharge Conveyor Belt	Manufacturing and Materials Handling Equipment		8/1/2023			

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E1 (Landfill)
Print Date: 9/5/2023

Solid Waste Facility
Permit Number: LOP090002

Year Opened: 1988

Solid Waste Facility Permit
Issuance Date: 7/11/11

Expected Year of Closure: 2045

Actual Year of Closure:

Total Design Area (acres): 70.0

Total Design Capacity
(million megagrams): 5.3

Active Area (acres): 70.0

Capped Area (acres): 0.0

Is the Landfill Lined? ☒ Yes ☐ No

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

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

Maximum Estimated Landfill
Gas Generation Rate during
the life of the Landfill (ft³/yr):
525.6

Model used to estimate
Landfill Gas Production: LANDGEM v302

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

Method of Landfill Gas
Pre-Treatment:

Design Capacity of Landfill
Gas Collection System (acfm): 1,000.0

Overall Collection Efficiency(%): 75.0

Landfill Gas Mover/Blower
size (hp): 30.0

Number of Extraction Wells: 81

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

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E1 (Landfill)
Print Date: 9/5/2023

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

☐ Yes ☒ No

Comments:

Number of wells are 55, as of June 10, 2011.
Number of wells are increased from 55 to 81, as of
March 2016.
Per Solid Waste Permit Major Modification
LOP090002 approved on 7/11/2011, the design
capacity is 8,265,556 cubic yards. The design
capacity was increased from 3,438,004 cu. yds. to
8,265,556 cu.yds.

Actual date of horizontal expansion occurred (actual
date of construction). Construction
began on Cells 11A and 11B on July 11, 2016.

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E8 (Emergency Generator)
Print Date: 9/5/2023

Make:	<input type="text" value="MTU Detroit Diesel"/>		
Manufacturer:	<input type="text" value="MTU Detroit Diesel (2008)"/>		
Model:	<input type="text" value="100-RJS6DT3 (2008) Model Year"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.15"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
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:	<input type="text" value="The Detroit Diesel manufacturer uses a John Deere engine for the generator set, Model 4045HF285, 100 KW, 158 HP. Using a high heat input of 140,000 Btu/gal, the engine has an MMBtu/hr rating of 1.15 MMBtu/hr."/>		

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E10 (Manufacturing and Materials Handling Equipment)
Print Date: 9/5/2023

Make:	Waste Shredder
Manufacturer:	TANA
Model:	440 Series
Type of Manufacturing and Materials Handling Equipment:	Waste Shredder
Capacity:	6.00E+01
Units:	other units
Description (if other):	tons/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E11 (Stationary Reciprocating Engine)
Print Date: 9/5/2023

Make:	Diesel Engine		
Manufacturer:	Cummins		
Model:	QSX15		
Maximum Rated Gross Heat Input (MMBtu/hr):	3.74		
Class:	<div>▼</div>		
Description:			
Duty:	<div>▼</div>		
Description:			
Minimum Load Range (%):			
Maximum Load Range (%):			
Stroke:	<div>▼</div>		
Power Output (BHP):	535		
Electric Output(KW):	399		
Compression Ratio:	17.2		
Ignition Type:	Compression <div>▼</div>		
Description:			
Engine Speed (RPM):	2100		
Engine Exhaust Temperature (°F):	923		
Air to Fuel Ratio at Peak Load:			
Ratio Basis:	<div>▼</div>		
Lambda Factor (scfm/scfm):			
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):			
Output Type:	<div>▼</div>		
Heat to Power Ratio:			
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" 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?	<div><input type="radio"/> Yes <input checked="" type="radio"/> No</div>		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<div><input checked="" type="radio"/> Yes <input type="radio"/> No</div>		
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.

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 E12 (Manufacturing and Materials Handling Equipment)
Print Date: 9/5/2023

Make:	Waste Shredder
Manufacturer:	TANA
Model:	440 Series
Type of Manufacturing and Materials Handling Equipment:	Discharge Conveyor Belt
Capacity:	6.00E+01
Units:	other units
Description (if other):	tons/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

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

SALEM COUNTY SOLID WASTE FACILITY (65582)
BOP230001

Date: 2/8/2024

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	Flare	Enclosed Flare	Flare		Yes		

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 CD1 (Flare)
Print Date: 2/8/2024

Make:	
Manufacturer:	Parnel Biogas Inc.
Model:	
Type:	Enclosed
Minimum Residence Time (sec):	
Maximum Rated Gross Heat Input (MMBtu/hr):	32.75
Auxilliary Fuel:	
Description:	
Method of Pilot Flame Monitoring:	Flame 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 checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Gas Flow Rate (acfm):	100.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	
Flare Operation Type:	
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):	
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	98.90
How was Efficiency determined?	
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?	<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?	

65582 SALEM COUNTY SOLID WASTE FACILITY BOP230001 CD1 (Flare)

Print Date: 2/8/2024

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

SALEM COUNTY SOLID WASTE FACILITY (65582)

Date: 2/8/2024

BOP230001**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	Landfill Gas Flare Stack	Round	96	30	1,300	1,600.0	1,500.0	1,800.0	58,361.0	55,114.0	59,985.0	Up	
PT8	EM GENERATOR	Emergency Generator	Round	0	0	1,250	0.0	0.0	0.0	0.0	0.0	0.0		
PT10	Shredder	Waste Shredder	Rectangle	118	11	200	0.0	0.0	0.0	0.0	0.0	0.0	Up	
PT11	Engine	535 HP Diesel Engine	Round	6	11	200	882.0	0.0	923.0	1,708.0	0.0	1,884.0	Up	
PT12	Conveyor	Discharge Conveyor Belt	Surface	39	16	200	0.0	0.0	0.0	0.0	0.0	0.0	Down	

SALEM COUNTY SOLID WASTE FACILITY (65582)
BOP230001

Date: 2/8/2024

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

U 1 Landfill Landfill Gas Collection System and 1000 CFM Enclosed Flare, Subject to NSPS XXX and NESHAP AAAA

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	Flare	Normal Operation of Landfill Gas Enclosed Flare, 1000 CFM	Normal - Steady State	E1	CD1 (S)	PT1		0.0	8,760.0		55,114.0	59,985.0	1,500.0	1,800.0
OS2	GAS PIPELINE	Collection system and transport to Power Plant	Normal - Steady State	E1										

U 8 Em Generator Emergency Generator, 1.16 MMBtu/hr, 104 KW, 139 HP, Subject to NSPS IIII

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	Em Generator	Emergency Generator	Normal - Steady State	E8		PT8		0.0	30.0		0.0	0.0	0.0	0.0

SALEM COUNTY SOLID WASTE FACILITY (65582)
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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 10 Shredder Waste Shredder Powered by a 525 HP (3.74 MMBtu/hr) Diesel 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	Shredder	Shredding Operation	Normal - Steady State	E10		PT10	A26-50-000-002	0.0	2,000.0		0.0	0.0	0.0	200.0
OS2	Engine	535 HP Diesel Engine	Normal - Steady State	E11		PT11	2-02-001-02	0.0	2,000.0		0.0	1,884.0	300.0	1,300.0
OS3	Conveyor	Discharge Conveyor Belt	Normal - Steady State	E12		PT12	A26-50-000-002	0.0	2,000.0		0.0	0.0	0.0	200.0