



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

CATHERINE R. McCABE

Commissioner

SHEILA Y. OLIVER

Lt. Governor

Air Pollution Control Operating Permit Administrative Amendment

Permit Activity Number: BOP200001

Program Interest Number: 51614

Mailing Address	Plant Location
TODD FRACE FACILITY MGR CAMDEN CNTY ENERGY RECOVERY ASSOC LP 600 MORGAN BLVD Camden, NJ 08104	CAMDEN CNTY ENERGY RECOVERY ASSOC LP 600 Morgan Blvd Camden Camden County

Initial Operating Permit Approval Date:

December 22, 2004

Operating Permit Approval Date:

June 23, 2020

Operating Permit Expiration Date:

December 21, 2019 (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

Equipment at the facility referenced by this modification **is not covered by** the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: 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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the [NJ04 - Administrative Hearing Request Checklist and Tracking Form](https://www.state.nj.us/dep/aqpp/applying.html) available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Brian Marmo at (609) 984-2082.

Approved by:



Kevin Greener

Enclosure

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

Facility Name: CAMDEN CNTY ENERGY RECOVERY ASSOC LP
Program Interest Number: 51614
Permit Activity Number: BOP200001

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Section A

Facility Name: CAMDEN CNTY ENERGY RECOVERY ASSOC LP

Program Interest Number: 51614

Permit Activity Number: BOP200001

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} ² (total)	Pb	HAPs* (total)	CO _{2e} ³
Emission Units Summary	22.8	461	187	213	44.5	86.9	NA	.99	127.7	
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	22.8	461	187	213	44.5	86.9	NA	.99	127.7	367,731

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} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	.019	.123	.052	.001	.015	.015	NA	NA	NA
Non-Source Fugitive Emissions ⁴	NA	NA	NA	NA	NA	NA	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

CO_{2e}: 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 PM_{2.5} has been included in air permitting rules as of December 9, 2017. Consequently, PM_{2.5} totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

³ Total CO_{2e} emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

⁴ 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: CAMDEN CNTY ENERGY RECOVERY ASSOC LP

Program Interest Number: 51614

Permit Activity Number: BOP200001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations⁵:

HAP	TPY
Arsenic	.0066
Cadmium	.043
Hydrogen Chloride	121.5
Hydrogen Fluoride	4.71
Lead	.99
Mercury	.0609
Nickel	.222
POM	.18
TCDD	.0000114

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

Other Air Contaminant	TPY
Ammonia	20
H2SO4	32.1

⁵ 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: CAMDEN CNTY ENERGY RECOVERY ASSOC LP

Program Interest Number: 51614

Permit Activity Number: BOP200001

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10.
 - a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.
 - b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
 - i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and
 - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
 - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:
 - Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
 - Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
 - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
 - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
 - Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

at: <http://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

Section C

Facility Name: CAMDEN CNTY ENERGY RECOVERY ASSOC LP

Program Interest Number: 51614

Permit Activity Number: BOP200001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

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

Facility Name: CAMDEN CNTY ENERGY RECOVERY ASSOC LP
Program Interest Number: 51614
Permit Activity Number: BOP200001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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Insignificant Sources (IS):

IS NJID	IS Description	
IS1	Admin Bldg Heater(natural gas)	6
IS2	20,000 gal #2 fuel oil storage tank	7
IS3	Cooling Tower (<50lb/hr chemical additives)	9

Groups (GR):

GR NJID	GR Designation	GR Description	
GR1	NSPS A	NSPS Subpart A- E1,2,3,9,10	10

Emission Units (U):

U NJID	U Designation	U Description	
U1	MSW A,B,C	Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-hour block period subject to NSPS subparts Cb, Eb, and 40 CFR 62 Subpart FFF	20
U5	BN-201A	3500 ft3 Lime Storage Silo A	84
U6	BN-201B	3500 ft3 Lime Storage Silo B	87
U7	Carbon Silo	Activated Carbon Storage	90
U8	TK-105	Lime Bag Breaker	93
U9	Ash Handling	Ash Conveying and Fly Ash Conditioning System	95
U10	Generator	Diesel Generator predating NSPS III applicability	100

**CAMDEN CNTY ENERGY RECOVERY ASSOC LP (51614)
BOP200001**

Date:6/23/2020

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

Permit Being Modified

Permit Class: BOP **Number:** 190001

Description This application is being submitted to correct inconsistencies in accordance with N.J.A.C.
of Modifications: 7:27-22.20(b)(2).

BOP200001

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

Subject Item: FC

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

BOP200001

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>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)]</p>	None.	<p>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)].</p>	<p>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.</p> <p>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.</p> <p>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]</p>
14	<p>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]</p>	None.	None.	<p>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)]</p>
15	<p>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]</p>	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.

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

Subject Item: IS1 Admin Bldg Heater(natural gas)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	The fuel for this heater is limited to natural gas. [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: IS2 20,000 gal #2 fuel oil storage tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2014 through June 30, 2016) for Zone 3 (Camden County). [N.J.A.C. 7:27- 9.2(a)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	None.
2	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 3 (Camden County). [N.J.A.C. 7:27- 9.2(a)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
4	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #4 to #10 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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Facility Specific Requirements**

Subject Item: IS3 Cooling Tower (<50lb/hr chemical additives)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall not use this emission unit in a manner which will cause visible emissions greater than 20 percent opacity, exclusive of condensed water vapor, for a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	The combined weight of all raw materials used in each equipment item shall be less than 50 lb per hour. In determining the weight of the raw materials used, the weight of air, water, containers, paper, metal or plastic shall be excluded. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum allowable particulate emission rate based on .02 grains per scf. Particulate Emissions < 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.

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

Subject Item: GR1 NSPS Subpart A- E1,2,3,9,10

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The three municipal solid waste incinerators(E1,E2, E3) and ash handling conditioning equipment (E9, E10) are subject to the following General Provisions of the New Source Performance Standards. [40 CFR 60]			
2	For E1,2,3,9,10, 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: Region II, Director, Air and Waste Management Division, US Environmental Protection Agency, 21st Floor, 290 Broadway, New York, NY 10007. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
3	For E1,2,3,9,10, copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the Southern Regional Enforcement Office of NJDEP at One Port Center, 2 Riverside Drive Suite 201, Camden NJ 08102. [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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	For E1,2,3,9,10, the owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
5	For E1,2,3,9,10, the owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>For E1,2,3 each owner or operator required to install a continuous monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see section 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each six-month period. [40 CFR 60.7(c)]</p>	None.	None.	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region II Administrator and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d).and the electronically through the NJDEP online EEMPR web portal . 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)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	For E1,2,3,9,10, the owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)].	None.
8	For E1,2,3,9,10, the owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.
9	For E1,2,3,9,10, performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
10	For E1,2,3,9,10, the owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	For E1,2,3,9,10, unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.
12	For E1,2,3 compliance with NSPS standards specified in this permit, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
13	For E1,2,3,9,10, for equipment required to conduct visual opacity tests (E1, E2, E3, E9, and E10): The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40 CFR 60.11(b)]	Monitored by visual determination annually, based on 6 minute blocks on an annual basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test and must complete 5 performance tests in each 5 year calendar period. Testing shall be conducted using Reference Method 9 in Appendix A of NSPS. 40 CFR 60.58b and 40 CFR 60.58b(c) and. [40 CFR 60.11(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations. [40 CFR 60.11(e)(2)]	Submit a report: Annually. The owner or operator shall submit results of Method 9 observation data to the Administrator. For E 9, 10 submit results of Method 22. [40 CFR 60.11(e)(2)]
14	For E1,2,3 for equipment subject to the NSPS COM requirement, the owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40 CFR 60.11(b)]	Monitored by continuous opacity monitor continuously, based on 6 minute blocks. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours for the performance test. [40 CFR 60.11(b)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously or a file of all data maintained in a permanent form suitable for inspection. [N.J.A.C. 7:27-22.16(a)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit Continuous Opacity Monitoring System (COMS) data produced during any performance test in lieu of Method 9 data. The owner or operator shall notify the Administrator in writing of intent to demonstrate compliance using COMS data at least 30 days before any performance required under 40CFR Part 60.8 is conducted and shall follow procedures outlined in 40CFR Part 60.11(e). [40 CFR 60.11(e)(5)]
15	For E1,2,3,9,10, the NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in this permit. [40 CFR 60.11(c)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	For E1,2,3,9,10, at all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
17	For E1,2,3,9,10, 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.
18	For E1,2,3 the owner or operator shall perform zero and span adjustments daily for continuous emission monitors and continuous opacity monitors following procedures outlined in 40 CFR Part 60.13(d)1 & 2. [40 CFR 60.13(d)]	None.	Other: Maintain records in accordance with 40 CFR 60.7(f). [40 CFR 60.13(d)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	For E1,2,3 except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous opacity monitoring systems shall be in continuous operation. They shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [40 CFR 60.13(e)(1)]	None.	None.	None.
20	For E1,2,3 except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems measuring emissions except opacity shall be in continuous operation. They shall complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period. [40 CFR 60.13(e)(2)]	None.	None.	None.
21	For E1,2,3 all continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR Part 60 shall be used. [40 CFR 60.13(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	<p>The owner or operator of all continuous monitoring systems for measuring opacity shall reduce all data to 6-minute averages which shall be calculated from 36 or more data points equally spaced over each 6-minute period. Six -minute period is defined in 40 CFR 60.2 as any one of the 10 equal parts of a one-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. For owners and operators complying with the requirements in 40 CFR 60.7(f)(1) or (2), data averages must include any data recorded during periods of monitor breakdown or malfunction. [40 CFR 60.13(h)(1)]</p>	None.	Other: See Applicable Requirement. [40 CFR 60.13(h)].	None.

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	For E1,2,3,9, 10, changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
26	The facility shall comply, as applicable, with all current and future applicable MACT regulations. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.

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Emission Unit: U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-hour block period subject to NSPS subparts Cb, Eb, and 40 CFR 62 Subpart FFF
Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY The permittee shall conduct stack tests using an approved protocol to demonstrate compliance with emission limits for pollutants named and at the frequency specified in the following applicable requirements.</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. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx, CO or SO2, with Bureau of Technical Services (BTS) approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required by this OS Summary or under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required by this OS Summary or under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule , i.e., as required by the OS Summary or Operating Scenario conditions elsewhere in this permit. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>Conduct a comprehensive stack test on each municipal solid waste combustor using an approved protocol at emission point Pt1, Pt2, and PT3 at least 18 months prior to the expiration of the approved operating permit to demonstrate compliance with the NO_x, SO₂, SO₃ and H₂SO₄ (converted and expressed as H₂SO₄), VOC, CO, hydrogen fluoride, 2,3,7,8 TCDD, and benzo(a)pyrene permit limits. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition, from modification BOP080001. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date. Stack tests shall be based on the average of three one hour tests for all contaminants except for hydrogen fluoride, carbon monoxide, and benzo(a)pyrene which shall be based on three separate test runs. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. [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. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist.</p> <p>[N.J.A.C. 7:27-22.18(e)] & [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	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the arsenic, beryllium, chromium, and nickel permit limits. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [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. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor using EPA Method 5 to demonstrate compliance with the particulate emission limits of 3.59 lb/hr and with 0.013 grains/dscf, corrected to 7% oxygen, from the filterable catch of the sampling train. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. . [N.J.A.C. 7:27-22.16(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the particulate emission limit of 25 mg / DSCM corrected to 7% O2 allowable, from the filterable catch of the sampling train, obtained from 40 CFR Part 62 Subpart FFF. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(e)], [40 CFR 60.39b(d)]& [40 CFR 62.14109(b)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [40 CFR 62.14109(b)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer-readable format. This is as specified at 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k). [N.J.A.C. 22.16(e)], [40 CFR 60.39b(d)] &. [40 CFR 62.14109(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. . [40 CFR 62.14109(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>For Pt1, Pt2, and Pt3, conduct a comprehensive stack test using an approved protocol within one year prior to the expiration of the renewed operating permit on each municipal solid waste combustor to demonstrate compliance with the particulate emission limit of 0.1 grains/dscf, corrected to 12% carbon dioxide, excluding the contribution of carbon dioxide from the combustion of auxiliary fuel. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. Testing for particulates shall be performed as follows.:Three test runs using the New Jersey Test Method for incinerators (as required by the test method, particulate matter shall include solid and liquid particles, excluding water, collected in the filterable catch and the condensible catch of the sampling train). [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist.</p> <p>[N.J.A.C. 7:27-22.18(e)] & [N.J.A.C. 7:27-22.16(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor using EPA Method 5 to demonstrate compliance with the particulate emission limit of 0.03 grains/dscf, corrected to 7% oxygen, from the filterable catch of the sampling train. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer-readable format. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. . [N.J.A.C. 7:27-22.16(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the PM-10 emission limit of 0.013 grains/dscf, corrected to 7% oxygen, from the filterable catch of the sampling train. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained on site in either paper copy or computer readable format. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. . [N.J.A.C. 7:27-22.16(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the total PM-10 emission limit of 7.02 lb/hr. Total PM-10 shall include both filterable and condensable catches from the test. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition, from BOP080001. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. Recordkeeping shall be done through test reports pursuant to N.J.A.C. 7:27-22.19. [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. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report. . [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with HCl emission limits. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16e], [40 CFR 60.39b(f)], [40 CFR 60.58b(f)] & [40 CFR 62.14109(b)]</p>	<p>Monitored by stack emission testing annually, based on each of three Department validated stack test runs to demonstrate compliance with emission limits pursuant to N.J.A.C. 7:27-22.16(e), and the average of three tests to demonstrate compliance with 40 CFR 60.39b(f) and 40 CFR 62.14103(b)(2). Stack testing for HCl (using EPA Method 26 or 26A) shall satisfy the requirements at 40 CFR 60.58b(f), [N.J.A.C. 7:27-22.16(e)], [40 CFR 60.39b(f)], [40 CFR 60.58b(f)] & [40 CFR 62.14109(b)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k). [N.J.A.C. 7:27-22.16(o)] [40 CFR 60.39b(f)], [40 CFR 60.58b(d)] & [40 CFR 62.14109(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report submitted pursuant to 40 CFR 60.39b(f) and 40 CFR 14109(a). [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.18(h)], [40 CFR 60.39b(f)], & [40 CFR 62.14109(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the mercury limits and the requirements under N.J.A.C. 7:27-22.16(e), N.J.A.C. 7:27-27.4 and 40CFR 60.58b(d)(2). Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [N.J.A.C. 7:27-22.16(e)], [N.J.A.C. 7:27-27.4], [40CFR 60.39b(d)], and [40 CFR 62.14109(b)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs using EPA Reference Method 29. The tests for mercury shall consist of three source emission tests to measure mercury in the gas stream inlet of the air pollution control apparatus serving each combustion unit, and simultaneously perform three source emission tests to measure mercury in the gas stream at the exit of the control apparatus. If source emission testing fails to demonstrate compliance with the applicable requirement, then the frequency of source testing shall increase to three source emission tests quarterly. In this case there shall be at least a 45 calendar day interval between the testing performed for a given quarter and the testing performed for the preceding quarter unless a shorter period is approved by the Department. If compliance with the applicable requirement is then achieved and maintained during two consecutive years then the permittee may again reduce the frequency of source emission testing from three source emission tests performed quarterly to three source emission tests performed annually. Testing shall also satisfy the requirements at 40 CFR 60.58b(d)(2), which requires annual testing.[N.J.A.C. 7:27-27.4(c)], [40CFR60.39b(d)]&. [40 CFR 62.14109(b)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k).[N.J.A. C. 7:27-22.16(o)],[40CFR60.39b(d)], and [40CFR60.39b(f)]. [40 CFR 62.14109(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] [N.J.A.C. 7:27-27.4(f) and. [N.J.A.C. 7:27-22.16(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the lead and cadmium emission limits. Stack testing is as required at 40 CFR 60.58b. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [40 CFR 60.58b(d)], [40 CFR 60.58b(f)], [40 CFR 60.39b(d)], [40 CFR 60.39b(f)] & [40 CFR 62.14109(b)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Stack testing for lead and cadmium (using EPA Method 29) shall be as required at 40 CFR 60.58b(d)(1). [40 CFR 60.39b(d)], [40 CFR 60.39b(f)] & [40 CFR 62.14109(b)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as indicated in 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)], [40 CFR 60.39b(f)] & [40 CFR 62.14109(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report submitted pursuant to 40 CFR 60.39b(d), 40 CFR 60.39b(f), and 40 CFR 14109(a). [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.18(h)], [40 CFR 60.39b(d)], [40 CFR 60.39b(f)], & [40 CFR 62.14109(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with total polychlorinated dibenzodioxin and dibenzofuran emission limits. Total polychlorinated dibenzodioxins emissions and total polychlorinated dibenzofurans (dioxins/furans) must be measured using EPA Reference Method 23. This is as indicated at 40 CFR 60.58b(g). Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition from BOP080002. [40 CFR 60.39b(d)], [40 CFR 60.59b(g)(3) & [40 CFR 62.14109(b)]</p>	<p>Monitored by stack emission testing annually, based on the average of three Department validated stack test runs Sample time shall be at least 4 hours per run, using EPA test Method 23 as specified at 40 CFR 60.58b(g)(3). This is as specified at 40 CFR 60.58b(g)(5), except : Where all performance tests over a 2-year period indicate that dioxin/furan emissions are less than or equal to 15 ng/dscm corrected to 7% O2 (total mass) for all units, the CCERA may elect to conduct annual performance tests in one unit per year. A performance test for dioxin/furan emissions shall be conducted annually (no more than 12 months following the previous test) on only one unit. If each annual test continues to indicate a dioxin/furan emission level less than or equal to 15 ng/dscm (total mass), the facility may continue conducting a performance test on only one unit per year. If annual test indicates a dioxin/furan emission level greater than 15 ng/dscm corrected to 7% O2 (total mass), performance tests thereafter shall be conducted annually on all units until and unless all annual performance tests for all units over a 2-year period indicate a dioxin/furan emission level less than or equal to 15 ng/dscm corrected to 7% O2 (total mass).[40 CFR 60.39b(d)], [40 CFR 62.14109(b)] &. [40 CFR 62.14109(d)(1)]</p>	<p>Recordkeeping by stack test results upon occurrence of event All records shall be maintained onsite in either paper copy or computer-readable format. This is as specified at 40 CFR 60.59b(d)(9)(i) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] &. [40 CFR 62.14109(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. As indicated in 40 CFR 59b(g)(1), a list of the emission levels achieved during performance tests shall be included in the semi annual report submitted pursuant to 40 CFR 60.39b(d), 40 CFR 60.39b(f), and 40 CFR 14109(a). [N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.18(h)], &. [40 CFR 62.14109(a)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	For Pt1, Pt2, and Pt3, conduct annual stack tests on each municipal solid waste combustor to demonstrate compliance with the ammonia emission limits from BOP100003. 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)]	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Stack testing shall be performed using approved protocols. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert . The permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date which shall be no less than 9 calendar months and no more than 15 calendar months after the previous test. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a New Jersey licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(h)]
15	Particulate Emissions \leq 18.23 lb/hr allowable for each combustor as determined from the Table at 7:27-4.2(a). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
16	SO ₂ \leq 2,000 ppmvd Maximum allowable per combustor emission limit from N.J.A.C. 7:27-7.2(b)(1). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)1]	None.	None.	None.
17	SO ₂ \leq 1,500 lb/hr Maximum allowable per combustor emission limit as specified at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	SO ₂ ≤ 3,000 lb/hr maximum allowable per combustor at any instant, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
19	SO ₃ and H ₂ SO ₄ , as converted and expressed as H ₂ SO ₄ ≤ 10 mg/ft ³ maximum allowable per combustor at standard conditions. The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(g)1]	None.	None.	None.
20	SO ₃ and H ₂ SO ₄ , as converted and expressed as H ₂ SO ₄ ≤ 350 lb/hr maximum allowable per combustor in any 60-minute period, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(g)2]	None.	None.	None.
21	SO ₃ and H ₂ SO ₄ , as converted and expressed as H ₂ SO ₄ ≤ 700 lb/hr maximum allowable per combustor at any instant, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(g)2]	None.	None.	None.
22	Sulfur Content in Fuel ≤ 500 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2014 through June 30, 2016) for Zone 3 (Camden County). [N.J.A.C. 7:27- 9.2(b)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	None.
23	Sulfur Content in Fuel ≤ 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 3 (Camden County). [N.J.A.C. 7:27- 9.2(b)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	None.

U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-

OS Summary

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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 the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
25	SO ₂ ≤ 1.2 lb/MMBTU gross heat input determined as a 30-day rolling average. No person shall expand or reconstruct an existing solid fuel-fired steam generating unit or construct a new solid fuel-fired steam generating unit having a rated hourly capacity that exceeds, or would exceed, as a result of expansion, construction, and/or reconstruction, 1,000,000 British Thermal Units (BTU) gross heat input unless the sulfur dioxide emissions, if the unit is a resource recovery facility, do not exceed the above limit. This limit applies to eligible resource recovery units. Emission limit applies for each MWC at all times, including startup and shutdown. [N.J.A.C. 7:27-10.3(c)4]	SO ₂ : Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	SO ₂ : Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding calendar quarter (the calendar quarters begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
26	Particulate Emissions ≤ 0.1 gr/dscf @ 12% CO ₂ maximum allowable (including ash, excluding the contribution of auxiliary fuel) for each combustor. The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27-11.3(a)4]	Particulate Emissions: Monitored by stack emission testing prior to permit renewal, based on the average of three Department validated stack test runs. See stack testing requirement, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirement, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirement, OS Summary. [N.J.A.C. 7:27-22.16(o)]
27	Opacity ≤ 1 Ringlemann Smoke Chart at all times including startup and shutdown, except for emissions of greater than Number 2 on the Ringleman chart for a period of not longer than three consecutive minutes. [N.J.A.C. 7:27-11.3(b)2ii]	None.	Other: All smoke test data shall be recorded in a permanent log at such time intervals as specified by the Department. Data shall be maintained for a period of not less than one year and shall be available for review by the Department.[N.J.A.C. 7:27-11.3(e)1].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	The provisions of 7:27-11.3(b)(2) shall not apply to: i. Smoke emitted during the building of a new fire, the shade or appearance of which is not greater than Number 2 of the Ringelmann smoke chart for a period of three consecutive minutes; or ii. Emissions of such opacity within a stack or chimney to a degree greater than the emission designated as Number 2 of the Ringelmann smoke chart for a period not greater than three consecutive minutes. [N.J.A.C. 7:27-11.3(b)3]	None.	None.	None.
29	Particulate Emissions: No person shall cause, suffer, allow or permit the emission of particles of unburned waste or ash from any common incinerator or from any special incinerator which are individually large enough to be visible while suspended in the atmosphere. [N.J.A.C. 7:27-11.3(c)].	None.	None.	None.
30	Odor: No person shall construct, install, use or cause to be used any common incinerator or any special incinerator which will result in odors being detectable by sense of smell in any area of human use or occupancy. [N.J.A.C. 7:27-11.3(d)].	None.	None.	None.
31	Any person responsible for the use of an existing incinerator shall upon request of the Department provide such sampling facilities and testing facilities exclusive of instruments and sensing devices as may be necessary for the Department to determine the nature and quantity of emissions from such incinerators and shall during such testing operate the incinerator at a charging rate of waste no less than the designed capacity of the incinerator using materials representative of the types of wastes normally burned. [N.J.A.C. 7:27-11.3(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	No person shall use or cause to be used any incinerator unless all components connected, or attached to, or serving the incinerator, including control apparatus are functioning properly and are in use, in accordance with the permit to construct, and the certificate to operate. [N.J.A.C. 7:27-11.5(c)].	None.	None.	None.
33	VOC (Total) <= 3.5 lb/hr. Maximum uncontrolled emission rate from each municipal solid waste combustor, based on the Table 16A at N.J.A.C. 16.16. This limit applies at all times, including startup and shutdown. [N.J.A.C. 7:27-16.16(d)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests Refer to VOC stack testing requirement in U1 OS0, except that compliance with this requirement is based on any 60-minute period (worst case run). N.J.A.C. 7:27-16.6(g)1ii and. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date Refer to VOC stack testing requirement in U1 OS0. Stack testing reports shall be maintained on site for a period of not less than five years. N.J.A.C. 7:27-16.22(a) and. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. The permittee shall submit a report on the analysis conducted in accordance with N.J.A.C. 7:27-16.16(g)(1)(ii). In addition to the results, the report shall include a detailed description of the method of analysis, including justification for any assumptions used to simplify calculations. [N.J.A.C. 7:27-22.16(o)]
34	NO _x (Total) <= 150 ppmvd @ 7% O ₂ based on a calendar day average on and after May 1, 2011, if compliance is achieved by installing a new NO _x air pollution control system on an existing MSW incinerator or by physically modifying an existing MSW incinerator. [N.J.A.C. 7:27-19.12]	NO _x (Total): Monitored by continuous emission monitoring system continuously, based on one calendar day Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 75% valid data (18 hours of data are required to calculate a valid 24-hour average.). [N.J.A.C. 7:27-19.12]	NO _x (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-19.12]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	<p>Each owner or operator of an MSW incinerator of any size shall operate the MSW incinerator in accordance with provisions specified in either (a) 1 or 2 below. Compliance with this standard shall be measured pursuant to (b) below.</p> <p>1. The emissions of mercury from any MSW incinerator shall not exceed 28 ug/dscm, corrected to seven percent oxygen, based on the annual average of all valid stack emission tests performed for four consecutive quarters; or</p> <p>2. The reduction efficiency for control of mercury emissions of the air pollution control apparatus of any MSW incinerator shall be at least: 95 percent on and after January 3, 2012 based on the annual average of all valid tests performed for each four consecutive quarters.</p> <p>[N.J.A.C. 7:27-27.4(a)]</p>	<p>Other: See stack testing requirements in U1 OSO. [N.J.A.C. 7:27-27.4(c)].</p>	<p>Other: See stack testing requirements in U1 OSO. [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other (provide description): As per the approved schedule See stack test requirements at OSO. [N.J.A.C. 7:27-22.16(o)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	<p>The owner or operator of a MSW incinerator that is demonstrating compliance with the mercury emission standard of N.J.A.C. 7:27-27.4(a)1 shall conduct stack emission testing every quarter to measure mercury in the gas stream at the exit of the control apparatus. The owner or operator of a MSW incinerator that is demonstrating compliance with the control efficiency standards of N.J.A.C. 7:27-27.4(a)2i, ii, or iii shall conduct stack emission testing every quarter to measure mercury in the gas stream at the inlet of the air pollution control apparatus serving each incinerator and simultaneously conduct stack emission testing every quarter to measure mercury in the gas stream at the exit of the control apparatus. There shall be at least three valid tests per quarter and at least 45 days between the stack emission testing performed for a given quarter and the stack emission testing performed for the preceding quarter, unless a shorter period is approved by the Department. The stack emission testing shall be conducted in accordance with a stack emission test protocol approved pursuant to N.J.A.C. 7:27-27.8 (a) and (b). [N.J.A.C. 7:27-27.4(b)]</p>	<p>Other: See stack testing requirements for mercury of OSO.[N.J.A.C. 7:27-27.4(c)].</p>	<p>Other: See stack testing requirements at OSO.[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other (provide description): As per the approved schedule See stack test requirements at OSO. [N.J.A.C. 7:27-22.16(o)]</p>
37	<p>Notwithstanding the provisions of (b) above, any owner or operator who achieves and maintains compliance with (a) above, for all applicable incinerators located at a facility, during eight consecutive quarters, may reduce the frequency of stack emission testing from each quarter to stack emission testing performed annually. However, if subsequent stack emission testing fails to demonstrate compliance with (a) above, then the frequency of stack emission testing shall revert to that indicated in (b) above for the unit that failed. [N.J.A.C. 7:27-27.4(c)]</p>	<p>Other: See stack testing requirement at OS Summary.[N.J.A.C. 7:27-27.4(d)].</p>	<p>Other: See stack testing requirement at OS Summary.[N.J.A.C. 7:27-27.4(d)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirement at OS Summary. [N.J.A.C. 7:27-27.4(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	Mercury Emissions: The owner or operator of any MSW incinerator that has a reagent based mercury emission control system shall operate each MSW incinerator at, or above, the optimized reagent feed rate established in the optimization tests and approved by the Department. [N.J.A.C. 7:27-27.8(d)]	None.	None.	None.
39	Any owner or operator of a MSW incinerator that submits to the Department a report of compliance testing, including all test runs for a MSW incinerator shall have such report reviewed prior to submission and certified by a registered professional engineer or an industrial hygienist certified by the American Board of Industrial Hygiene. [N.J.A.C. 7:27-27.9(d)]	None.	None.	None.
40	Any owner or operator of a MSW incinerator shall maintain at the facility a complete record, including all compliance test reports, of all compliance testing, including all test runs, conducted at the facility on equipment subject to this subchapter. [N.J.A.C. 7:27-27.9(e)]	None.	None.	None.
41	Any owner or operator of a MSW incinerator who submits to the Department a report of compliance testing, including all test runs, shall certify that report. [N.J.A.C. 7:27-27.9(f)]	None.	None.	None.
42	The owner or operator shall make any record made pursuant to N.J.A.C. 7:27-27.9(e) available to the Department, or its authorized representatives, for inspection for a period of five years after the date the record is made. [N.J.A.C. 7:27-27.9(g)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	For each unit, continuous monitors and recorders shall be installed, calibrated, tested and operated to measure and record the opacity of the stack gas and emission concentrations of carbon monoxide, oxygen, nitrogen oxides, and sulfur dioxide (inlet of acid gas control equipment and stack gas). Monitors must comply with EPA performance and siting specifications pursuant to 40 CFR part 60, Appendix B and F. Equipment specifications, calibration and operating procedures, and data evaluation and reporting procedures must be submitted to the Department. Quality assurance audits for opacity monitors shall be performed in accordance with requirements of EPA Reference Method 3. From BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
44	Any changes to the CEMS required under this operating permit must be approved by the Department. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Other (provide description): As per the approved schedule Submit for Department review and approval , a proposal for any changes to the CEMS required by this operating permit prior to initiating such change. [N.J.A.C. 7:27-22]
45	A minimum of ninety (90) percent data availability per calendar quarter, based on source operating hours, is required for the continuous emission monitoring systems from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
46	A minimum of ninety-five (95) percent data availability per calendar quarter, based on source operating hours, is required for the continuous opacity monitoring systems. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
47	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp . [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports[N.J.A.C. 7:27-22.16(o)].	None.
48	Visible emissions shall not exceed an average of 10% opacity in any 6-minute block period from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by continuous opacity monitor continuously, based on 6 minute blocks. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
49	Annual emission limit from preconstruction permit for each combustor TSP <= 14.8 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
50	PM-10 (Total) <= 86.9 tons/yr. Total annual emission limit for all 3 combustors, from modification BOP060006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
51	SO ₂ <= 71 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
52	NO _x (Total) <= 153 tons/yr. Annual emission limit from preconstruction permit for each combustor from BOP100003. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
53	NO _x (Total) <= 459 tons/yr. Annual emission limit from the NO _x Control Plan for all three units combined. [N.J.A.C. 7:27-19.13]	None.	None.	None.
54	Carbon monoxide <= 62.1 tons/yr. Annual emission limit from operating permit application for each combustor. [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
55	VOC (Total) <= 7.07 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
56	Ammonia <= 20 tons/yr. Annual emission limit for each combustor from BOP100003. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
57	Lead Emissions <= 0.33 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
58	HCl Emissions <= 40.5 tons/yr. Annual emission limit from operating permit application for each combustor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
59	Annual emission limit from preconstruction permit for each combustor, Sulfuric Acid emissions<=10.7tpy. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
60	Mercury Emissions <= 0.0203 tons/yr. Annual emission limit from the operating permit application for each combustor based on the limit of 28 ug/DSCM for each unit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
61	Hydrogen fluoride <= 1.57 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
62	Annual emission limit from preconstruction permit for each combustor, Polycyclic Aromatic Hydrocarbons<=.06 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
63	TCDD Emissions (2,3,7,8-) <= 0.0000037 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
64	Arsenic Emissions <= 0.0022 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
65	Cadmium Emissions <= 0.0144 tons/yr. Annual emission limit from preconstruction permit for each combustor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
66	Any individual hazardous air pollutant emissions, not specifically listed in this permit, are below the reporting thresholds listed in N.J.A.C.7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
67	Upon start-up of a unit, no solid waste may be introduced in to the municipal solid waste combustor unless the temperature 0.3 seconds downstream of secondary air injection is 1500 degree fahrenheit or higher. Compliance with this condition shall be demonstrated by an average temperature reading of no less than 800 degree fahrenheit as recorded by the permanent thermocouples located at the screen outlet, elevation 216'6" except during periods of start-up, shutdown, or emergency malfunctions. The average shall be computed from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(e)]	Monitored by temperature instrument upon occurrence of event based on the average of the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
68	<p>Within one hour after waste has been introduced into a municipal solid waste combustor, the temperature one second downstream of secondary air injection must be no less than 1500 degree fahrenheit. Compliance with this condition shall be demonstrated by an average temperature reading of no less than 830 degree fahrenheit as recorded by the permanent thermocouples located at the municipal solid waste incinerator screen outlet, elevation 216' 6" except during periods of start-up, shutdown, or emergency malfunctions from preconstruction permit. The average shall be computed from the two closest readings from the three thermocouples [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by temperature instrument upon occurrence of event based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
69	<p>The temperature one second downstream of secondary air injection at which the municipal solid waste combustor must operate at least 90% of the time when waste is being burned, must be no less than 920 degree fahrenheit average as recorded by the permanent thermocouple located at the 216' 6' elevation for at least 90% of the daily waste burning time of the municipal solid waste incinerator except during periods of start-up, shutdown, or emergency malfunctions. The average shall be computed from the two closest readings from the three thermocouples [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by temperature instrument continuously based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
70	The auxiliary burners shall operate automatically if the temperature one second downstream of secondary air injection drops below 1550 degree fahrenheit during the combustion of waste. Compliance with this condition shall be demonstrated as: The auxiliary burners shall operate automatically if the average temperature drops below 870 degree fahrenheit as recorded by the permanent thermocouples located at 216' 6" elevation, during the combustion of waste. From preconstruction permit. The average shall be computed from the two closest readings from the three thermocouples [N.J.A.C. 7:27-22.16(e)]	Monitored by temperature instrument continuously based on the average from the two closest readings from the three thermocouples. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.
71	Oxygen >= 3 % by volume average measured on a dry basis in the flue gas at the municipal solid waste combustor exit of each unit for any 5-minute block average from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Oxygen: Monitored by continuous emission monitor continuously, based on 5-minute blocks. [N.J.A.C. 7:27-22.16(e)]	Oxygen: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
72	<p>A low oxygen incident alone shall not be a basis for violating the immediately preceding condition.. However, the following shall be considered violations and subject to enforcement action:</p> <p>i. Failure to cease waste feed within 5 minutes of identification of a low oxygen incident.</p> <p>ii. Failure to report a low oxygen incident.</p> <p>iii. Failure to maintain the maximum allowable 100 ppm_{dv} CO at 7 % O₂ concentration limit during a low oxygen incident.</p> <p>This is based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.
73	<p>The permittee shall cease the waste charging to the affected municipal solid waste combustor within five minutes of the low oxygen incident when the oxygen level in the flue gas at the boiler exit drops below 3.0% by volume. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Other: oxygen monitoring continuously and monitoring of feed ram upon occurrence of low oxygen event.[N.J.A.C. 7:27-22.16(e)].</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.
74	<p>Temperature > 800 degrees F The temperature at the inlet of the municipal solid waste combustor convection section before solid waste may be introduced into the furnace. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature: Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.
75	<p>The temperature of the steam from each municipal solid waste combustor shall be continuously monitored and recorded.. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [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
76	The pressures of steam from each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.
77	To obtain start-up/shutdown allowances, the facility must maintain the equipment, operate the equipment properly, take steps to minimize emissions during startup/shutdown and malfunction periods, identify and take steps to prevent malfunctions from occurring in the future, and report malfunctions in accordance with the permit conditions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
78	Start-up Period: commences when the affected incinerator begins the combustion of municipal waste, including continuous, semicontinuous, or batch feeding of municipal solid waste to the furnace. The start-up period does not include any warm-up period when the affected unit is combusting only auxiliary fuel (fuel oil or natural gas) and no municipal solid waste is being combusted. The duration of exemption from emission limits during the start-up period shall not exceed three hours. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
79	The shut down period commences when the feeding of municipal solid waste to the hopper is terminated as a result of a scheduled shutdown or malfunction. The shutdown period ends when municipal solid waste is no longer combusting on the grate. The duration of exemption from emission limits during the shutdown period shall not exceed three hours. Malfunctions resulting in shutdown of a unit shall be considered a shutdown, unless operation of the affected unit is resumed before the shutdown is completed. Resuming the operation of a unit before a shutdown is completed, if the shutdown is the result of a malfunction, shall be considered a malfunction. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
80	WARM-UP ALLOWANCES - The CO emission limits specified in this permit (see U1 OS1, OS2 and OS3) shall not apply during periods, including warm-up periods, when no waste is burned and fossil fuel is being combusted. Only auxiliary fuel (natural gas/fuel oil) shall be combusted during warm-up periods and no MSW shall be combusted. The warm-up period begins upon initiation of auxiliary fuel (natural gas/fuel oil) combusted in the furnace and ends upon introduction of MSW to the furnace. The duration of exemption from CO emission limits shall not exceed 10 consecutive hours per warm-up period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
81	Failure to maintain at least 1500 degrees F one second after secondary air injection except as provided for under permit conditions shall require cessation of waste charging to the affected combustor. Also if all three permanent thermocouples at the 216'6" elevation malfunction, waste charging to the affected combustor shall cease immediately. [N.J.A.C. 7:27-22.16(e)]	Other: monitor feed ram upon occurrence of event[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event in a log book. [N.J.A.C. 7:27-22.16(e)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement												
82	Maximum annual hours of operation for each unit. Hours of Operation <= 8,256 hr/yr. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a log book or readily accessible computer memory. The log shall include specific times of operation for each furnace. [N.J.A.C. 7:27-22.16(e)]	None.												
83	Maximum Gross Heat Input <= 154.6 MMBTU/hr (HHV). Gross Heat Input rate of each MSW combustor from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Maximum Gross Heat Input: Recordkeeping by umentation of burner rated heat input.[N.J.A.C. 7:27-22.16(o)].	None.												
84	<p>Primary fuel is limited to solid waste, specifically the following solid waste materials, as defined by waste ID numbers and defined in N.J.A.C. 7:26-2.13(g):</p> <table border="0" data-bbox="149 748 569 1057"> <tr> <td>I.D.</td> <td>Description</td> </tr> <tr> <td>10.</td> <td>Municipal Waste (household, commercial, and institutional)</td> </tr> <tr> <td>13/13C</td> <td>Bulky Waste/ Construction and Demolition Waste (except as identified below)</td> </tr> <tr> <td>23</td> <td>Vegetative Waste</td> </tr> <tr> <td>25</td> <td>Animal and Food Processing Waste</td> </tr> <tr> <td>27</td> <td>Dry Industrial Waste (except as identified in next Ref. #)</td> </tr> </table> <p>[N.J.A.C. 7:27-22.16(a)]</p>	I.D.	Description	10.	Municipal Waste (household, commercial, and institutional)	13/13C	Bulky Waste/ Construction and Demolition Waste (except as identified below)	23	Vegetative Waste	25	Animal and Food Processing Waste	27	Dry Industrial Waste (except as identified in next Ref. #)	Other: monitor waste feed per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: record waste ID received per delivery.[N.J.A.C. 7:27-22.16(o)].	None.
I.D.	Description															
10.	Municipal Waste (household, commercial, and institutional)															
13/13C	Bulky Waste/ Construction and Demolition Waste (except as identified below)															
23	Vegetative Waste															
25	Animal and Food Processing Waste															
27	Dry Industrial Waste (except as identified in next Ref. #)															

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
85	<p>The following solid and liquid waste materials, as identified by waste ID numbers and defined in N.J.A.C. 7:26-2.13 (g) and (h), and the following regulated medical waste classes as defined in N.J.A.C. 7:26-3A.6(a), are specifically prohibited from disposal at this facility.</p> <p>ID Description 12 Dry Sewage Sludge 13 Bulky Waste (major motor vehicle parts, non combustible construction materials, and non combustible demolition debris. 27 Dry Industrial Waste (specifically the following subcategories only: asbestos and asbestos containing waste; dry non-hazardous pesticides; nonhazardous oil and chemical spill cleanup waste; dry non-hazardous chemical waste; and hazardous waste as defined in N.J.A.C. 7:26-1.4, N.J.A.C. 7:26-8 and 40 CFR 261 which is generated by small quantity generators as defined in N.J.A.C. 7:26-8.3) 72 Bulk Liquid and Semi- Liquid 73 Septic Tank Clean-Out Waste 74 Liquid Sewage Sludge Regulated All classes as defined in N.J.A.C. 7:26-3A.6(a) Medical Waste [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitor waste feed per delivery by review of NJDEPE Waste Origin & Disposal Form at the scale house, visual inspection of unloaded contents at tipping floor, and visual inspection of tipping process for undetected prohibited waste.</p> <p>If the NJDEPE Waste Origin and Disposal form indicates a prohibited waste a Waste Rejection Diversion Form shall be completed and the waste hauler shall direct the load to an appropriate facility. If prohibited waste is detected during the tipping process, tipping shall be halted and the remaining load shall be redirected. All prohibited waste that is discovered on the tipping floor shall be separated and removed from the charging area. The hauler and generator shall then be contacted and arrangements made for the proper disposal of the material.[N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: record vehicle ID, waste type and ID, and origin into computer data base. Keep records of all Waste Rejection Diversion Forms generated for prohibited wastes on site.[N.J.A.C. 7:27-22.16(o)].</p>	None.
86	The facility shall not accept any beryllium-containing waste as defined in 40CFR 61.31(g) [N.J.A.C. 7:27-22.16(e)]	Other: monitor waste per delivery[N.J.A.C. 7:27-22.16(o)].	Other: waste manifests per delivery.[N.J.A.C. 7:27-22.16(o)].	None.
87	Secondary fuel is limited to Natural Gas or No.2 distillate fuel oil, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
88	Natural Gas Usage <= 54.4 MMft ³ /yr is maximum annual consumption of each combustor, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by gas use totalizing meter continuously, based on a consecutive 365 day period (rolling 1 day basis). [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by strip chart or data acquisition (DAS) system continuously cumulative total based on 12 consecutive 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
89	The Belco Acid Neutralization Scrubbers (CD1,3,5) shall be operated at all times when the municipal solid waste incinerators are being operated and in accordance with both the manufacturers specifications and the in accordance with all operating parameters specified in the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
90	Scrubbing Medium Flow Rate \geq 5 and Scrubbing Medium Flow Rate \leq 20 gal/min for each scrubber. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.
91	The specific gravity of the of the lime slurry shall be in the range of 1.065 to 1.135. [N.J.A.C. 7:27-22.16(a)]	Monitored by grab sampling once per shift 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 once per shift during operation. [N.J.A.C. 7:27-22.16(o)]	None.
92	The electrostatic precipitators on each municipal solid waste combustor shall be in operation at all times when the combustors are operating. They shall be operating in accordance with all manufacturer's specifications and control device parameters in the application for the preconstruction permit and application for the operating permit. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(a)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.
93	For each ESP, the secondary voltage and secondary current on each field shall be monitored to insure operation in accordance with the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
94	The owner or operator shall, in accordance with N.J.A.C. 7:27-27.4(i),(j),and (k) conduct optimization tests on any single unit to determine the optimized activated carbon feed rate for mercury emission control. The resultant optimum feed rate from the optimization test shall be applied to all three of the carbon injection units. The owner or operator shall set the optimum carbon feed rate at a level, above which, there will be no appreciable reduction in mercury emissions relative to the amount of activated carbon added. The owner or operator shall operate each carbon injection unit at, or above, the optimized carbon feed rate approved by the Department. The carbon injection mercury control system shall be operated at all times while waste is being combusted in the incinerator. If the optimization tests have been conducted and approved by the Department, the results and the NJDEP letter of approval shall be kept on site for future reference. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep results of optimization tests on site.[N.J.A.C. 7:27-22.16(o)].	None.
95	The rate of carbon injection through CD 11,12,13 shall be greater than or equal to 222.4 lb over an 8-hour block average or the rate established by the Department after the most recent stack tests. [N.J.A.C. 7:27-22.16(a)]	Other: monitor carbon feed auger speed shall be continuously monitored.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously of carbon auger speed. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	None.
96	The carbon feed auger speed for each consecutive eight hour period (12 to 8, 8 to 12, etc) must be maintained at or above the speed that has been determined, by actual measurement during calibration, to deliver the minimum required carbon feed rate. [N.J.A.C. 7:27-22.16(e)]	Other: by weekly calibration and calculation.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation of calibration calculation and any adjustment of auger speed that was made in a log book. [N.J.A.C. 7:27-22.16(e)]	None.

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97	The operation below the minimum allowable carbon feed rate as indicated by the auger speed is a permit violation unless within three hours the condition that causes the excursion is corrected, the proper rate is restored, or the waste charging to the hopper of the affected municipal solid waste incinerator must cease until carbon feed is again at the minimum allowable rate. The total time of all such excursions for each unit in a calendar quarter must not exceed 2% of the total operating time for the quarter. [N.J.A.C. 7:27-22.16(e)]	Other: monitor auger speed continuously[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event cumulative excursion time below minimum carbon feed rate in a logbook. [N.J.A.C. 7:27-22.16(e)]	None.
98	The carbon feed auger speed, versus actual carbon delivery rate, shall be calibrated weekly by actual measurements (collecting and weighing the carbon delivered by the feeder) for each unit. a. The maximum time between calibrations shall not be more than 7 days, +/- 24-hours. b. The date and time of each calibration and the results of the actual carbon delivery rates must be recorded and must be made available upon request by the Department personnel. c. Temporary diversions of carbon during calibrations of carbon feed auger speeds, or calibrations of the carbon feed hoppers, for up to 20 minutes in any calendar day, do not apply to the preceding condition. [N.J.A.C. 7:27-22.16(a)]	Monitored by gravimetric monitoring 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 each week during operation of each calibration calculation and any auger speed adjustment in a log book. [N.J.A.C. 7:27-22.16(o)]	None.
99	The total annual actual quantity of carbon used at the facility must equal or exceed the minimum allowable pounds per hour multiplied by the total hours of waste feed to all three units during the quarter. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually based on a quarterly basis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation to include the total hours of waste feed to each unit, the total combined hours, total minimum combined quantity of carbon required, and total combined actual amount of carbon used. [N.J.A.C. 7:27-22.16(o)]	None.

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100	Written records shall be kept for each unit to accurately document the date, time, and quantity of activated carbon bulk deliveries and the remaining storage silo inventory difference. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Written records shall be kept to accurately maintain the date and time activated carbon deliveries and storage silo inventory differences. All written records shall be maintained and made available for inspection by the Department for a period of 5 years after the date of each record. [N.J.A.C. 7:27-22.16(o)]	None.
101	The SNCR system on each municipal solid waste combustor shall be in operation when the combustors are operating at or above 40 percent steam load and when necessary to achieve compliance. They shall be operating in accordance with all manufacturer's specifications and control device parameters in the BOP100003 application and per the results of the optimization testing program. [N.J.A.C. 7:27-22.16(a)]	Monitored by parametric monitoring system continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
102	For each SNCR, the permittee shall conduct optimization tests (once initially) to determine both the performance of the SNCR system and the optimized urea injection rate vs NOx removal efficiency. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain a copy of the optimization study on site for NJDEP/EPA review.[N.J.A.C. 7:27-22.16(o)].	Submit a performance test protocol: As per the approved schedule. Submit the performance test protocol at least 45 days prior to the desired test date. Conduct optimization test prior to March 31, 2011. Submit the optimization study report within 45 days from the completion of the study. [N.J.A.C. 7:27-22.16(o)]
103	Flowrate \geq 0.1 and Flowrate \leq 15 gal/hr expected flow rate of NOxOUT Urea reagent pending results of optimization testing from BOP100003. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by material feed/flow monitoring continuously. The flow of SNCR reagent entering each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The flow of SNCR reagent entering each municipal solid waste combustor shall be continuously monitored and recorded. [N.J.A.C. 7:27-22.16(o)]	None.
104	Ammonia Slip < 20 ppm @ 7% O2 for the selective non-catalytic reduction system. [N.J.A.C. 7:27-22.16(a)]	Ammonia Slip: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Ammonia Slip: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1, OS0. [N.J.A.C. 7:27-22.16(e)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
105	The owner/operator of a municipal waste combustor must comply with the MWC operating practice requirements codified under 40 CFR 60.53b (b) and (c) of NSPS Subpart Eb. [40 CFR 62.14104]	None.	None.	None.
106	Each chief facility operator and shift supervisor must obtain and maintain a current provisional operator certification from either the American Society of Mechanical Engineers (QRO-1-1994) or a State certification program. [40 CFR 60.35b], [40 CFR 60.54b] & [40 CFR 62.14105(a)]	None.	<p>Other: The facility shall maintain the following records for a period of five years:</p> <p>Records showing the names of the municipal waste combustor chief facility operator, shift supervisors and control room operators who have been fully certified or who are provisionally certified by the American Society of Mechanical Engineers (ASME) or an equivalent State approved certification program, including the dates of initial and renewal and renewal certifications and documentation of current certification.</p> <p>Records showing the names of the municipal waste combustor chief facility operator, shift supervisors and control room operators who have completed the EPA municipal waste combustor operator training course or a State approved equivalent course including documentation of training completion.</p> <p>The training requirement specified here does not apply to chief facility operators, shift supervisors, and control room operators who have obtained full certification from the ASME on or before the effective date of 40 CFR 62 Subpart FFF. [40 CFR 60.39b(d)] &</p> <p>This is based on the recordkeeping requirements at 40 CFR 60.59b(d)(12) [40 CFR 62.14105(a)].</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
107	Each chief facility operator and shift supervisor must complete full certification or must have scheduled a full certification exam with either the American Society of Mechanical Engineers (QRO-1-1994) or a State certification program. [40 CFR 60.35b] & [40 CFR 62.14105(b)]	None.	None.	None.
108	<p>The facility must not be operated unless one of the following persons is on duty:</p> <ul style="list-style-type: none"> - a fully certified chief facility operator; - a provisionally certified chief facility operator who is scheduled to take the full certification exam no later than 12 months after the effective date of 40 CFR 62 Subpart FFF; - a fully certified shift supervisor; or - a provisionally certified shift supervisor who is scheduled to take the full certification exam no later than 12 months after the effective date of 40 CFR 62 Subpart FFF. <p>If one of the persons listed above must leave the facility during their operating shift, a provisionally certified control room operator who is onsite may fulfill this requirement. [40 CFR 60.39b(d)], [40 CFR 60.54b(i)] & [40 CFR 62.14105]</p>	None.	None.	None.
109	When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor. [40 CFR 60.54(b)(c)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
110	When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off site and include that information in the annual report as specified under 40 CFR 60.59b(g)(5). [40 CFR 60.54(b)(c)(2ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
111	<p>When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Administrator. However, the owner or operator of the affected facility must take two actions:</p> <p>(A) Notify the Administrator in writing. In the notice, state what caused the absence and what actions are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.</p> <p>(B) Submit a status report and corrective action summary to the Administrator every four weeks following the initial notification. If the Administrator provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Administrator withdraws the disapproval, municipal waste combustion unit operation may continue. [40 CFR 60.54(b)(c)(2iii)]</p>	None.	None.	None.
112	<p>A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator for up to six months before taking the ASME QRO certification exam. [40 CFR 60.54(b)(c)(3)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
113	<p>The facility shall develop and update on a yearly basis a site-specific operating manual that shall, at a minimum, address the following elements of its municipal waste combustor unit operation:</p> <ul style="list-style-type: none"> - A summary of the applicable standards of 40 CFR 62 Subpart FFF; - A description of basic combustion theory applicable to a MWC unit; - Procedures for receiving, handling and feeding MSW; - Procedures for MWC unit startup, shutdown and malfunction; - Procedures for maintaining proper combustion air supply levels; - Procedures for operating the MWC unit within the standards established under 40 CFR 62 Subpart FFF; - Procedures for responding to periodic upset or off-specification conditions; - Procedures for minimizing particulate matter carryover; - Procedures for handling ash; - Procedures for monitoring MWC unit emissions; - Reporting and Recordkeeping procedures. <p>[40 CFR 60.39b(d)], [40 CFR 50.54b(e)] & [40 CFR 62.14105(e)]</p>	None.	<p>Other: The operating manual must be available for inspection by USEPA or the Department upon request. Any information provided to the Department is available for inspection by the public upon request under the Open Public Records Act (OPRA). [40 CFR 60.39b(d)] & [40 CFR 62.14105(g)].</p>	<p>Submit an Annual Compliance Certification: Annually by the Responsible Official to the Department that the annual update has been completed to his satisfaction. [N.J.A.C. 7:27-22.16(a)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
114	<p>The facility must establish a training program to review the operating manual according to the schedule specified below with each person who has responsibilities affecting the operation of the facility, including but not limited to, chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel and crane/load handlers. Each person undergoing the manual review training shall do so no later than the dates specified below, whichever is later:</p> <ul style="list-style-type: none"> - The date prior to the day the person assumes responsibilities affecting MWC unit operation; or - The date 12 months after the effective date of 40 CFR 62 Subpart FFF; or - Annually following the initial review. <p>The operating manual must be kept in a location readily accessible to each person required to undergo training. [40 CFR 60.54b(f)] & [40 CFR 62.14105(f)]</p>	None.	<p>Other: The facility shall maintain records showing the names of persons who have completed a review of the operating manual including the date of initial review and subsequent annual reviews. This is based on the recordkeeping requirement at 40 CFR 50.59b(d)(13). The records of training must be available for inspection by USEPA or the Department upon request. [40 CFR 60.59b(d)] & [40 CFR 62.14105(a)].</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
115	<p>The facility shall submit a semi-annual report which shall include the following:</p> <ul style="list-style-type: none"> - Information recorded which indicates the average sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load level, particulate matter control device inlet temperature or opacity data were above the applicable limits with reasons for such exceedances and a description of the corrective action taken. - A copy of the annual test report documenting the emissions level and the corrective action taken if the test report indicates any particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride or fugitive ash emission levels that were above applicable pollutant limits. - Identification of the calendar dates when the average hourly carbon feed rate was below the required feed rate with reasons for such occurrences and a description of corrective action taken. - Identification of the calendar dates when the average hourly carbon feed rate is not operational, with reasons for such occurrences and a description of corrective action taken. This is as stated at 40 CFR 60.59b(h). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)] 	None.	Other: All semi-annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the calendar year must be submitted by February 1 of the following year. This is as stated at 40 CFR 50.59(h). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
116	<p>ANNUAL REPORT: The annual report shall include the following:</p> <ul style="list-style-type: none"> - A list of the particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride and fugitive ash emission levels achieved during performance tests - A list of the highest emission level recorded for sulfur dioxide, nitrogen dioxides, carbon monoxide, municipal waste combustor load level and particulate matter control device inlet temperature. - A list of the highest opacity level measured - The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load level and particulate matter control device inlet temperature were not obtained . - The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load and particulate matter control device inlet temperature were excluded from the calculation of average emissions concentrations or parameters. This is based on the requirements of 40 CFR 59b(g)(1). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)] 	None.	Other: All annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the calendar year must be submitted by February 1 of the following year. This is based on the requirements at 40 CFR 60.59b(g). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
117	<p>ANNUAL REPORT: -The facility shall also provide a summary report with the same data specified in the semi-annual reports for the preceding year in order to provide the Administrator with a summary of the performance of the facility over a 2 year period. This summary report shall highlight any emission or parameter level that did not achieve the required emission or parameter limits. - The facility will also include a notification of intent to begin reduced dioxin/furan performance testing schedule as allowed in 40 CFR 60.58(g)(5)(iii), i.e. NSPS Subpart Eb. These are based on the requirements of 40 CFR 60.59b(g). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	<p>Other: All annual reports must be maintained on site as a paper copy for a minimum of 5 years. This is as stated at 40 CFR 60.59b(j). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].</p>	<p>Submit a report: As per the approved schedule that follows. The report for the first half of the calendar year must be submitted by August 1 of the same year. The report for the second half of the calendar year must be submitted by February 1 of the following year. This is based on the requirements at 40 CFR 60.59b(g). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>
118	<p>REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years: Identification of the calendar dates when any of the average emission concentrations, percent reductions, operating parameters or opacity levels are above applicable limits, with reasons for such exceedances and a description of corrective action taken. This is as stated at 40 CFR 60.59b(d)3. [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	<p>Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] & [40 CFR 62.14109].</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
119	<p>REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years: Identification of the calendar dates for which the minimum number of hours of the data specified below have not been obtained and the reasons for not obtaining sufficient data and a description of the corrective action taken:</p> <ul style="list-style-type: none"> - Sulfur Dioxide emissions data - Nitrogen Oxides emissions data - Carbon Monoxide emissions data - Municipal waste combustor unit load data - Particulate matter control device temperature data <p>This is as stated at 40 CFR 60.59b(d)(6). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	None.
120	<p>REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years: Identification of each occurrence that sulfur dioxide emissions data, nitrogen oxides emissions data or operational data (i.e. carbon monoxide emissions, unit load and particulate matter control device temperature) have been excluded from the calculation of average emission concentration or parameters, and the reasons for excluding the data. This is as stated at 40 CFR 60.59b(d)(7). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	None.
121	<p>REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years: The results of daily drift test and quarterly accuracy determinations for sulfur dioxide, nitrogen oxides and carbon monoxide continuous emission monitoring systems as required under 40 CFR Part 60 Appendix F, Procedure 1. This is based on the requirements at 40 CFR 60.59b(d)(8). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
122	<p>REPORTING/RECORDKEEPING: The facility shall maintain the following records for a period of at least five years: The test reports documenting the results of all annual performance tests shall be recorded along with supporting calculations specifically as follows:</p> <ul style="list-style-type: none"> - The results of all annual performance tests conducted to demonstrate compliance with particulate matter, opacity, cadmium, lead, dioxin/furans, hydrogen chloride and fugitive ash emission limits. - The maximum demonstrated municipal waste combustor unit load and maximum demonstrated particulate matter control device temperature during dioxin/furan performance tests. <p>This condition is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)]</p>	None.	Other: Maintain records for a period of at least 5 years from the date of record. [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	None.
123	<p>During operation, the carbon injection system operating parameter(s) that are the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) must equal or exceed the level established during performance tests for mercury and dioxin/furan emissions. This is as required by 40 CFR 60.58b(m)(2). [40 CFR 60.35b & [40 CFR 62.14109(b)]</p>	<p>Monitored by other method (provide description) at the approved frequency Monitored by carbon feed rate, as required at 40 CFR 60.58b(m)(2). [40 CFR 60.39b(d)]&. [40 CFR 62.14109(b)]</p>	<p>Other: The facility shall record the average carbon mass feed rate (in kg/hr or lb/hr) estimated for each hour of operation. This is as required at 40 CFR 60.59b(d)(4)(iii). Also, as required at 40 CFR 60.59b(d)(15), the facility shall record the dates where the carbon feed rate is less than the levels established by the performance tests for mercury and dioxins/furans. [40 CFR 60.39b(d)]&[40 CFR 62.14109(a)].</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
124	The facility shall maintain the following records for a period of at least five years: Identification of the calendar dates when the average carbon mass feed rates as measured by auger speed were less than the hourly carbon feed rates estimated during performance tests for mercury emissions with reasons for such feed rates and a description of corrective action taken. Identification of the calendar dates when the carbon injection system carbon feed auger is not operational, with reasons for such occurrences and a description of corrective actions taken. This is based on the requirements at 40 CFR 60.59b(d)(14). [40 CFR 60.35b & [40 CFR 62.14109(a)]	Other: Carbon usage is continuously measured by auger speed. [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	Other: Maintain records on paper copy or a computer readable format for a period of at least 5 years from the date of record. This is as stated at 40 CFR 60.59b(d) and 40 CFR 60.59b(k). [40 CFR 60.39b(d)] & [40 CFR 62.14109(a)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
125	<p>The standards under 40 CFR 62, Subpart FFF apply at all times except during periods of startup, shutdown, or malfunction. Duration of startup, shutdown, or malfunction periods are limited to 3 hours per occurrence. The startup period commences when the affected facility begins the continuous burning of municipal solid waste and does not include any warmup period when the affected facility is combusting fossil fuel or other nonmunicipal solid waste fuel, and no municipal solid waste is being fed to the combustor. Continuous burning is the continuous, semicontinuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during the startup period when municipal solid waste is not being fed to the grate is not considered to be continuous burning. This is based on the requirement at 40 CFR 60.58b(a)(1). 40 CFR 60.39b(d) & [40 CFR 62.14109(b)]</p>	None.	None.	None.

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Emission Unit: U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-hour block period subject to NSPS subparts Cb, Eb, and 40 CFR 62 Subpart FFF

Operating Scenario: OS1 Normal, OS3 Normal, OS5 Normal

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.013 gr/dscf @ 7% O ₂ in each stack flue for each incinerator except during periods of start up and shut-down, from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
2	TSP \leq 0.03 gr/dscf @ 7% O ₂ in each stack flue for each incinerator including test runs during which incinerator tube rapping is performed except during periods of start up and shut-down, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	TSP: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
3	Particulate matter, \leq 10 μ m \leq 0.013 gr/dscf @ 7% O ₂ , filterable, in each stack flue except during periods of start up and shut-down. [N.J.A.C. 7:27-22.16(a)]	Particulate matter, \leq 10 μ m: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Particulate matter, \leq 10 μ m: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
4	PM-10 (Total) \leq 7.02 lb/hr, including both filterable and condensable catches, from BOP060006. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
5	Particulate Emissions \leq 3.59 lb/hr from each unit except during periods of start up and shut-down, from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	SO ₂ ≤ 50 ppmvd @ 7% O ₂ average concentration in the stack gas of each unit, as determined by continuous monitoring. The 50ppmvd @ 7% O ₂ concentration limit shall not apply to a unit if the average 3 hr concentration of SO ₂ in the flue gas from the unit is less than 20% of the average concentration at the inlet of the acid gas control as determined by continuous emission monitoring. The average 3-hour concentration of SO ₂ in the flue gas can never exceed 100 ppmvd on a dry basis corrected to 7% oxygen (dry basis), from preconstruction permit. The emission limitation applies at all times except during start-up and shutdown. [N.J.A.C. 7:27-22.16(e)]	SO ₂ : Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average, starting and ending on the hour from preconstruction permit. Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 65% valid data (2 hours of data are required to calculate a valid 3-hour average.). [N.J.A.C. 7:27-22.16(e)]	SO ₂ : Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
7	SO ₂ ≤ 34.4 lb/hr from each unit except during periods of start up and shut-down, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	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 test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	SO ₂ : Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
8	HCl Emissions ≤ 50 ppmvd @ 7% O ₂ in the stack gas of each unit for any one hour period, except for 1-hour periods during which the average concentration of HCl (ppmv) in the stack gas is less than or equal to 10% of the average concentration of HCl (ppmv) at the inlet to the acid gas control equipment except during periods of start up, shut-down, or emergency malfunction, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	HCl Emissions: Monitored by stack emission testing annually, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	HCl Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
9	Hydrogen fluoride ≤ 0.38 lb/hr from each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Hydrogen fluoride: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Hydrogen fluoride: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Carbon monoxide <= 60.2 lb/hr from each unit except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
11	Carbon monoxide <= 400 ppmvd @ 7% O2 average in the stack gas of each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Monitored by continuous emission monitor continuously, based on a 1 hour block average during operation. [N.J.A.C. 7:27-22.16(e)]	Carbon monoxide: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
12	NOx (Total) <= 48 lb/hr from each unit except during periods of start-up and shutdown, from BOP100003. [N.J.A.C.7:27-19.13] and. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
13	NOx (Total) <= 300 ppmvd corrected to 7% O2 concentration in the flue gas average in the stack gas of each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C.7:27-19.13] and. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average based on a 1 hour block average, starting and ending on the hour.. Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 65% valid data (2 hours of data are required to calculate a valid 3-hour average.) [N.J.A.C.7:27-19.13] and. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
14	SO3 and H2SO4, as converted and expressed as H2SO4 <= 2.6 lb/hr from each unit shall except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	SO3 and H2SO4, as converted and expressed as H2SO4: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	SO3 and H2SO4, as converted and expressed as H2SO4: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Ammonia <= 1.62 lb/hr from BOP 100003. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	. See stack test requirements U1 OSO. Ammonia: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
16	Lead Emissions <= 0.08 lb/hr from each unit except during periods of start-up and shutdown, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Lead Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Lead Emissions: Recordkeeping by stack test results prior to permit expiration date. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
17	Mercury Emissions <= 0.08 lb/hr from the preconstruction permit. The Mercury emissions from each MSW combustor, shall comply with either of the two following alternatives, except during periods of start-up and shutdown, from preconstruction permit: (a). Mercury emissions shall not exceed 28 micrograms per dry standard cubic meter, corrected to 7% oxygen (annual average based on all source tests performed in a calendar year) or (b). Mercury emissions shall not exceed 5 percent of the mercury emissions in the effluent from the MSW incinerator, prior to the point of injection of activated carbon. Notwithstanding this provision, the emission rate of mercury from each unit shall not exceed 0.08 pounds per hour based on the average value of 3 successive tests conducted on one unit using EPA Reference Method 29, or a method approved by the Department. [N.J.A.C. 7:27-22.16(a)]	Mercury Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Mercury Emissions: Recordkeeping by stack test results upon occurrence of event See stack test requirements (see U1, OS Summary). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
18	Arsenic Emissions <= 0.000525 lb/hr per combustor except during periods of start-up, shutdown, and malfunction, from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Arsenic Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Cadmium Emissions \leq 0.0035 lb/hr per combustor except during periods of start-up and shutdown from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Cadmium Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
20	Nickel Emissions \leq 0.018 lb/hr per combustor except during periods of start-up and shutdown from the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Nickel Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
21	VOC (Total) \leq 3.42 lb/hr as methane from each unit except during periods of start-up and shutdown self imposed limit from operating permit application.. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
22	VOC (Total) \leq 34 ppmvd @ 7% O ₂ of non-methane hydrocarbons as methane, in the stack gas of each unit except during periods of start-up and shutdown from BOP130002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
23	TCDD Emissions (2,3,7,8-) \leq 9.3E-7 lb/hr for each incinerator except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	TCDD Emissions (2,3,7,8-): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	TCDD Emissions (2,3,7,8-): Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
24	Polycyclic Aromatic Hydrocarbons \leq 0.0145 lb/hr (as benzo(a)pyrene) for each incinerator except during periods of start-up and shutdown from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by stack test results upon occurrence of event. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements U1 OSO. [N.J.A.C. 7:27-22.16(o)]
25	Maximum Steam Production Limit \leq 421,600 lbs of steam per boiler in any discrete four - hour block period. [N.J.A.C. 7:27-22.16(a)]	Monitored by integrated steam flow monitor continuously over a distinct four hour block period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.

U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-OS1, OS3, OS5

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	Opacity <= 10 % except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.15109(b) and 40 CFR 60.58b(a)(1). [40 CFR 60.39b(d)] & [40 CFR 62.14103(a)(1)]	Opacity: Monitored by continuous opacity monitor continuously, based on 6 minute blocks. The continuous opacity monitoring system shall conform to Performance Specification 1 in 40 CFR 60, appendix B. This is as required at 40 CFR 60.58b(8). Also, see PT 1 for annual stack testing which is as required at 40 CFR 60.58b(11). [40 CFR 60.39b(d)] & [40 CFR 62.14109(b)]	Opacity: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection. All 6-minute opacity levels shall be available for submittal or review onsite by an inspector, as required at 40 CFR 60.59b(d)(i)(A). Also, see stack testing requirements at PT1. Recordkeeping for stack testing is as required at 40 CFR 60.59b(d)(9). [40 CFR 60.39b(d)]&. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
27	Nitrogen oxides (NOx) <= 205 ppmvd @ 7% O ₂ , 24-hour daily arithmetic average (midnight to midnight) from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b) and 40 CFR 60.58b(a)(1). [40 CFR 60.33b(d)] & [40 CFR 62.14103(d)]	Nitrogen oxides (NOx): Monitored by continuous emission monitoring system continuously, based on a 1 hour block average. Monitor as specified at 40 CFR 60.58b(h)(5). EPA Reference Method 19, section 4.1, shall be used for determining the 24-hour daily arithmetic average nitrogen oxides emission concentration. Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 75% valid data (18 hours of data are required to calculate a valid 24-hour average.). [40 CFR 62.14109(b)]	Nitrogen oxides (NOx): Recordkeeping by strip chart or data acquisition (DAS) system continuously. All 1-hour average nitrogen oxide concentrations shall be recorded and be available for submittal or review onsite by an inspector. This is as specified at 40 CFR 60.59b(d)(2)(i)(C). [40 CFR 62.15109(a)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
28	Particulate Emissions <= 25 mg/dscm @ 7% O ₂ from each MWC on and after April 28, 2009, except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b). [40 CFR 60.33b(a)(1)(i)] & [40 CFR 62.14103(a)(1)]	Particulate Emissions: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1 OS0. Monitoring is based on the requirements at 40 CFR 60.58b(c)(9). [40 CFR 62.14109(b)]	Particulate Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]
29	Lead Emissions <= 0.4 mg/dscm @ 7% O ₂ from each MWC on and after April 28, 2009, except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b). 40 CFR 60.33b(a)(4) & [40 CFR 62.14103(a)(2)]	Lead Emissions: Monitored by stack emission testing annually, based on the average of three 1-hour tests. See stack testing requirements in U1 OS0. Monitoring is based on the Method 29 requirements at 40 CFR 60.58b(d)(1). [40 CFR 62.14109(b)]	Lead Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Cadmium Emissions \leq 0.035 mg/dscm @ 7% O ₂ from each MWC on and after April 28, 2009 except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b). [40 CFR 60.33b(a)(2)(i) & [40 CFR 62.14103(a)(2)]	Cadmium Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring requirements are based on the requirements at 40 CFR 60.58b(d)(1). [40 CFR 62.14109(b)]	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]
31	Mercury Emissions \leq 0.05 mg/dscm @ 7% O ₂ or 15 percent of the potential mercury emission concentration (85-percent reduction by weight), corrected to 7% oxygen, whichever is less stringent, from each MWC on and after April 28, 2009 except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b). [40 CFR 60.33b(a)(3)] &. [40 CFR 62.14103(a)(3)]	Mercury Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring is based on the requirements of 40 CFR 60.58b(d)(2). [40 CFR 62.14109(b)]	Mercury Emissions: Recordkeeping by stack test results annually. See stack testing requirements in U1 OS0.. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9)(i). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [N.J.A.C. 7:27-22.16(o)]
32	SO ₂ \leq 29 ppmvd @ 7% O ₂ , or 25% of the potential sulfur dioxide emission concentration (75 percent reduction by weight or volume) whichever is less stringent, from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b). Compliance with this emission limit is based on a 24-hour daily geometric mean. [40 CFR 60.33b(b)(3)(i)] &. [40 CFR 62.14103(b)(1)]	SO ₂ : Monitored by continuous emission monitoring system continuously, based on a daily average (a 24-hour daily geometric average), or a daily geometric average percent reduction using EPA Reference Method 19. This is based on the requirement at 40 CFR 60.58b(e)(4). Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 75% valid data (18 hours of data are required to calculate a valid 24-hour average.). [40 CFR 62.14109(b)]	SO ₂ : Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall maintain records of all 1-hour average sulfur dioxide emission concentrations. This is as specified at 40 CFR 60.59b(d)(2)(i)(B). [40 CFR 61.14109(a)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
33	HCl Emissions \leq 29 ppmvd @ 7% O ₂ or 5% of the potential hydrogen chloride emission concentration (95 percent reduction by weight or volume) whichever is less stringent, from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b) and 40 CFR 60.58b(a)(1). [40 CFR 60.33b(b)(3)(ii) &. [40 CFR 62.14103(b)(2)]	HCl Emissions: Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring, including determining % reduction, is based on the requirements at 40 CFR 60.58b(f). [40 CFR 62.14109(b)]	HCl Emissions: Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. Recordkeeping is based on the requirements at 40 CFR 60.59b(d)(9). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U1 OS Summary . [None]

U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-

OS1, OS3, OS5

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	Dioxins/Furans (Total) <= 35 ng/dscm @ 7% O ₂ . On and after April 28, 2009, the emission limit for designated facilities that employ an electrostatic precipitator-based emission control system is 35 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen. [40 CFR 60.33b(c)(1)(ii)]	Dioxins/Furans (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. See stack testing requirements in U1 OS0. Monitoring is as required at 40 CFR 60.58b(h)(5), except as specified at 40 CFR 62.14109(d)(1). [40 CFR 62.14109(b)] &. [40 CFR 62.14109(d)(1)]	Dioxins/Furans (Total): Recordkeeping by stack test results upon occurrence of event. See stack testing requirements in U1 OS0. This is as specified at 40 CFR 60.59b(d)(9)(i). [40 CFR 62.14109(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS0. [N.J.A.C. 7:27-22.16(o)]
35	CO <= 100 ppmvd @ 7% O ₂ from each MWC except during periods of startup, shutdown, and malfunction. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.14109(b), 40 CFR 60.34b(a) and 40 CFR 60.58b(a)(1). [40 CFR 62.14104(a)]	CO: Monitored by continuous emission monitoring system continuously, based on a 1 hour block average which shall be used to calculate a 4-hour block average. The continuous emission monitoring system shall be operated according to Performance Specification 4A in 40 CFR 60, appendix B. Monitoring is as specified at 40 CFR 60.58b(i)(1), 40 CFR 60.58b(i)(3), and 40 CFR 60.58b(i)(4). Valid Data Capture Requirement:: in order for a compliance averaging period to be valid, it must be calculated based on a minimum of 75% valid data (3 hours of data are required to calculate a valid 4-hour average.). [40 CFR 62.14109(b)]	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. All 1-hour average CO concentrations shall be recorded and available for submittal to the administrator or review onsite by an inspector. This is as stated at 40 CFR 60.59b(d)(2)(i)(D). [40 CFR 62.14109(a)(1)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal The semi-annual report shall include the highest emission level recorded for CO and the total number of hours that data for CO was excluded from the calculation of average emission concentrations. This is as stated at 40 CFR 60.59b(g)(1)(ii) and 40 CFR 60.59b(g)(1)(v). [40 CFR 60.39b(d)]&. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	<p>The facility must not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9-min. per 3-hour period), except as provided below:</p> <p>The emission limit specified above does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified above does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.</p> <p>The provisions specified above do not apply during maintenance and repair of ash conveying systems. 40 CFR 60.39b(d)& [40 CFR 62.14106(a)]</p>	<p>Monitored by visual determination annually, based on the average of three tests Compliance with fugitive ash emission limits shall be based on a series of three one hour observations, performed annually, using EPA Reference Method 22. This is based on the requirement at 40 CFR 60.58b(k). [40 CFR 60.39b(d)]& [40 CFR 62.14106(a)]</p>	<p>Other: Maintain records of annual method 22 results along with all supporting calculations. This is as specified at 40 CFR 60.59b(d)(9). [40 CFR 60.39b(d)]&[40 CFR 62.14109(a)].</p>	None.
37	<p>The owner/operator of a municipal waste combustor must comply with the MWC operating practice requirements codified under 40 CFR 60.53b (b) and (c) of NSPS Subpart Eb. [40 CFR 62.14104]</p>	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	<p>The temperature at the particulate control device inlet shall not exceed the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b by more than 17 degrees Celsius, except: (1) During the annual dioxin/furan performance test the 2 weeks preceding the annual dioxin/furan performance test, no particulate matter control device temperature limitations are applicable; (2) The particulate matter control device temperature limits may be waived in accordance with permission granted by the Administrator or delegated State regulatory authority for the purpose of evaluation system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. This is based on the requirement at .[40 CFR 60.34b(b)], [40 CFR 60.53b(c)(1)-(2)], [40 CFR 60.58b(i)(9)] [40 CFR 62.14104(b)]</p>	<p>Monitored by temperature instrument continuously, based on a 1 hour block average which shall be used to calculate 4-hour block arithmetic averages, based on the requirement at 40 CFR 60.58b(i)(7). [40 CFR 60.39b(d)] & . [40 CFR 62.14109(b)]</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously. Continuously recorded data may be printed periodically and stored in a permanent form suitable for submittal or on-site inspection. All 4-hour block arithmetic temperature averages shall be computed and recorded and be available for submittal to the Administrator or review onsite by an inspector. This is as stated at 40 CFR 60.59b(d)(2)(ii). [40 CFR 60.39b(d)] & . [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	<p>No owner or operator of an affected facility shall cause it to operate at a load level greater than 110 percent of the maximum demonstrated municipal waste combustor unit load as defined in 40 CFR 60.51b, except: (1) During the annual dioxin/furan performance test and the 2 weeks preceding that test, no municipal waste combustor unit load limit is applicable; (2) The municipal waste combustor unit load limit may be waived in accordance with permission granted by the Administrator or delegated State regulatory authority for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. This is as stated at [40 CFR 60.34b(b)] & [40 CFR 60.53b(b)(1)-(2)] & [40 CFR 60.58b(j)(8)] [40 CFR 62.14104(b)]</p>	<p>Other: The owner or operator shall operate a steam or feedwater flow meter on a continuous basis, as required at 40 CFR 60.58(i)(6)(i). Steam (or feed water flow) flow calculations as required under 40 CFR 60.58(i)(6)(i) shall be in accordance with ASME PTC 4.1-1964 (Reaffirmed 1991), Power test codes : Test Code for Steam Generating Units (with 1968 and 1969 Addenda). For design, construction, installation, calibration, and use of nozzles and orifices required in 40 CFR 60.58(i)(6)(ii), proceed in accordance with the recommendations in ASME Interim Supplement 19.5 on Instruments and Apparatus: Application, Part II of Fluid Meters, 6th Edition (1971). Measurement devices such as flow nozzles and orifices are not required to be recalibrated after they are installed, as stipulated at 40 CFR 58b(i)(6)(iii). Also, as stipulated at 40 CFR 58b(i)(6)(iv), all signal conversion elements associated with steam (or feedwater flow) measurements must be calibrated according to the manufacturer's instructions before each dioxin/furan performance test, and at least once per year. [40 CFR 60.39b(d)] & [40 CFR 62.14104(b)].</p>	<p>Recordkeeping by strip chart or data acquisition (DAS) system continuously continuously recorded data can be printed and stored in a permanent form suitable for submittal or on-site inspection, based on the requirement at 40 CFR 60.58(i)(6)(i). [40 CFR 60.39b(d)] & [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>

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

Emission Unit: U1 Three MSW Combustors with a steaming rate of 421,600 lb per distinct 4-hour block period subject to NSPS subparts Cb, Eb, and 40 CFR 62 Subpart FFF

Operating Scenario: OS2 Emergency Malfunction, OS4 Emergency Malfunction, OS6 Emergency Malfunction

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>EMERGENCY MALFUNCTION: An emergency malfunction means any sudden and unavoidable failure to the equipment or control apparatus to operate in a normal manner. Malfunctions that are caused entirely or in part by improperly designed equipment, lack of preventative maintenance, careless or improper operation, operator error, or any preventable upset condition or preventable equipment or control apparatus breakdown shall not be considered emergency malfunctions. In any enforcement proceeding the Permittee seeking to establish the occurrence of an emergency malfunction has the burden of proof. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	<p>Submit a report: As per the approved schedule. For a permittee to claim an emission limit exceedance is due to an emergency malfunction the Permittee must submit a written preliminary notice to the Department by 5:00pm of the second full working day following the incident. This preliminary notice must include: A description of the malfunction and how it resulted in a contravention. A description of the measures taken to correct the conditions causing the contravention. A description of the measures taken to minimize the excess emissions including curtailment or shutdown of the combustor. This provision does not relieve the Permittee from immediately notifying the Department of any release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment, or which might result in citizen complaints, pursuant to N.J.S.A. 26:2C-19(e). [N.J.A.C. 7:27-22.16(o)]</p>
2	<p>EMERGENCY MALFUNCTION: The Department will review the Emergency Malfunction asserted by the facility. If the Department deems that any Emergency Malfunction was asserted incorrectly, the Department will reject the claim and take appropriate enforcement action. [N.J.A.C. 7:27-22.16(a)]</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
3	<p>EMERGENCY MALFUNCTION: To obtain malfunction allowances, the facility must:</p> <ul style="list-style-type: none"> a. Maintain the equipment; b. Operate the equipment properly; c. Take steps to minimize emissions during malfunction periods; d. Identify and take steps to prevent malfunctions from occurring in future; and e. Report malfunctions in accordance with the reporting requirements of this permit. <p>[N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.
4	<p>EMERGENCY MALFUNCTION: Within thirty days of an emergency malfunction, the Permittee shall submit to the Department certified information which identifies the contravention and includes the following:</p> <p>Copies of relevant operating data including but not limited to continuous monitoring data or portions of logbooks that show the malfunction to be sudden and unavoidable. Relevant data shall include at a minimum data recorded one hour before, during, and one hour after the malfunction.</p> <p>List of the actions taken to prevent the potential for the malfunction from occurring in the future.</p> <p>Certification in accordance with N.J.A.C. 7:27-1.39 that the malfunction did not occur as a result of: improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error, and certification that the information contained in the preliminary notice is correct. If the information submitted in the preliminary notice is inaccurate, a certified revision of the notice shall be submitted. [N.J.A.C. 7:27-22.16(e)]</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												
5	<p>EMERGENCY MALFUNCTION: The duration of emission excursions caused by malfunctions shall not exceed the following limits per occurrence and percent of operating time:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">SO2</td> <td style="width: 25%;">180min.</td> <td style="width: 15%;">2%</td> <td style="width: 45%;"></td> </tr> <tr> <td>CO</td> <td>60min</td> <td>0.2%</td> <td></td> </tr> <tr> <td>NOx</td> <td>180min</td> <td>2%</td> <td></td> </tr> </table> <p>[N.J.A.C. 7:27-22.16(e)]</p>	SO2	180min.	2%		CO	60min	0.2%		NOx	180min	2%		<p>Monitored by continuous emission monitor upon occurrence of event (and hour time monitor). [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>
SO2	180min.	2%														
CO	60min	0.2%														
NOx	180min	2%														
6	<p>EMERGENCY MALFUNCTION: The duration of operating requirement excursions caused by malfunctions shall not exceed the following limits per occurrence and percent of operating time:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">Temperature</td> <td style="width: 25%;">60min.</td> <td style="width: 15%;">0.1%</td> <td style="width: 45%;"></td> </tr> </table> <p>[N.J.A.C. 7:27-22.16(e)]</p>	Temperature	60min.	0.1%		<p>Monitored by parametric monitoring system upon occurrence of event (temperature monitor and hour time monitor). [N.J.A.C. 7:27-22.16(e)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(o)]</p>	<p>None.</p>								
Temperature	60min.	0.1%														
7	<p>EMERGENCY MALFUNCTION: Neither the time , nor the emissions, during the periods of emergency malfunctions meeting the above criteria shall be used in the calculation of emission levels for comparison to allowable emission limits. [N.J.A.C. 7:27-22.16(e)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>												
8	<p>EMERGENCY MALFUNCTION: Malfunctions resulting in an excursion of an emission limit with an averaging time of less than or equal to one hour shall be deemed to have occurred during the entire applicable averaging time of that emission limit. Malfunction resulting in an excursion of an emission limit with an averaging time of greater than one hour shall be deemed to have occurred only during the hours of the malfunction. [N.J.A.C. 7:27-22.16(e)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>												

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	EMERGENCY MALFUNCTION: Any visible emission caused by a malfunction shall not exceed an average of 10% opacity in any 6 minute block period, as determined by the continuous emission monitoring equipment or USEPA Reference Method 9. [N.J.A.C. 7:27-22.16(e)]	Monitored by continuous opacity monitor upon occurrence of event, based on 6 minute blocks. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Data may be periodically printed and maintained reliably in a log book on site. [N.J.A.C. 7:27-22.16(e)]	None.

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

Emission Unit: U5 3500 ft3 Lime Storage Silo A

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 99% efficiency of collection. Particulate Emissions <= 2.2 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The owner or operator shall not use this emission unit in a manner which will cause visible emissions greater than 20 percent opacity, exclusive of condensed water vapor, for a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall use this emission unit in a manner which will cause no visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the monitoring and record keeping requirements for the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, other than condensed water vapor, greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19; (2) If the corrective action taken in step one 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 a test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. [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 in a log book or by electronic data storage in readily accessible computer memories each month during operation. The permittee must 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(s) of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
5	All emissions from this emission unit are below the reporting thresholds as stated in N.J.A.C.7:27:22, Appendix A & B, based on the self-imposed limitation in the operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	
6	The tank content is limited to Pebble Lime from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD7). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [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 each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
9	Pressure Drop Across the Baghouse \geq 3.9 and Pressure Drop Across the Baghouse \leq 8 inches w.c. for CD7. [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: U6 3500 ft3 Lime Storage Silo B

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 99% efficiency of collection. Particulate Emissions <= 2.2 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	The owner or operator shall not use this emission unit in a manner which will cause visible emissions greater than 20 percent opacity, exclusive of condensed water vapor, for a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall use this emission unit in a manner which will cause no visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the monitoring and record keeping requirements for the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, other than condensed water vapor, greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19; (2) If the corrective action taken in step one 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 a test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. [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 in a log book or by electronic data storage in readily accessible computer memories each month during operation. The permittee must 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(s) of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
4	All emissions from this emission unit are below the reporting thresholds as stated in N.J.A.C.7:27:22, Appendix A & B, based on the self-imposed limitation in the operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	
5	The tank content is limited to Pebble Lime from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD8). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [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 each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
8	Pressure Drop Across the Baghouse \geq 3.9 and Pressure Drop Across the Baghouse \leq 8 inches w.c. for CD8. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP \leq 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U7 Activated Carbon Storage

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 99% efficiency of collection. Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The owner or operator shall not use this emission unit in a manner which will cause visible emissions greater than 20 percent opacity, exclusive of condensed water vapor, for a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall use this emission unit in a manner which will cause no visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the monitoring and record keeping requirements for the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, other than condensed water vapor, greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19; (2) If the corrective action taken in step one 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 a test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. [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 in a log book or by electronic data storage in readily accessible computer memories each month during operation. The permittee must 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(s) of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
5	All emissions from this emission unit are below the reporting thresholds as stated in N.J.A.C.7:27:22, Appendix A & B, based on the self-imposed limitation in the operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	
6	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD9). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
8	Pressure Drop Across the Baghouse \geq 0 and Pressure Drop Across the Baghouse \leq 5 inches w.c. for CD9. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	The tank content is limited to carbon.. [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: U8 Lime Bag Breaker

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 0.02 gr scf. Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The owner or operator shall not use this emission unit in a manner which will cause visible emissions greater than 20 percent opacity, exclusive of condensed water vapor, for a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
4	The owner or operator shall use this emission unit in a manner which will cause no visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	All emissions from this emission unit are below the reporting thresholds as stated in N.J.A.C.7:27:22, Appendix A & B, based on the self-imposed limitation in the operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	
6	Raw material percentage in the material processed. Lime <= 100 % By Wt. from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	The tank content is limited to lime and water from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD10). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [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 each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U9 Ash Conveying and Fly Ash Conditioning System

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible water vapor, except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)]&. [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the monitoring and record keeping requirements for the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, other than condensed water vapor, greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19; (2) If the corrective action taken in step one 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 a test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a bound log book or by electronic data storage in readily accessible computer memories each month during operation. The permittee must 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(s) of person(s) conducting inspection. [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
2	<p>The facility must not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9-min. per 3-hour period), except as provided below:</p> <p>The emission limit specified above does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified above does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.</p> <p>The provisions specified above do not apply during maintenance and repair of ash conveying systems. 40 CFR 60.39b(d)& [40 CFR 62.14106(a)]</p>	<p>Monitored by visual determination annually, based on the average of three tests Compliance with fugitive ash emission limits shall be based on a series of three one hour observations, performed annually, using EPA Reference Method 22. This is based on the requirement at 40 CFR 60.58b(k). [40 CFR 60.39b(d)]&. [40 CFR 62.14106(a)]</p>	<p>Other: Maintain records of annual method 22 results along with all supporting calculations. This is as specified at 40 CFR 60.59b(d)(9). [40 CFR 60.39b(d)]&[40 CFR 62.14109(a)].</p>	<p>None.</p>
3	<p>All emissions from this emission unit are below the reporting thresholds as stated in N.J.A.C.7:27:22, Appendix A & B, based on the self-imposed limitation in the operating permit application. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	
4	<p>Following the completion of the new ferrous and non-ferrous metal recovery system, the permittee shall no longer recover metal from fly ash or combined fly ash and bottom ash. Metal recovery shall be from bottom ash only. Prior to completion of the new metal recovery system, the permittee is authorized to continue its existing ferrous metal recovery system to recover metal from combined fly ash and bottom ash from BOP140002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>FUGITIVE ASH EMISSIONS -The facility must not cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9-min. per 3-hour period), except during periods of startup, shutdown, and malfunction and as provided below. Startup, shutdown, and malfunction exception is specified by 40 CFR 62.15109(b) and 40 CFR 60.58b(a)(1).</p> <p>- The emission limit specified above does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified above does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.</p> <p>- The provisions specified above do not apply during maintenance and repair of ash conveying systems. 40 CFR 60.39b(d)& [40 CFR 62.14106(a)]</p>	<p>Monitored by visual determination annually, based on the average of three Department validated stack test runs on an annual basis (no less than 9 calendar months and no more than 12 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period).. Compliance with fugitive ash emission limits shall be based on a series of three one hour observations, performed annually, using EPA Reference Method 22. This is based on the requirement at 40 CFR 60.58b(k). [40 CFR 60.39b(d)]&. [40 CFR 62.14106(a)]</p>	<p>Other: Maintain records of annual method 22 results along with all supporting calculations. This is as specified at 40 CFR 60.59b(d)(9). [40 CFR 60.39b(d)]&[40 CFR 62.14109(a)].</p>	<p>Submit a report: Semi-annually on January 31 and July 31 of each year. Include observation results, and any corrective action taken for exceedences in semi-annual report. This is based on the requirements at 40 CFR 60.59b(g)(1) and 40 CFR 59b(h). [40 CFR 60.39b(d)]&. [40 CFR 62.14109(a)]</p>

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

Emission Unit: U9 Ash Conveying and Fly Ash Conditioning System

Operating Scenario: OS1 Boiler house exhaust fans and ash house doorways, OS3 Ash and Metal Heavy duty vibrating feeder conveyor, OS4 Axial Pole permanent magnet-new, OS5 Radial Pole permanent drum magnet, OS6 Heavy duty troughing belt, OS7 Heavy Duty Vibrating feeder conveyor, OS8 Eddy Current Separator, OS9 ASH and METAL hEAVY DUTY TROUHING BELT, OS10 Heavy Duty Vibrating Feeder

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.05 lb/hr Emission limit from the operating permit modification BOP140002. [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: U9 Ash Conveying and Fly Ash Conditioning System

Operating Scenario: OS2 Fly Ash Conditioning System

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 99% efficiency of collection. Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	All particulate emissions from this operating scenario shall be exhausted through a cartridge filter (CD14). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The owner or operator shall inspect and maintain the dust collector and replace the filter media on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination daily. [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 each inspection and maintenance event in a bound logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
4	PM-10 (Total) <= 0.05 lb/hr Emission limit from the operating permit modification BOP120001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.05 lb/hr Emission limit from the operating permit modification BOP120001. [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 Diesel Generator predating NSPS III applicability

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 3.2 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[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)]	Other: Monitored by review of supplier certification showing sulfur content on each change of supplier or upon change of formulation.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by supplier certification showing fuel sulfur content with each change of supplier or upon change of formulation.[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 # 2 fuel oil or diesel fuel. [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 \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input \leq 5.1 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	VOC (Total) \leq 0.322 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) \leq 0.322 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO \leq 0.176 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	SO ₂ \leq 0.052 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP \leq 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	PM-10 (Total) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	The date of construction and model year of the engine driven electric generator shall predate the applicable requirements of NSPS Subpart IIII. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	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.
19	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.

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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 of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, or reconstruct a major source that becomes a major- emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most 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 the required air permit application(s): As per the approved schedule. The application shall be submitted as soon as practicable before actual construction or reconstruction begins. [40 CFR 63.5(d)(1)(i)]
21	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)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	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 must 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)]
23	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, Air and Waste Management Division, 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)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>Maintain compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply at all times. At all times operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. 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, review of operation and maintenance records, and inspection of the source.</p> <p>[40 CFR 63.6605]</p>	None.	None.	None.
25	<p>Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2)(i)]</p>	None.	None.	None.

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

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

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

Emission Unit: U10 Diesel Generator predating NSPS III applicability

Operating Scenario: OS1 Periodic running of engine for testing and maintenance, scheduled maintenance, and emergency shutdown .

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.2 lb/hr based on manufacturers data, from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
2	PM-10 (Total) <= 0.2 lb/hr based on manufacturers data, from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
3	Carbon monoxide <= 3.53 lb/hr based on manufacturers data, from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	Carbon monoxide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Carbon monoxide: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
4	SO2 <= 1.02 lb/hr from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Nitrogen oxides (NOx) <= 6.46 lb/hr based on manufacturers data, from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	Nitrogen oxides (NOx): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Nitrogen oxides (NOx): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 6.46 lb/hr based on manufacturers data, from minor modification BOP080003. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Camden County Energy Recovery Associates I **Facility ID (AIMS):** 51614

Street 600 MORGAN BLVD
Address: CAMDEN, NJ 08104

Mailing 600 MORGAN BLVD
Address: CAMDEN, NJ 08104

County: Camden
Location Morgan Blvd and I-676
Description:

State Plane Coordinates:	
X-Coordinate:	318,966
Y-Coordinate:	393,642
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-Program
Source Type:	DEP Program Database

Industry:	
Primary SIC:	4953
Secondary SIC:	
NAICS:	562213

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

Contact Type: Air Permit Information Contact

Organization: Camden Energy Recovery Associates L.P. **Org. Type:** Utility
Name: Patricia Earls **NJ EIN:** 22218299000
Title: Environmental Manager
Phone: (973) 817-7322 x **Mailing Address:** 600 Morgan Blvd
Fax: (973) 344-0900 x Camden, NJ 08104
Other: (201) 621-1845 x
Type: Mobile
Email: pearls@covanta.com

Contact Type: BOP - Operating Permits

Organization: CCERA **Org. Type:** Corporation
Name: Richard Harrington **NJ EIN:** 22218299000
Title: Plant Manager
Phone: (856) 966-7174 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (609) 828-3728 x
Type: Mobile
Email: rharrington@covantaenergy.com

Contact Type: Emission Statements

Organization: Camden Energy Recovery Associates L.P. **Org. Type:** Utility
Name: Patricia Earls **NJ EIN:** 22218299000
Title: Environmental Manager
Phone: (973) 817-7322 x **Mailing Address:** 600 Morgan Blvd
Fax: (973) 344-0900 x Camden, NJ 08104
Other: (201) 621-1845 x
Type: Mobile
Email: pearls@covanta.com

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

Contact Type: Environmental Officer

Organization: CCERC **Org. Type:** Corporation
Name: Victor Camporine **NJ EIN:** 22218299000
Title: Environmental Specialist
Phone: (856) 966-7174 x **Mailing Address:** 600 Morgan Boulevard
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (908) 763-1860 x
Type: Mobile
Email: vcamporine@covantaenergy.com

Contact Type: Fees/Billing Contact

Organization: Camden County Energy Recovery Associates, LP **Org. Type:** LP
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manager
Phone: (856) 966-7174 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (609) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

Contact Type: General Contact

Organization: Camden County Recovery Associates L.P. **Org. Type:** Utility
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manger
Phone: (856) 757-6301 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 757-7990 x Camden, NJ 08104
Other: (609) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: On-Site Manager

Organization: Camden County Recovery Associates L.P. **Org. Type:** Utility
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manger
Phone: (856) 757-6301 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 757-7990 x Camden, NJ 08104
Other: (609) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

Contact Type: Operator

Organization: Camden County Energy Recovery Associates, LP **Org. Type:** LP
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manager
Phone: (856) 966-7174 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (609) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

Contact Type: Owner (Current Primary)

Organization: Covanta Energy Corporation **Org. Type:** Corporation
Name: Covanta Energy Corporation **NJ EIN:**
Title:
Phone: () - x **Mailing Address:** 445 South Street
Fax: () - x Morristown
Other: () - x Morristown, NJ 07960
Type:
Email:

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

Contact Type: Owner (Former)

Organization: Foster Wheeler Inc

Org. Type: Corporation

Name: Foster Wheeler Inc.

NJ EIN:

Title:

Phone: () - x

Mailing Address: 55 Frontage Road
PO Box 9000
Hampton, NJ 08827

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Registered Agent

Organization: CSC United States Corporation Company

Org. Type: Corporation

Name: CSC United States Corporation Company

NJ EIN:

Title:

Phone: (302) 636-5400 x

Mailing Address: 1013 Center Road
Wilmington, DE 19805

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Regulation Officer

Organization: Camden County Energy Recovery Associates, LP

Org. Type: LP

Name: Patrick J. Friscia

NJ EIN: 22218299000

Title: environmental Specialist

Phone: (856) 757-6305 x

Mailing Address: 600 Morgan Blvd
600 Morgan BLVD
Camden, NJ 08104

Fax: (856) 966-7990 x

Other: (215) 833-8635 x

Type: Mobile

Email: pfriscia@covanta.com

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

Contact Type: Responsible Official

Organization: Camden County Energy Recovery Associates L.P **Org. Type:** Utility
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manager
Phone: (856) 757-6301 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (609) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

Contact Type: Responsible Party

Organization: Camden County Energy Recovery Associates L.P. **Org. Type:** Utility
Name: Todd Frace **NJ EIN:** 22218299000
Title: Facility Manger
Phone: (856) 757-6301 x **Mailing Address:** 600 Morgan Blvd
Fax: (856) 966-7990 x Camden, NJ 08104
Other: (215) 828-8307 x
Type: Mobile
Email: tfrace@covanta.com

Contact Type: Security Contact

Organization: **Org. Type:**
Name: Steven Lester **NJ EIN:**
Title: Safety Coordinator
Phone: (856) 966-7174 x **Mailing Address:**
Fax: (856) 966-7990 x
Other: (856) 237-7990 x
Type: Mobile
Email: slester@covantaenergy.com

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

Contact Type: Title V Compliance Certification Contact

Organization:

Name: Richard R Harrington

Title: Facility Manager

Phone: (856) 966-7174 x

Fax: (856) 966-7990 x

Other: (609) 828-8307 x

Type: Mobile

Email: rharrington@covantaenergy.com

Org. Type:

NJ EIN:

**Mailing
Address:**

**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	Admin Bldg Heater(natural gas)	Fuel Combustion Equipment (Other)	Administration Building	0.014	0.123	0.052	0.001	0.015	0.015			
IS2	20,000 gal #2 fuel oil storage tank	Storage Vessel		0.005								
IS3	Cooling Tower (<50lb/hr chemical additives)	Other Equipment						0.001	0.001			
Total				0.019	0.123	0.052	0.001	0.015	0.015	0.000	0.00000000	0.000

BOP200001

**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	SG-201A	MSW Boiler A	Boiler	114915	3/1/1991	No	3/1/1991	
E2	SG-201B	MSW Boiler B	Boiler	116471	3/1/1991	No	3/1/1991	
E3	SG-201C	MSW Boiler C	Boiler	116472	3/1/1991	No	3/1/1991	
E5	BN-201A	Lime Storage Silio A	Storage Vessel	085834	3/1/1991	No	3/1/1991	
E6	BN-201B	Lime Storage Silio B	Storage Vessel	085835	3/1/1991	No	3/1/1991	
E7	Carbon Silio	Activated Carbon Silio	Storage Vessel	01-04-176811768/176811768 logs#'s-equipment permitted but certification numbers not issued	12/1/1995	No	12/1/1995	
E8	TK-105	Lime Bag Breaker	Manufacturing and Materials Handling Equipment	109345	3/1/1991	No	3/1/1991	
E9	Ash Conveyor	Ash Conveyoring System	Manufacturing and Materials Handling Equipment	114915/116471/1154	3/1/1991	No	3/1/1991	
E10	Fly Ash Syst	Fly Ash Conditioning Systems (Conditioning Bins & Conveyor)	Manufacturing and Materials Handling Equipment	Ash Conveyor System serves all 3 boilers		No		
E11	Generator	Diesel Generator	Emergency Generator			No		
E12	VF204A	Vibrating Feed Conveyor	Manufacturing and Materials Handling Equipment		9/10/2014	No		

BOP200001

**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
E13	DM250A	Axial Pole Permanent Drum	Manufacturing and Materials Handling Equipment		9/10/2014	No		
E14	DM205B	Drum Magnet Separator	Manufacturing and Materials Handling Equipment		3/1/1991	No		
E15	CR206A	Ash and Metal Handling Conveyor	Manufacturing and Materials Handling Equipment		9/10/2014	No		
E16	VF207A	Vibratory Feeder	Manufacturing and Materials Handling Equipment		9/10/2014	No		
E17	EC208A	Eddy Current Separator	Manufacturing and Materials Handling Equipment		9/10/2014	No		
E18	CR206B	Ash and Metal Transfer Belt Conveyor	Manufacturing and Materials Handling Equipment		9/10/2014	No		
E19	VF209	Vibratory Feeder	Manufacturing and Materials Handling Equipment		9/10/2014	No		

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E2 (Boiler)
Print Date: 6/11/2020

Make:
Manufacturer:
Model:
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):
Boiler Type:
Utility Type:
Output Type:
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type:

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

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

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E3 (Boiler)
Print Date: 6/11/2020

Make:
Manufacturer:
Model:
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):
Boiler Type:
Utility Type:
Output Type:
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type:

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

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

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E1 (Boiler)
Print Date: 6/11/2020

Make:
Manufacturer:
Model:
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):
Boiler Type:
Utility Type:
Output Type:
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type:

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

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

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E5 (Storage Vessel)
Print Date: 6/11/2020

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

3,500

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

29.00

Length (ft):

Width (ft):

Diameter (ft):

12.40

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

ft^3/min

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

Roof

Roof Type:

Vertical fixed roof tank

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

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E5 (Storage Vessel)

Print Date: 6/11/2020

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E6 (Storage Vessel)
Print Date: 6/11/2020

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

3,500

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?
Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

29.00

Length (ft):

Width (ft):

Diameter (ft):

12.40

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

ft^3/min

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

Roof

Roof Type:

Vertical fixed roof tank

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

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E6 (Storage Vessel)

Print Date: 6/11/2020

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E7 (Storage Vessel)
Print Date: 6/11/2020

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

4,550

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

2,960.00

Length (ft):

Width (ft):

Diameter (ft):

14.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

11.00

Units:

ft^3/min

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

Roof

Roof Type:

Vertical fixed roof tank

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

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E7 (Storage Vessel)

Print Date: 6/11/2020

Does the storage vessel
have a Conservation Vent?

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E8 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	Lime Bag Breaker (TK-105)
Capacity:	1.00E+02
Units:	other units <input type="button" value="v"/>
Description (if other):	lbs/batch
Have you attached a diagram showing the location and/or the configuration of this equipment?	No <input type="button" value="v"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No <input type="button" value="v"/>
Comments:	

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E9 (Manufacturing and Materials Handling Equipment)

Make:	conveyor system
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Ash Conveyor System
Capacity:	2.63E+04
Units:	other units
Description (if other):	lbs/hr

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E10 (Manufacturing and Materials Handling Equipment)

Make:	ash conditioning sytem
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Fly Ash Conditioning System
Capacity:	4.20E+03
Units:	other units
Description (if other):	lb/hr

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E11 (Emergency Generator)
Print Date: 6/11/2020

Make:

Manufacturer:

Model:

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

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

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

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

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E12 (Manufacturing and Materials Handling Equipment)

Make:	
Manufacturer:	Eriez
Model:	P-Rex
Type of Manufacturing and Materials Handling Equipment:	Ferrous Recovery System
Capacity:	2.00E+01
Units:	other units
Description (if other):	tph
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:	Includes vibratory feeder, drum magnet, conveyor, and bypass drum magnet

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP200001 E13 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Non-Ferrous Recovery System"/>
Capacity:	<input type="text" value="2.00E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tph"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="Yes"/>
Comments:	<input type="text" value="Includes vibratory feeder, eddy current seperator, transfer conveyor, and storage bin"/>

BOP200001

**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	Scrubber A	A400	Scrubber (Other)	3/1/1991	No	3/1/1991	
CD2	ESP A	A800	Electrostatic Precipitator	3/1/1991	No	3/1/1991	
CD3	Scrubber B	A400	Scrubber (Other)	3/1/1991	No	3/1/1991	
CD4	ESP B	A800	Electrostatic Precipitator	3/1/1991	No	3/1/1991	
CD5	Scrubber C	A400	Scrubber (Other)	3/1/1991	No	3/1/1991	
CD6	ESP C	A800	Electrostatic Precipitator	3/1/1991	No	3/1/1991	
CD7	Lime Silio A	A600	Particulate Filter (Baghouse)	3/1/1991	No	3/1/1991	
CD8	Lime Silio B	A600	Particulate Filter (Baghouse)	3/1/1991	No	3/1/1991	
CD9	Carbon Silio	A600	Particulate Filter (Baghouse)	12/1/1995	No	12/1/1995	
CD10	Lime Breaker	A600	Particulate Filter (Baghouse)	3/1/1991	No	3/1/1991	
CD11	Carb Injec A	A300	Adsorber	12/1/1995	No	12/1/1995	
CD12	Carb injec B	A300	Adsorber	12/1/1995	No	12/1/1995	
CD13	Carb injec C	A300	Adsorber	12/1/1995	No	12/1/1995	
CD14	Fly Ash Syst	F.A. Conditioning System	Particulate Filter (Cartridge)	12/1/2001	No	12/1/2001	
CD15	SNCR A	SNCR A	Selective Catalytic Reduction	9/1/2010	No		
CD16	SNCR B	SNCR B	Selective Catalytic Reduction	9/1/2010	No		

BOP200001

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
CD17	SNCR C	SNCR C	Selective Catalytic Reduction	9/1/2010	No		

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD2 (Electrostatic Precipitator)
Print Date: 8/8/2019

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Unit Type:	<input type="text" value="Plate"/>
Description:	<input type="text" value="ESP A"/>
Number of Stages:	<input type="text" value="1"/>
Method of Operation:	<input type="text"/>
Method of Cleaning:	<input type="text" value="Rapping"/>
Description:	<input type="text"/>
Capacity (acfm):	<input type="text" value="95,000 - 105,000"/>
Maximum Gas Velocity (ft/sec):	<input type="text" value="2.93"/>
Type of Rectifier:	<input type="text" value="Solid State"/>
Maximum Inlet Gas Stream Moisture (%):	<input type="text" value="21"/>
Maximum Inlet Gas Stream Temperature (deg F):	<input type="text" value="350"/>
Number of Plates:	<input type="text" value="120"/>
Number of Fields:	<input type="text" value="5"/>
Aspect Ratio:	<input type="text"/>
Plate Surface Area (ft2):	<input type="text" value="465.7"/>
Spacing Between Plates (in):	<input type="text" value="12"/>
Cross Sectional Area of Precipitator (ft2):	<input type="text" value="597"/>
Treatment Time (sec.):	<input type="text" value="20.5"/>
Maximum Corona Power (Volt):	<input type="text"/>
Minimum Apparent Migration Velocity (ft/min):	<input type="text"/>
Maximum Particle Resistivity (ohm-cm):	<input type="text"/>

Average Particle Size (Micrometers):

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Belco"/>
Model:	<input type="text" value="U6-1403-65"/>
Scrubber Type:	<input type="text" value="Dry Scrubber"/>
Description:	<input type="text" value="ScrubberA"/>
Is the Scrubber used for Particulate Control?	<input type="text" value="No"/>
Is the Scrubber used for Gas Control?	<input type="text" value="Acid Neutralization"/>
Is the Scrubber Equipped with a Mist Eliminator?	<input type="text" value="No"/>
Minimum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Maximum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Method of Monitoring Pump Discharge Pressure:	<input type="text"/>
Minimum Pump Current (amps):	<input type="text"/>
Maximum Pump Current (amps):	<input type="text"/>
Method of Monitoring Pump Current:	<input type="text"/>
Minimum Scrubber Medium Inlet Pressure (in. H2O):	<input type="text"/>
Minimum Operating Liquid Flow Rate (gpm):	<input type="text" value="5"/>
Maximum Operating Liquid Flow Rate (gpm):	<input type="text" value="20"/>
Method of Monitoring Liquid Flow Rate:	<input type="text" value="DCS"/>
Minimum Operating Gas Flow Rate (acfm):	<input type="text" value="40,000 scfm"/>
Maximum Operating Gas Flow Rate (acfm):	<input type="text" value="60,000 scfm"/>
Method of Monitoring Gas Flow Rate:	<input type="text"/>

Minimum Operating Pressure Drop (in. H2O):

Maximum Operating Pressure Drop (in. H2O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Belco"/>
Model:	<input type="text" value="U6-1403-65"/>
Scrubber Type:	<input type="text" value="Dry Scrubber"/>
Description:	<input type="text" value="Scrubber B"/>
Is the Scrubber used for Particulate Control?	<input type="text" value="No"/>
Is the Scrubber used for Gas Control?	<input type="text" value="Acid Neutralization"/>
Is the Scrubber Equipped with a Mist Eliminator?	<input type="text" value="No"/>
Minimum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Maximum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Method of Monitoring Pump Discharge Pressure:	<input type="text"/>
Minimum Pump Current (amps):	<input type="text"/>
Maximum Pump Current (amps):	<input type="text"/>
Method of Monitoring Pump Current:	<input type="text"/>
Minimum Scrubber Medium Inlet Pressure (in. H2O):	<input type="text"/>
Minimum Operating Liquid Flow Rate (gpm):	<input type="text" value="5"/>
Maximum Operating Liquid Flow Rate (gpm):	<input type="text" value="20"/>
Method of Monitoring Liquid Flow Rate:	<input type="text" value="DCS"/>
Minimum Operating Gas Flow Rate (acfm):	<input type="text" value="40,000 scfm"/>
Maximum Operating Gas Flow Rate (acfm):	<input type="text" value="60,000 scfm"/>
Method of Monitoring Gas Flow Rate:	<input type="text"/>

Minimum Operating Pressure Drop (in. H2O):

Maximum Operating Pressure Drop (in. H2O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Unit Type:	<input type="text" value="Plate"/>
Description:	<input type="text" value="ESP B"/>
Number of Stages:	<input type="text" value="1"/>
Method of Operation:	<input type="text"/>
Method of Cleaning:	<input type="text" value="Rapping"/>
Description:	<input type="text"/>
Capacity (acfm):	<input type="text" value="95,000 - 105,000"/>
Maximum Gas Velocity (ft/sec):	<input type="text" value="2.93"/>
Type of Rectifier:	<input type="text" value="Solid State"/>
Maximum Inlet Gas Stream Moisture (%):	<input type="text" value="21"/>
Maximum Inlet Gas Stream Temperature (deg F):	<input type="text" value="350"/>
Number of Plates:	<input type="text" value="120"/>
Number of Fields:	<input type="text" value="5"/>
Aspect Ratio:	<input type="text"/>
Plate Surface Area (ft2):	<input type="text" value="465.7"/>
Spacing Between Plates (in):	<input type="text" value="12"/>
Cross Sectional Area of Precipitator (ft2):	<input type="text" value="597"/>
Treatment Time (sec.):	<input type="text" value="20.5"/>
Maximum Corona Power (Volt):	<input type="text"/>
Minimum Apparent Migration Velocity (ft/min):	<input type="text"/>
Maximum Particle Resistivity (ohm-cm):	<input type="text"/>

Average Particle Size
(Micrometers):

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

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Belco"/>
Model:	<input type="text" value="U6-1403-65"/>
Scrubber Type:	<input type="text" value="Dry Scrubber"/>
Description:	<input type="text" value="Scrubber C"/>
Is the Scrubber used for Particulate Control?	<input type="text" value="No"/>
Is the Scrubber used for Gas Control?	<input type="text" value="Acid Neutralization"/>
Is the Scrubber Equipped with a Mist Eliminator?	<input type="text" value="No"/>
Minimum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Maximum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Method of Monitoring Pump Discharge Pressure:	<input type="text"/>
Minimum Pump Current (amps):	<input type="text"/>
Maximum Pump Current (amps):	<input type="text"/>
Method of Monitoring Pump Current:	<input type="text"/>
Minimum Scrubber Medium Inlet Pressure (in. H2O):	<input type="text"/>
Minimum Operating Liquid Flow Rate (gpm):	<input type="text" value="5"/>
Maximum Operating Liquid Flow Rate (gpm):	<input type="text" value="20"/>
Method of Monitoring Liquid Flow Rate:	<input type="text" value="DCS"/>
Minimum Operating Gas Flow Rate (acfm):	<input type="text" value="40,000 scfm"/>
Maximum Operating Gas Flow Rate (acfm):	<input type="text" value="60,000 scfm"/>
Method of Monitoring Gas Flow Rate:	<input type="text"/>

Minimum Operating Pressure Drop (in. H2O):

Maximum Operating Pressure Drop (in. H2O):

Method of Monitoring Pressure Drop:

Relative Direction of the Gas-Liquid Flow:

Number of Plates:

Type of Plates:

Spacing Between Plates (in.):

Maximum Inlet Gas Temperature (deg F):

Maximum Outlet Gas Temperature (deg F):

Inlet Particle Grain Loading (gr/dscf):

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Unit Type:	<input type="text" value="Plate"/>
Description:	<input type="text" value="ESP C"/>
Number of Stages:	<input type="text" value="1"/>
Method of Operation:	<input type="text"/>
Method of Cleaning:	<input type="text" value="Rapping"/>
Description:	<input type="text"/>
Capacity (acfm):	<input type="text" value="95,000 - 105,000"/>
Maximum Gas Velocity (ft/sec):	<input type="text" value="2.93"/>
Type of Rectifier:	<input type="text" value="Solid State"/>
Maximum Inlet Gas Stream Moisture (%):	<input type="text" value="21"/>
Maximum Inlet Gas Stream Temperature (deg F):	<input type="text" value="350"/>
Number of Plates:	<input type="text" value="120"/>
Number of Fields:	<input type="text" value="5"/>
Aspect Ratio:	<input type="text"/>
Plate Surface Area (ft2):	<input type="text" value="465.7"/>
Spacing Between Plates (in):	<input type="text" value="12"/>
Cross Sectional Area of Precipitator (ft2):	<input type="text" value="597"/>
Treatment Time (sec.):	<input type="text" value="20.5"/>
Maximum Corona Power (Volt):	<input type="text"/>
Minimum Apparent Migration Velocity (ft/min):	<input type="text"/>
Maximum Particle Resistivity (ohm-cm):	<input type="text"/>

Average Particle Size (Micrometers):

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text" value="36"/>
Size of Bags (ft2):	<input type="text" value="6.98"/>
Total Bag Area (ft2):	<input type="text" value="251"/>
Bag Fabric:	<input type="text" value="Cotton"/>
Fabric Weight (oz/ft):	<input type="text" value="9"/>
Fabric Weave:	<input type="text" value="Sateen"/>
Fabric Finish:	<input type="text" value="Greige"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text" value="970"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="3.9"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="3.9"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="8"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Minimum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="970"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>

Method for Determining When Bag Replacement is Required:

Method for Determining When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted On-Line?

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 a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text" value="36"/>
Size of Bags (ft2):	<input type="text" value="6.98"/>
Total Bag Area (ft2):	<input type="text" value="251"/>
Bag Fabric:	<input type="text" value="Cotton"/>
Fabric Weight (oz/ft):	<input type="text" value="9"/>
Fabric Weave:	<input type="text" value="Sateen"/>
Fabric Finish:	<input type="text" value="Greige"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text" value="970"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="3.9"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="3.9"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="8"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Minimum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="970"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>

Method for Determining When Bag Replacement is Required:

Method for Determining When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted On-Line?

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 a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="58-BF-025"/>
Number of Bags:	<input type="text" value="25"/>
Size of Bags (ft2):	<input type="text" value="7.88"/>
Total Bag Area (ft2):	<input type="text" value="197"/>
Bag Fabric:	<input type="text" value="Polyester"/>
Fabric Weight (oz/ft):	<input type="text" value="16"/>
Fabric Weave:	<input type="text" value="Needle Punched Scrim Supported"/>
Fabric Finish:	<input type="text" value="Plain"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="4.2"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="0"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="5"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="AMB"/>
Minimum Inlet Temperature (deg F):	<input type="text"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="820"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>

Method for Determining When Bag Replacement is Required:

Method for Determining When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted On-Line?

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 a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Control Device Design Efficiency Table

Pollutant Category	Design Efficiency (%)
PM-10	99.9
TSP	99.9
VOC	
NOx	
SO2	
CO	
Pb	
HAPs (Total)	
Other (Total)	
Individual HAPs/Other (speciate below)	

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text" value="24"/>
Size of Bags (ft2):	<input type="text" value="4.22"/>
Total Bag Area (ft2):	<input type="text" value="101"/>
Bag Fabric:	<input type="text" value="Cotton"/>
Fabric Weight (oz/ft):	<input type="text" value="9"/>
Fabric Weave:	<input type="text" value="Sateen"/>
Fabric Finish:	<input type="text" value="Blue Texture"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="4.9"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="0.8"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="3.5"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Minimum Inlet Temperature (deg F):	<input type="text" value="Ambient"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="500"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>

Method for Determining When Bag Replacement is Required:

Method for Determining When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted On-Line?

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 a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	
Manufacturer:	Norit Americas
Model:	
Adsorber Type:	Carbon Injection
Description:	Carbon Injection A
Maximum Gas Flow Rate to Adsorber (acfm):	NA
Maximum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Moisture Content of Vapor Stream to Adsorber (%):	NA
Type of Adsorbant:	Powdered Activated Carbon
Bed Height:	NA
Bed Length:	NA
Bed Width:	NA
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	NA
Maximum Pressure Drop Across Adsorber (In H2O):	NA
Total Weight of Adsorbant (lbs):	20 lbs/hr
Total Weight of Adsorbant When Saturated (lbs):	NA
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Set-up Type:	NA

Method of Determining Breakthrough:

Continuous Emissions Monitor (CEM)

Replacement By Weight

Periodic Testing

Sampling Frequency

Sampling Device

Other

Description:

Minimum Concentration at Breakthrough (ppmvd):

Handling Method of Saturated Adsorbant:

Method of Regeneration:

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	
Manufacturer:	Norit Americas
Model:	
Adsorber Type:	Carbon Injection
Description:	Carbon Injection B
Maximum Gas Flow Rate to Adsorber (acfm):	NA
Maximum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Moisture Content of Vapor Stream to Adsorber (%):	NA
Type of Adsorbant:	Powdered Activated Carbon
Bed Height:	NA
Bed Length:	NA
Bed Width:	NA
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	NA
Maximum Pressure Drop Across Adsorber (In H2O):	NA
Total Weight of Adsorbant (lbs):	NA
Total Weight of Adsorbant When Saturated (lbs):	NA
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Set-up Type:	NA

Method of Determining Breakthrough:

Continuous Emissions Monitor (CEM)

Replacement By Weight

Periodic Testing

Sampling Frequency

Sampling Device

Other

Description:

Minimum Concentration at Breakthrough (ppmvd):

Handling Method of Saturated Adsorbant:

Method of Regeneration:

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	
Manufacturer:	Norit Americas
Model:	
Adsorber Type:	Carbon Injection
Description:	Carbon Injection C
Maximum Gas Flow Rate to Adsorber (acfm):	NA
Maximum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Temperature of Vapor Stream to Adsorber (deg F):	NA
Minimum Moisture Content of Vapor Stream to Adsorber (%):	NA
Type of Adsorbant:	Powdered Activated Carbon
Bed Height:	NA
Bed Length:	NA
Bed Width:	NA
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	NA
Maximum Pressure Drop Across Adsorber (In H2O):	NA
Total Weight of Adsorbant (lbs):	na
Total Weight of Adsorbant When Saturated (lbs):	NA
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Set-up Type:	NA

Method of Determining Breakthrough:

Continuous Emissions Monitor (CEM)

Replacement By Weight

Periodic Testing

Sampling Frequency

Sampling Device

Other

Description:

Minimum Concentration at Breakthrough (ppmvd):

Handling Method of Saturated Adsorbant:

Method of Regeneration:

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

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

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

Comments:

Make:	Riga-Flo
Manufacturer:	Farr
Model:	
Number of Cartridges:	2
Size of Cartridges (ft2):	12
Total Cartridge Area (ft2):	12
Maximum Design Temperature Capability (deg F):	ambient
Maximum Design Air Flow Rate (acfm):	4000
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Maximum Inlet Temperature (deg F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	4000
Method for Determining When Cartridge Replacement is Required:	pressure drop
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	no
Have you attached data from recent performance testing?	no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

no

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

yes

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD15 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

Make:	
Manufacturer:	Fuel Tech
Model:	MM-LF-2PR
Minimum Temperature at Reagent Injection Point (°F):	1,600.0
Maximum Temperature at Reagent Injection Point (°F):	1,800.0
Type of Reagent:	Urea
Description:	
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	15
Minimum Concentration of Reagent in Solution (% Volume):	5.00
Maximum NOx to Reagent Mole Ratio:	2.00
Number of Reagent Injectors:	12
Location of Reagent Injectors:	Two levels of six injectors at elevations TBD
Reagent Injection Method:	Atomizing Air
Maximum Anticipated Ammonia Slip (ppm):	20.00
Description of Feedback System which Controls the Amount of Reagent Charged to the Control Apparatus:	Per description provided in permit application.
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	CEM

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Yes No

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

Yes No

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD15 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD16 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

Make:	
Manufacturer:	Fuel Tech
Model:	MM-LF-2PR
Minimum Temperature at Reagent Injection Point (°F):	1,600.0
Maximum Temperature at Reagent Injection Point (°F):	1,800.0
Type of Reagent:	Urea
Description:	
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	15
Minimum Concentration of Reagent in Solution (% Volume):	5.00
Maximum NOx to Reagent Mole Ratio:	2.00
Number of Reagent Injectors:	12
Location of Reagent Injectors:	Two levels of six injectors at elevations TBD
Reagent Injection Method:	Atomizing Air
Maximum Anticipated Ammonia Slip (ppm):	20.00
Description of Feedback System which Controls the Amount of Reagent Charged to the Control Apparatus:	Per description provided in permit application.
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	CEM

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Yes No

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

Yes No

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD16 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD17 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

Make:	
Manufacturer:	Fuel Tech
Model:	MM-LF-2PR
Minimum Temperature at Reagent Injection Point (°F):	1,600.0
Maximum Temperature at Reagent Injection Point (°F):	1,800.0
Type of Reagent:	Urea
Description:	
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	15
Minimum Concentration of Reagent in Solution (% Volume):	5.00
Maximum NOx to Reagent Mole Ratio:	2.00
Number of Reagent Injectors:	12
Location of Reagent Injectors:	Two levels of six injectors at elevations TBD
Reagent Injection Method:	Atomizing Air
Maximum Anticipated Ammonia Slip (ppm):	20.00
Description of Feedback System which Controls the Amount of Reagent Charged to the Control Apparatus:	Per description provided in permit application.
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	CEM

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Yes No

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

Yes No

Comments:

51614 CAMDEN CNTY ENERGY RECOVERY ASSOC LP BOP190001 CD17 (Selective Non-Catalytic Reduction)
Print Date: 8/8/2019

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	Stack 1	MSW A	Round	72	365	158	300.0	275.0	350.0	100,000.0	85,000.0	105,000.0	Up	
PT2	Stack 2	MSW B	Round	72	365	158	300.0	275.0	350.0	100,000.0	85,000.0	105,000.0	Up	
PT3	Stack 3	MSW C	Round	72	365	158	300.0	275.0	350.0	100,000.0	85,000.0	105,000.0	Up	
PT5	Stack 5	Lime A	Round	8	75	158	70.0			750.0	700.0	800.0	Horizontal	
PT6	Stack 6	Lime B	Round	8	75	158	7,070.0			750.0	700.0	800.0	Horizontal	
PT7	Stack 7	Carbon Silio	Round	8	60	158	70.0			500.0	450.0	550.0	Down	
PT8	Stack 8	Bag Breaker	Round	12	7	158	70.0			500.0	450.0	550.0	Down	
PT9	Vent Fans	8 Fans Ventilate the boiler house info is per fan	Round	75	227	158	70.0			32,000.0	32,000.0	32,000.0	Horizontal	
PT10	Ash Doorways	2 Doorways in the ash hous info is per door	Square	196	0	158	70.0				0.0	18,400.0	Horizontal	
PT11	Fly Ash Vent	Fly Ash Conditioning System	Square	36	45	158	70.0			4,000.0	4,000.0	4,000.0	Horizontal	
PT12	Generator	Generator	Round										Up	

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

U 5 BN-201A 3500 ft3 Lime Storage Silo A

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	BN-201A	Storage of Lime	Normal - Steady State	E5	CD7 (P)	PT5	3-99-999-99	8,760.0	8,760.0		700.0	800.0	0.0	100.0

U 6 BN-201B 3500 ft3 Lime Storage Silo B

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	BN-201B	Storage of Lime	Normal - Steady State	E6	CD8 (P)	PT6	3-99-999-99	8,760.0	8,760.0		700.0	800.0	0.0	100.0

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

U 7 Carbon Silo Activated Carbon Storage

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Carbon Silo	Storage of activated carbon	Normal - Steady State	E7	CD9 (P)	PT7	4-03-011-97	8,760.0	8,760.0		450.0	550.0	0.0	100.0

U 8 TK-105 Lime Bag Breaker

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	TK-105	Preparation of lime slurry for wastewater treatment	Normal - Steady State	E8	CD10 (P)	PT8	3-12-999-99	8,760.0	8,760.0		450.0	550.0	0.0	100.0

U 9 Ash Handling Ash Conveying and Fly Ash Conditioning System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Ash Conveyor	Boiler house exhaust fans and ash house doorways	Normal - Steady State	E9		PT10 PT9	4-03-011-97	8,760.0	8,760.0		32,000.0	32,000.0	0.0	100.0

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

U 9 Ash Handling Ash Conveying and Fly Ash Conditioning System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Fly Ash Cond	Fly Ash Conditioning System	Normal - Steady State	E10	CD14 (P)	PT11		8,760.0	8,760.0					
OS3	VF204A	Ash and Metal Heavy duty vibrating feeder conveyor	Normal - Steady State	E12		PT10		8,760.0	8,760.0					
OS4	DM205A	Axial Pole permanent magnet-new	Normal - Steady State	E13		PT10		8,760.0	8,760.0					
OS5	DM205B	Radial Pole permanent drum magnet	Normal - Steady State	E14		PT10		8,760.0	8,760.0					
OS6	CR206A	Heavy duty troughing belt	Normal - Steady State	E15		PT10		8,760.0	8,760.0					
OS7	VF207A	Heavy Duty Vibrating feeder conveyor	Normal - Steady State	E16		PT10		8,760.0	8,760.0					
OS8	ECS208A	Eddy Current Separator	Normal - Steady State	E17		PT10		8,760.0	8,760.0					
OS9	CR206B	ASH and METAL hEAVY DUTY TROUHING BELT	Normal - Steady State	E18		PT10		8,760.0	8,760.0					
OS10	vf209	Heavy Duty Vibrating Feeder	Normal - Steady State	E19		PT10		8,760.0	8,760.0					

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR1 NSPS A

Members:

Type	ID	OS	Step
E	E 1		
E	E 10		
E	E 2		
E	E 3		
E	E 9		

Formal Reason(s) for Group/Cap:

Other

Other (explain): subj to NSPS A

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

Operating Circumstances: