



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF THE COMMISSIONER

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SHAWN M. LATOURETTE

Acting Commissioner

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP180002

Program Interest Number: 61053

Mailing Address	Plant Location
DAVID WEINSTEIN OFFICER HOPEWELL CAMPUS OWNER LLC 311 PENNINGTON ROCKY HILL RD Hopewell Twp, NJ 08534	HOPEWELL CAMPUS OWNER, LLC 311 Pennington Rocky Hill Rd Hopewell Twp Mercer County

Initial Operating Permit Approval Date:

June 28, 2004

Operating Permit Approval Date:

Proposed

Operating Permit Expiration Date:

June 27, 2024

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Ritugandha Chaugule at (609) 633-8245.

Approved by:

Arthur Lehberger

Enclosure

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

Facility Name: HOPEWELL CAMPUS OWNER, LLC
Program Interest Number: 61053
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Section A

Facility Name: HOPEWELL CAMPUS OWNER, LLC

Program Interest Number: 61053

Permit Activity Number: BOP180002

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs* (total)	CO _{2e} ²
Emission Units Summary	13.95	57.01	73.18	3.85	13.76	19.79	19.79	NA	4.03	
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	13.95	57.01	73.18	3.85	13.76	19.79	19.79	NA	4.03	105,000

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	3.3	1	1	0.5	0.5	0.5	0.5	NA	NA
Non-Source Fugitive Emissions ³	2.5	0.03	0.03	0.03	0.03	0.03	0.03	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 Total CO_{2e} emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

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

Section A

Facility Name: HOPEWELL CAMPUS OWNER, LLC

Program Interest Number: 61053

Permit Activity Number: BOP180002

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Formaldehyde	3.94
Acrolein	0.09

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

Other Air Contaminant	TPY
NA	

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

Section B

Facility Name: HOPEWELL CAMPUS OWNER, LLC
Program Interest Number: 61053
Permit Activity Number: BOP180002

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: HOPEWELL CAMPUS OWNER, LLC

Program Interest Number: 61053

Permit Activity Number: BOP180002

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>
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Section D

Facility Name: HOPEWELL CAMPUS OWNER, LLC

Program Interest Number: 61053

Permit Activity Number: BOP180002

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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Insignificant Sources (IS):

IS NJID	IS Description	
IS2	Small Combustion Equipment (< 1 MMBtu/hr max. heat input)	6
IS4	Unheated Open-top Small Parts Cleaners (each unit capacity <= 100 gallons and top opening <= 6 sq.ft.)	7
IS5	Small Drying Operations (< 1 MMBtu/hr/each, <= 50 lbs/hr raw materials)	12
IS6	Cooling Tower Operations (process <= 50 lb/hr, excluding water)	13
IS9	Wastewater Equipment (Wastewater concentration < 100 ppb by wt. any TXS, < 3500 ppb by wt. of total VOC)	14
IS11	Steam Venting Operations (<= 50 lb/hr raw material process rate)	15
IS12	Four Light Distillate Fuel Oil Storage Tanks (<= 25,000 gallons each, vapor pressure < 0.02 psia)	16

Emission Units (U):

U NJID	U Designation	U Description	
U1	Boilers	Two Steam Boilers (3.35 MMBtu/hr) Firing Natural Gas	18
U2	Engines	Emergency Generators	21
U4	CUC	Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil	45
U5	B27-Boilers	Building 27, Two Boilers	75
U6	New EGs/DFPs	Emergency Generators and Diesel Fire Pumps	80
U400	Temp Boiler	Portable Temporary Natural Gas Fired Boiler	98
U500	CHP-006-5	Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired	107

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

Permit Being Modified

Permit Class: BOP **Number:** 180003

Description of Modifications: Five Year Renewal Operating Permit including the following changes:

- U5 6 MMBtu/hr Boiler #1 B27 (E44) taken out of service and removed from the Title V Operating Permit. U5 PTE emissions decreased for NOx from 2.4 to 1.38 tons/yr and for CO from 4.86 to 2.77 tons/yr.
- Emission point parameters for PT500 and PT501 were corrected; Stack diameter 23.75 in; Stack temperature as 765 deg F; Exhaust flow 15000 ACFM; Distance to the property line 430 feet; and Discharge direction is up.
- Updated compliance plan state requirements (subchapter 3,4,9,16,19,22) and Federal requirements (CFR 60 subpart A, CFR subpart A, Dc, IIII, ZZZZ, JJJJJ) for units U2, U4, U5, U6 and U500.
- Included PM-2.5 PTE emissions for U1, U2, U4, U5, U6, U400 and U500 consistent with N.J.A.C. 7:27-22.; based on PM10 PTE emissions.
- Corrected U2 tons per year emission limits based on current hourly emission rates and hours per year limit; Reduced SO2 tons per year emission limits for U4 based on percent sulfur in fuel limit; and reduced U6 CO, NOx and SO2 tons per year emission limit based on manufacturer emission factors.

BOP180002

**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.

BOP180002

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

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

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

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

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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.</p> <p>[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.</p> <p>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>	<p>Other: Comply with 40 CFR 68. [40 CFR 68].</p>	<p>Other: Comply with 40 CFR 68. [40 CFR 68].</p>	<p>Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]</p>

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**New Jersey Department of Environmental Protection
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: IS2 Small Combustion Equipment (< 1 MMBtu/hr max. heat input)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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

Subject Item: IS4 Unheated Open-top Small Parts Cleaners (each unit capacity <= 100 gallons and top opening <= 6 sq.ft.)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The following provisions (Ref. #2 through 7) shall apply to a cold cleaning machine, that uses two gallons or more of solvents containing greater than five percent VOC content by weight for the cleaning of metal parts, and to any heated cleaning machine. [N.J.A.C. 7:27-16.6(j)]	None.	None.	None.
2	No person shall add solvent to a cold cleaning machine or a heated cleaning machine, or cause, suffer, allow, or permit the machine to be operated, unless the following requirements are met: i. If the machine is an immersion cold cleaning machine or heated cleaning machine, it shall have: (1) A freeboard ratio of 0.75 or greater; and (2) A visible fill line and a high level liquid mark; ii. The machine shall have a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable provisions of the operating requirements in (j)2 below; and iii. The machine shall be equipped with: (1) A tightly fitting working-mode cover that completely covers the machine's opening and that shall be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six inches shall constitute an acceptable cover; and (2) If the machine is a heated cleaning machine, a thermostat. [N.J.A.C. 7:27-16.6(j)1]	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>A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures:</p> <ul style="list-style-type: none"> i. The solvent level in the machine shall not exceed the fill line when there are no parts in the machine for cleaning and shall not exceed the high level liquid mark during cleaning operations; ii. Flushing of parts with a solvent spray, using a spray head attached to a flexible hose or other flushing device, shall be performed only within the freeboard area of the machine. The solvent spray shall be a continuous fluid stream, not an atomized or shower spray, and shall be under a pressure that does not exceed ten pounds per square inch gauge; iii. Parts being cleaned shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that solvent drains directly back into the machine. [N.J.A.C. 7:27-16.6(j)2i, ii] and. [N.J.A.C. 7:27-16.6(j)2iii] 	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	<p>A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures:</p> <ul style="list-style-type: none"> iv. When the machine's cover is open, the machine shall not be exposed to drafts greater than 40 meters per minute (132 feet per minute), as measured between one and two meters (between 3.3 and 6.6 feet) upwind and at the same elevation as the tank lip; v. Sponges, fabric, leather, paper products and other absorbent materials shall not be cleaned in the machine; vi. When a pump-agitated solvent bath is used, the agitator shall be operated to produce a rolling motion of the solvent with no observable splashing of solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used; vii. Spills during solvent transfer and use of the machine shall be cleaned up immediately, and the wipe rags or other sorbent material used shall be immediately stored in covered containers for disposal or recycling; viii. Waste solvent shall be collected and stored in a closed container. The closed container may contain a device that allows pressure relief, provided that it does not allow liquid solvent to drain from the container. [N.J.A.C. 7:27-16.6(j)2iv through vii] and. [N.J.A.C. 7:27-16.6(j)2] 	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures: ix. Work area fans shall be located and positioned so that they do not blow across the opening of the degreaser unit; and x. If the machine is a heated cleaning machine, the solvent shall be maintained at a temperature that is below its boiling point. [N.J.A.C. 7:27-16.6(j)2ix] and [N.J.A.C. 7:27-16.6(j)2x]	None.	None.	None.
6	A person shall not use, in a cold cleaning machine or a heated cleaning machine, any solvent that has a vapor pressure of one millimeter of mercury or greater, measured at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)3]	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>A person who owns or operates a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department:</p> <ul style="list-style-type: none"> i. The name and address of the person selling the solvent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the seller's name and address on it, may be used to satisfy this requirement; ii. A list of VOC(s) and their concentration information in the solvent; iii. Information about each VOC listed pursuant to ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement; iv. The solvents product number assigned by the manufacturer; and v. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)4i through iv] and. [N.J.A.C. 7:27-16.6(j)4v] 	None.	Other: Maintain readily available records for two years[N.J.A.C. 7:27-16.6(j)4].	None.
8	Solvent must contain less than 5% by weight of any combination of methylene chloride, perchloroethylene, 1,1,1-trichloroethane, carbon tetrachloride and chloroform. [40 CFR 63.Subpart(T)]	Other: At the time of filling, confirm by MSDS or bill of lading[40 CFR 63.Subpart(T)].	None.	None.

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

Subject Item: IS5 Small Drying Operations (< 1 MMBtu/hr/each ,<= 50 lbs/hr raw materials)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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

Subject Item: IS6 Cooling Tower Operations (process <= 50 lb/hr, excluding water)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor. Opacity greater than 20%, exclusive of visible condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7.27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Water treatment chemicals containing hexavalent chromium shall not be added to the cooling tower circulating water. [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**

Subject Item: IS9 Wastewater Equipment (Wastewater concentration < 100 ppb by wt. any TXS, < 3500 ppb by wt. of total VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum concentration in the water of TXS shall be less than 100 parts per billion by weight and the total concentration in the water of VOC shall be less than 3,500 parts per billion by weight. [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: IS11 Steam Venting Operations (<= 50 lb/hr raw material process rate)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor. Opacity greater than 20%, exclusive of visible condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7.27-6.2(d)] 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**

Subject Item: IS12 Four Light Distillate Fuel Oil Storage Tanks (<= 25,000 gallons each, vapor pressure < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey, after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
3	Operating Temperature <= 350 degrees F The operating temperature of the tank shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	Vapor Pressure < 0.02 psia. 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.
5	The tank or vessel shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank or vessel 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.
7	The tank or vessel shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank or vessel, 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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The tank's or vessel's potential to emit each TXS and each HAP does not exceed the de minimus reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	HAPs (Total) < 1 % by weight The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, is less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	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 or vessel meets the above applicable requirements and (3) attests that the tank or vessel 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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 Two Steam Boilers (3.35 MMBtu/hr) Firing Natural Gas

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 3.43 tons/yr. Annual emission limit (total for 2 boilers) based on 8,760 hours per year operation of each boiler. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 1.06 tons/yr. Annual emission limit (total for 2 boilers) based on 8,760 hours per year operation of each boiler. [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: U1 Two Steam Boilers (3.35 MMBtu/hr) Firing Natural Gas

Operating Scenario: OS1 Bldg 2. Boiler No. 1, natural gas firing, normal operation (3.35 MMBtu/hr) PT1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.01 lb/hr. Particulate emission limit based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.35 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.39 lb/hr based on manufacturer emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.12 lb/hr based on manufacturer emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission for VOC, SO2, TSP, PM-10 and PM2.5 are below reporting threshold of 0.05 lb/hr N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 29.3 MMft ³ for any consecutive 12 months based on 8,760 hours per year. [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: U1 Two Steam Boilers (3.35 MMBtu/hr) Firing Natural Gas

Operating Scenario: OS2 Bldg 2. Boiler No. 2, natural gas firing, normal operation (3.35 MMBtu/hr) PT1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.01 lb/hr. Particulate emission limit based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.35 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.39 lb/hr based on manufacturer emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.12 lb/hr based on manufacturer emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates for VOC, SO2, TSP, PM-10 and PM2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 29.3 MMft ³ for any consecutive 12 months based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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 Facility Specific Requirements

Emission Unit: U2 Emergency Generators

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 63 Subpart A 40 CFR Part 63 Subpart ZZZZ [None]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>Each emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility. These 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 when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1] 	<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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. 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 monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: <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 shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p>	<p>None.</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>These emergency generators 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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator's hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi) The name and contact information of the operator of the emergency generator at the location.</p> <p>2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of no less than 5 years after the record was made, and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: Upon occurrence of event the Permittee of the emergency generator must submit the Recordkeeping Requirements to the Regional Enforcement Office within 30 days of the occurrence of the emergency event. [N.J.A.C. 7:27-22.16(o)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Hours of Operation \leq 100 hr/yr for testing and maintenance of each emergency generator. 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 emergency generator : For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
8	Emergency Generator fuel limited to #2 Fuel Oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) \leq 0.71 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NO _x (Total) \leq 20.33 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO \leq 3.75 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP \leq 0.72 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [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
13	PM-10 (Total) <= 0.72 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.72 tons/yr. Annual emission limit based on the combined permitted hours per year of operation for each emergency generator in this emission unit, U2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2d, item 4a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement, per 40 CFR 63.6625(i). The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
16	The owner or operator of an emergency or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2d, item 4b and 4c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6603(a)]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	At all times the owner or operator must operate and maintain a RICE including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
18	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
19	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	<p>The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 63.6640(f)(2i)]</p>	<p>Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6655(f)(2)]</p>	<p>None.</p>
21	<p>The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency or black start CI RICE constructed or reconstructed before June 12, 2006 and located at an area source of HAP emissions except for a residential, commercial, or institutional emergency stationary RICE. [40 CFR 63.6665]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS1 G2B#1 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.4 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.
2	Maximum Gross Heat Input <= 12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.08 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.4 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 10.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.2 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS2 G2B#2 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.4 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.
2	Maximum Gross Heat Input <= 12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.4 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 10.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.2 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS3 G2B#3 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.4 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.
2	Maximum Gross Heat Input <= 12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.4 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 10.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.2 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS4 G2B#4 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.4 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.
2	Maximum Gross Heat Input <= 12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.4 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 10.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.2 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS5 G3B Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.26 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.
2	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.74 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 9.3 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 2 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.65 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS6 G4 Emergency Generator - Light Distillate Fuel Oil Firing (1.7 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.02 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.
2	Maximum Gross Heat Input <= 1.7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.6 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 7.6 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 1.6 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.53 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.53 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.53 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators

Operating Scenario: OS8 G13 Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 1.26 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.
2	Maximum Gross Heat Input \leq 2.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) \leq 0.72 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) \leq 9.1 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO \leq 1.96 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP \leq 0.64 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) \leq 0.64 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) \leq 0.64 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS9 G16 Emergency Generator - Light Distillate Fuel Oil Firing (1.0 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.6 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.
2	Maximum Gross Heat Input <= 1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.35 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 4.4 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 0.95 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.31 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.31 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.31 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS10 Building 3A Emergency Generator - Light Distillate Fuel Oil Firing (2.27 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.36 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.
2	Maximum Gross Heat Input <= 2.27 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.8 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 10.02 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 2.16 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.7 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.7 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.7 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS11 G19 Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.26 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.
2	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.72 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 9.1 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 1.96 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.64 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.64 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.64 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS13 EG-B17/21 Emergency Generator - Light Distillate Fuel Oil Firing (10 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6 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.
2	Maximum Gross Heat Input <= 12 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.59 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 29.53 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 4.24 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.99 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.99 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.99 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS14 EG-CUC1 Emergency Generator - Light Distillate Fuel Oil Firing (14.5 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.9 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.
2	Maximum Gross Heat Input <= 14.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.54 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 41.6 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 5 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.43 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) < 1.43 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.43 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS15 EG-CUC2 Emergency Generator - Light Distillate Fuel Oil Firing (14.5 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.9 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.
2	Maximum Gross Heat Input <= 14.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.54 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 41.6 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 5 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 1.43 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 1.43 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 1.43 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS16 WWTP Emergency Generator - Light Distillate Fuel Oil Firing (<3 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.18 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.
2	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.05 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 13.23 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 2.85 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.93 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.93 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.93 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 Emergency Generators**Operating Scenario:** OS17 Bldg 2 Emergency Generator #1 - Light Distillate Fuel Oil Firing (18.6 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 7.72 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.
2	Maximum Gross Heat Input <= 18.6 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.62 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.76 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 3.24 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.65 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 Emergency Generators

Operating Scenario: OS18 Bldg 2 Emergency Generator #2 - Light Distillate Fuel Oil Firing (18.6 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 7.72 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.
2	Maximum Gross Heat Input <= 18.6 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.62 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 38.76 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 3.24 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2: Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) <= 0.65 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.65 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U4 Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 63 Subpart A 40 CFR Part 60 Subpart Dc 40 CFR Part 63 Subpart JJJJJ [None]	None.	None.	None.
2	STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for PM10 and TSP as specified in the compliance plan for OS2 and OS4. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief . Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: $Lb/MMBTU = ppmvd * MW * F \text{ dry factor} * O2 \text{ correction factor} / 387,000,000$, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - O2 \text{ measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. Other: Retain copy of December 2017 stack test results (TST160002) showing compliance. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]</p>

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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 of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
5	VOC (Total) <= 3.2 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 21 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 31.9 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 3.84 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 10.9 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 10.9 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 10.9 tons/yr. Annual emission limit (total 2 boilers) based on annual fuel limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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Facility Specific Requirements**

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	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. [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. NSPS Subpart A. [40 CFR 60.7(a)(4)]
17	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. NSPS Subpart A. [40 CFR 60.7(b)]	None.
18	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. NSPS Subpart A.[40 CFR 60.7(f)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	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.
20	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.
21	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.
22	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.
23	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
24	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.
25	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.
26	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
27	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.
28	Sulfur Content in Fuel <= 0.5 weight %. This applies to fuel oil firing only. [40 CFR 60.42c(d)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment. [40 CFR 60.44c(h)]	Sulfur Content in Fuel: Recordkeeping by fuel supplier certifications pursuant to 40 CFR Part 60.48c(f) once per bulk fuel shipment. Records of the name of the oil supplier, a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil as specified at 40 CFR 60.41c, and the sulfur content of the oil shall be maintained. [40 CFR 60.48c(e)(11)]	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall submit fuel supplier certifications, and the owner/operator certification that the fuel supplier's certifications submitted represent all of the fuel combusted during the reporting period. [40 CFR 60.48c(e)(11)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	<p>Opacity <= 20 % except for one 6-minute period per hour of not more than 27% opacity. This opacity standard does not apply during periods of startup, shutdown or malfunction.</p> <p>This applies to fuel oil firing only. [40 CFR 60.43c(c)]</p>	<p>Opacity: Monitored by stack emission testing at the approved frequency, based on 6 minute blocks. An initial performance test shall be conducted as required at 40 CFR 60.8 and 40 CFR 60.11 using test Method 9 specified at 40 CFR 60.45c(a)(8). The subsequent performance tests shall be conducted according to the applicable schedule in 40 CFR 60.47c(a)(1) as follows: per (a)(1)(i), if no visible emissions are observed during the most recent test a subsequent Method 9 performance test shall be completed within 12 calendar months from the date that the most recent test was conducted or, per (a)(1)(ii through iv), if visible emissions are observed during the most recent test, the frequency of subsequent testing shall be either 6 calendar months, 3 calendar months, or 45 calendar days depending on the results of the most recent test.</p> <p>Per 40 CFR 60.47c(a)2, if the maximum 6-min opacity is less than 10 percent during the most recent Method 9 test, the subsequent performance tests may be conducted, as an alternative to Method 9, by Method 22 on operating days the boiler fires fuel oil for which an opacity standard is applicable. Per 40 CFR 60.47c(a)3, if the maximum 6-min opacity is less than 10 percent during the most recent Method 9 test, the subsequent performance tests may be conducted, as an alternative to Method 9, by a digital opacity compliance system according to a site-specific monitoring plan approved by the EPA Administrator. [40 CFR 60.47c(a)]</p>	<p>Opacity: Recordkeeping by stack test results at the approved frequency. If applicable, a copy of the site-specific monitoring plan for a digital opacity compliance system approved by the EPA Administrator per 40 CFR 60.47c(a)(3) shall be kept on site. [40 CFR 60.45c(a)]</p>	<p>Submit a report: Upon occurrence of event. The owner or operator shall submit to the Administrator the performance test data from the initial and any subsequent performance tests. [40 CFR 60.48c(b)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	For affected facilities subject to 60.42c(h)(1), (2), or (3), where the owner or operator seeks to demonstrate compliance with SO ₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier as described under 40 CFR 60.48c(f)(1), (2), or (3), as applicable. This applies to fuel oil firing only. [40 CFR 60.44c(h)]	None.	None.	None.
31	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. [40 CFR 60.48c(a)]	None.	Other: Keep a copy of initial notification and make it available to the department. [40 CFR 60.48(c)(a)].	Submit notification: Prior to occurrence of event to EPA region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7. [40 CFR 60.48c(a)]
32	The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). This applies to fuel oil firing only. [40 CFR 60.48c(d)]	None.	Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)].	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)]
33	The owner or operator shall record the amount of each fuel combusted in each boiler during each calendar month. [40 CFR 60.48c(g)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. [40 CFR 60.48(g)(i)]	None.

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Emission Unit: U4 Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

Operating Scenario: OS1 CUC Boiler No. 1 - Natural Gas Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 12.3 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input of the source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
4	CO <= 100 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
5	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	None.	None.	None.
6	VOC (Total) <= 10 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	VOC (Total) <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) <= 0.028 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NOx (Total) <= 1.74 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	CO <= 3.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	CO <= 50 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	SO2 <= 0.51 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 0.89 lb/hr based on AP-42 emission factor. [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
14	PM-10 (Total) \leq 0.89 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-2.5 (Total) \leq 0.89 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Natural Gas Usage \leq 554.4 MMft ³ per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the natural gas usage during each calendar month and during each consecutive 12 month period. Cubic feet for any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
17	Maximum Gross Heat Input \leq 63.3 MMBTU/yr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(a)].	None.

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Emission Unit: U4 Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

Operating Scenario: OS2 CUC Boiler No. 1 - Light Distillate Fuel Oil Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	<p>Monitored by visual determination each week during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation.</p> <p>If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following:</p> <ol style="list-style-type: none"> (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) Required observation data according to N.J.A.C. 7:27B-2.5, if conducted; and (8) Name of person(s) conducting inspection . [N.J.A.C. 7:27-22.16(o)] 	None.
2	Particulate Emissions <= 12.3 lb/hr based on heat input of source. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Maximum allowable sulfur content in No. 2 fuel oil or kerosene shall be no more than 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
5	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
6	NO _x (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	None.	None.	None.
7	VOC (Total) <= 20 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.61 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NO _x (Total) <= 0.094 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NO _x (Total) <= 5.7 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	CO <= 6.1 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO ₂ <= 0.09 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 3.05 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
14	PM-10 (Total) <= 3.05 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results 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 the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	PM-2.5 (Total) <= 3.05 lb/hr. Based on PM-10 emission limit. [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
16	Maximum Gross Heat Input <= 63.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep record showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
17	Fuel Oil Usage <= 623,500 gallons for any 12 consecutive months period. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total fuel oil usage in gallons per consecutive 12-month period shall be calculated by the sum of the gallons consumed during any month added to the sum of the gallons of fuel consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)] and. [40 CFR 60.48c(g)(2)]	None.
18	Minimize the boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, the permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. [40 CFR 63.11201(b)]	None.	None.	None.
19	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11225(c)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	<p>New or reconstructed oil-fired boilers that combust only ultra-low-sulfur distillate oil that contains less than or equal to 0.0015% weight sulfur are not subject to a PM emission limit providing the type of fuel combusted is monitored and recorded on a monthly basis.</p> <p>If the owner or operator intends to burn a new type of fuel other than ultra-low-sulfur distillate oil, the owner or operator must conduct a performance test within 60 days of burning the new fuel type. [40 CFR 63.11210(f)]</p>	<p>Monitored by review of fuel delivery records each month during operation. [40 CFR 63.11210(f)]</p>	<p>Recordkeeping by invoices / bills of lading / certificate of analysis each month during operation showing sulfur content. [40 CFR 63.11210(f)] and [40 CFR 63.11225(c)(2)(iv)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	<p>The permittee shall conduct biennial tune-ups no later than 25 months after the previous tune-up. The tune-ups shall be conducted, as required in Table 2 to 40 CFR Part 63, Subpart JJJJJJ, and in accordance with 40 CFR 63.11223(b) as follows:</p> <p>(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.</p> <p>(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.</p> <p>As per 40 CFR 63.11223(b)(7), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. [40 CFR 63.11214(b)]</p>	<p>Monitored by periodic emission monitoring at the approved frequency biennially. Measure the concentrations in the effluent stream of carbon monoxide (CO) in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency biennially. The permittee shall keep the following records for a period of 5 years following the date of each recorded action as per 40 CFR 63.11225(d) to document conformance with the biennial tune-up:</p> <p>Records identifying each boiler, the date of tune-up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned.</p> <p>Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site:</p> <p>(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.</p> <p>(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.</p> <p>(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.11225(c)(2)]</p>	<p>Submit a report: As per the approved schedule biennially, by March 1 of the applicable year. A compliance certification report shall contain the following information:</p> <p>(1) Company name and address.</p> <p>(2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."</p> <p>(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. [40 CFR 63.11225(b)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014 or within 120 days after startup of new source. [40 CFR 63.11225(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain a copy of the Initial Notification and all supporting documentation for a period of 5 years. [40 CFR 63.11225(c)] and [40 CFR 63.11225(d)]	<p>Submit notification: Once initially by January 20, 2014 or within 120 days after startup of a new source to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJ DEP, per 40 CFR 63.13.</p> <p>The permittee may use instructions and the forms provided on the EPA website https://www.epa.gov/stationary-sources-air-pollution/compliance-industrial-commercial-and-institutional-area-source [40 CFR 63.11225]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	<p>Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information:</p> <p>(1) Company name and address. (2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." [40 CFR 63.11225(b)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]	None.
24	<p>The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJ due to a fuel change that results in the boiler meeting the definition of gas-fired boiler as defined in 40 CFR 63.11237, or taking a permit limit. The notice must be provided within 30 days of the change. [40 CFR 63.11225(g)]</p>	None.	None.	<p>Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify: (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice. (2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	The permittee must comply with the applicable General Provisions according to Table 8 to Subpart JJJJJ to Part 63. [40 CFR 63.11235]	None.	None.	None.

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

Emission Unit: U4 Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

Operating Scenario: OS3 CUC Boiler No. 2 - Natural Gas Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 12.3 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input of the source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 50 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
4	CO <= 100 ppmvd @ 7% O2. [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
5	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	None.	None.	None.
6	VOC (Total) <= 10 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	VOC (Total) <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) <= 0.028 lb/MMBTU (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NOx (Total) <= 1.74 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	CO <= 3.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	CO <= 50 ppmvd @ 7% O2. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	SO2 <= 0.51 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 0.89 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	PM-10 (Total) <= 0.89 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-2.5 (Total) <= 0.89 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Natural Gas Usage <= 554.4 MMft ³ per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the natural gas usage during calendar month and each consecutive 12 month period. Cubic feet for any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
17	Maximum Gross Heat Input <= 63.3 MMBTU/yr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(a)].	None.

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

Emission Unit: U4 Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

Operating Scenario: OS4 CUC Boiler No. 2 - Light Distillate Fuel Oil Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	<p>Monitored by visual determination each week during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation.</p> <p>If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following:</p> <ol style="list-style-type: none"> (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) Required observation data according to N.J.A.C. 7:27B-2.5, if conducted; and (8) Name of person(s) conducting inspection . [N.J.A.C. 7:27-22.16(o)] 	None.
2	Particulate Emissions <= 12.3 lb/hr based on heat input of source. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Maximum allowable sulfur content in No. 2 fuel oil or kerosene shall be no more than 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total) <= 50 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
5	CO <= 100 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-16.8(b)2]	None.	None.	None.
6	NO _x (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	None.	None.	None.
7	VOC (Total) <= 20 ppmvd @ 7% O ₂ . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.61 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	NO _x (Total) <= 0.094 lb/MMBTU. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	NO _x (Total) <= 5.7 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	CO <= 6.1 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	SO ₂ <= 0.09 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 3.05 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
14	PM-10 (Total) <= 3.05 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results 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 the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	PM-2.5 (Total) <= 3.05 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Maximum Gross Heat Input <= 63.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep record showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
17	Fuel Oil Usage <= 623,500 gallons per any consecutive 12 month period. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain records of the #2 fuel oil usage during each calendar month and each consecutive 12 month period. [N.J.A.C. 7:27-22.16(o)]	None.
18	Minimize the boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, the permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. [40 CFR 63.11201(b)]	None.	None.	None.
19	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11225(c)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	<p>New or reconstructed oil-fired boilers that combust only ultra-low-sulfur distillate oil that contains less than or equal to 0.0015% weight sulfur are not subject to a PM emission limit providing the type of fuel combusted is monitored and recorded on a monthly basis.</p> <p>If the owner or operator intends to burn a new type of fuel other than ultra-low-sulfur distillate oil, the owner or operator must conduct a performance test within 60 days of burning the new fuel type. [40 CFR 63.11210(f)]</p>	<p>Monitored by review of fuel delivery records each month during operation. [40 CFR 63.11210(f)]</p>	<p>Recordkeeping by invoices / bills of lading / certificate of analysis each month during operation showing sulfur content. [40 CFR 63.11210(f)] and [40 CFR 63.11225(c)(2)(iv)]</p>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	<p>The permittee shall conduct biennial tune-ups no later than 25 months after the previous tune-up. The tune-ups shall be conducted, as required in Table 2 to 40 CFR Part 63, Subpart JJJJJJ, and in accordance with 40 CFR 63.11223(b) as follows:</p> <p>(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.</p> <p>(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.</p> <p>As per 40 CFR 63.11223(b)(7), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. [40 CFR 63.11214(b)]</p>	<p>Monitored by periodic emission monitoring at the approved frequency biennially. Measure the concentrations in the effluent stream of carbon monoxide (CO) in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency biennially. The permittee shall keep the following records for a period of 5 years following the date of each recorded action as per 40 CFR 63.11225(d) to document conformance with the biennial tune-up:</p> <p>Records identifying each boiler, the date of tune-up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned.</p> <p>Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site:</p> <p>(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.</p> <p>(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.</p> <p>(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.11225(c)(2)]</p>	<p>Submit a report: As per the approved schedule biennially, by March 1 of the applicable year. A compliance certification report shall contain the following information:</p> <p>(1) Company name and address.</p> <p>(2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."</p> <p>(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. [40 CFR 63.11225(b)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014 or within 120 days after startup of new source. [40 CFR 63.11225(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain a copy of the Initial Notification and all supporting documentation for a period of 5 years. [40 CFR 63.11225(c)] and [40 CFR 63.11225(d)]	<p>Submit notification: Once initially by January 20, 2014 or within 120 days after startup of a new source to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJ DEP, per 40 CFR 63.13.</p> <p>The permittee may use instructions and the forms provided on the EPA website https://www.epa.gov/stationary-sources-air-pollution/compliance-industrial-commercial-and-institutional-area-source [40 CFR 63.11225]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	<p>Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information:</p> <p>(1) Company name and address. (2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." [40 CFR 63.11225(b)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]	None.
24	<p>The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJJ due to a fuel change that results in the boiler meeting the definition of gas-fired boiler as defined in 40 CFR 63.11237, or taking a permit limit. The notice must be provided within 30 days of the change. [40 CFR 63.11225(g)]</p>	None.	None.	<p>Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify: (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice. (2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	The permittee must comply with the applicable General Provisions according to Table 8 to Subpart JJJJJ to Part 63. [40 CFR 63.11235]	None.	None.	None.

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

Emission Unit: U5 Building 27, Two Boilers

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	NO _x (Total) <= 1.38 tons/yr. Annual emission limit based on the maximum fuel usage limit and 8760 hours per year of operation for each of the two boilers in this emission unit U5. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 2.77 tons/yr. Annual emission limit based on the maximum fuel usage limit and 8760 hours per year of operation for each of the two boilers in this emission unit U5. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U5 Building 27, Two Boilers**Operating Scenario:** OS1 Bldg 27. Boiler No. 2, natural gas firing, normal operation (4 MMBtu/hr) PT45

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.4 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.
2	NOx (Total) <= 0.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rates of VOC, SO ₂ , TSP, PM-10 and PM _{2.5} are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Natural Gas Usage <= 34.4 MMft ³ for any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Boiler fuel limited to natural gas or LPG firing. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U5 Building 27, Two Boilers**Operating Scenario:** OS2 Bldg 27. Boiler No. 2, LPG firing, normal operation (4 MMBtu/hr) PT45

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.4 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rates of VOC, SO ₂ , TSP, PM-10 and PM _{2.5} are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Other Liquid Fuel Usage <= 373,000 gal/yr of LPG. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Boiler fuel limited to propane or 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**

Emission Unit: U5 Building 27, Two Boilers**Operating Scenario:** OS3 Bldg 27. Boiler No. 3, natural gas firing, normal operation (4 MMBtu/hr) PT46

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.4 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.
2	NOx (Total) <= 0.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rates of VOC, SO ₂ , TSP, PM-10 and PM _{2.5} are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Natural Gas Usage <= 34.4 MMft ³ for any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum Gross Heat Input <= 4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Boiler fuel limited to natural gas or LPG firing. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U5 Building 27, Two Boilers**Operating Scenario:** OS4 Bldg 27. Boiler No. 3, LPG firing, normal operation (4 MMBtu/hr) PT46

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.4 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 0.16 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.32 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rates of VOC, SO ₂ , TSP, PM-10 and PM _{2.5} are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Other Liquid Fuel Usage <= 373,000 gal/yr of LPG. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Boiler fuel limited to propane or 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**

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart III [None]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Each fire pump 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, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or 4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. Applicable to OS2 and OS3. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1] 	<p>Monitored by hour/time monitor continuously.</p> <p>.</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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. 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 monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: <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>	<p>None.</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>Each emergency generator shall be located at the facility and produce electrical power exclusively for use at the facility. These 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 when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. (Applicable for OS1, OS4, OS5, OS6) [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; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</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 and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. 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 monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: <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 shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</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
7	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at 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 after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
8	Generator fuel limited to # 2 fuel oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.02 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NO _x (Total) <= 0.79 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700) and emergency fire pumps (E48,E49). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 0.18 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700) and emergency fire pumps (E48,E49). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.02 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.02 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.02 tons/yr. Annual emission limit based on the permitted hours per year of operation of emergency generators (E47,E50,E600,E700). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	<p>The Emergency Generator may be operated at other locations (within the State of New Jersey) only in the event of an emergency, as defined at N.J.A.C. 7:27-19.1. Applicable for OS1, OS4, OS5, OS6. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. 1. For each time the emergency generator is operated at a location other than the facility for which it is originally permitted in the event of an emergency, the Permittee of the emergency generator shall record the following: i) Document the location (name of facility with address) where the emergency generator is operated; ii) Document the emergency that occurred and describe whether the emergency was due to internal or external loss of primary source of energy at the location; iii) If emergency is due to internal loss at the location, document the damages to the primary source of energy and the amount of time needed for repairs; iv) Document the date(s) of operation and the start up and shut down time on each date; v) Document the total operating time at the location based on the generator’s hour meter and the total amount of fuel and fuel type used for the duration of the emergency; vi)The name and contact information of the operator of the emergency generator at the location. 2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The Permittee of the emergency generator shall have the above records on site within 30 days of the occurrence of the emergency event, maintain the record for a period of no less than 5 years after the record was made, and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: Upon occurrence of event the Permittee of the emergency generator must submit the Recordkeeping Requirements to the Regional Enforcement Office within 30 days of the occurrence of the emergency event. [N.J.A.C. 7:27-22.16(o)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
17	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866 (NSPS Subpart A). [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
18	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP (NSPS Subpart A). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere (NSPS Subpart A). [40 CFR 60.12]	None.	None.	None.
20	The owner or operator shall notify the Administrator of the proposed replacement of components (NSPS Subpart A). [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
21	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19 (NSPS Subpart A). [40 CFR 60.19]	None.	None.	None.
22	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. (NSPS Subpart IIII) [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. If not complying with manufacturer's emission-related written instructions or emission-related settings, the owner or operator shall must keep a maintenance plan, records of conducted maintenance, and conduct a performance test(s), as prescribed at 40 CFR 60.4211(g). [40 CFR 60.4211].	None.
24	The permittee must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Emergency stationary internal combustion engines may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. [40 CFR 60.4211(f)(2)(i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
26	The permittee shall comply with applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 8 to 40 CFR 60 Subpart IIII. [40 CFR 60.4218]	None.	None.	None.
27	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII. No further requirements apply for such engines under 40 CFR 63. (MACT Subpart ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps**Operating Scenario:** OS1 Building 3A #2 Emergency Generator, 1.8 MMBTU/hr, Model Year 2010, 175 kW, 1.1 liter/cylinder displacement, diesel firing

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.08 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.
2	Maximum Gross Heat Input <= 1.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 1.75 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 1.58 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, SO2, TSP, PM10 and PM2.5 are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NOx <= 2.98 g/HP-hr, CO <= 2.61 g/HP-hr, PM10 <= 0.15 g/HP-hr. [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS2 Diesel Fire Pump #1, 1.4 MMBtu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.84 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.
2	Maximum Gross Heat Input \leq 1.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NO _x (Total) \leq 1.2 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO \leq 0.28 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, TSP, PM10 and PM2.5 are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder must comply with the emissions standards in table 4 to NSPS IIII for the same model year and nameplate engine power as follows: NMHC + NO _x \leq 2.98 g/HP-hr, CO \leq 2.61 g/HP-hr, PM10 (Total) \leq 0.15 g/HP-hr. [40 CFR 60.4205(c)]	None.	Other: The owner or operator must keep documentation demonstrating compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS3 Diesel Fire Pump #2, 1.4 MMBtu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.84 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.
2	Maximum Gross Heat Input \leq 1.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NO _x (Total) \leq 1.2 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO \leq 0.28 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, TSP, PM10 and PM2.5 are below reporting threshold of 0.05 lb/hr in N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder must comply with the emissions standards in table 4 to NSPS IIII for the same model year and nameplate engine power as follows: NMHC + NO _x \leq 2.98 g/HP-hr, CO \leq 2.61 g/HP-hr, PM10 (Total) \leq 0.15 g/HP-hr. [40 CFR 60.4205(c)]	None.	Other: The owner or operator must keep documentation demonstrating compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS4 Building 27 Emergency Generator, 4.8 MMBtu/hr, diesel firing

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.88 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.
2	Maximum Gross Heat Input <= 4.8 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.18 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 7.83 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.5 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.08 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.08 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.08 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	The owner or operator of a 2011 model year and later emergency generator with the maximum engine power > 3,000 HP (> 2,237 kW) and a displacement of < 10 liters per cylinder must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and same maximum engine power as follows: NMHC + NOx <= 4.8 g/HP-hr, CO <= 2.6 g/HP-hr, PM <= 0.15 g/HP-hr. [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS5 Building 18, 1.6 MMBTU/hr (HHV) Emerg. Gen. (125 kW) Diesel fuel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.96 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.
2	Maximum Gross Heat Input <= 1.6 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.12 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.11 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.29 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.058 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.058 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.058 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: VOC(Total) <= 0.3 g/HP-hr NOx(Total) <= 2.9 g/HP-hr, CO <= 0.75 g/HP-hr, TSP <= 0.15 g/HP-hr PM (Total) <= 0.15 g/HP-hr. [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U6 Emergency Generators and Diesel Fire Pumps

Operating Scenario: OS6 Building 21, 2.72 MMBTU/hr (HHV) Emerg. Gen. (250 kW) Diesel fuel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 2.72 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Particulate Emissions <= 1.63 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	Maximum Gross Heat Input <= 2.72 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 0.15 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 2.76 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.59 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.14 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.14 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 0.14 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NOx <= 4 g/HP-hr, CO <= 3.5 g/HP-hr, PM10(Total) <= 0.2 g/HP-hr. [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Emission Unit: U400 Portable Temporary Natural Gas Fired Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 NSPS Subpart A 40 CFR Part 60 NSPS Subpart Dc [None]	None.	None.	None.
2	Notify the Department in advance prior to bringing a temporary boiler on site. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit notification: Prior to occurrence of event to the appropriate Regional Enforcement Office of NJDEP. [N.J.A.C. 7:27-22.16(o)]
3	The boiler shall be equipped with a low-NOx burner. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The permittee shall maintain records showing burner type. [N.J.A.C. 7:27-22.16(o)].	None.
4	Operation of the temporary boiler is limited to a total of ninety (90) calendar days during any consecutive 12-month period. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The permittee shall maintain records of calendar dates when a temporary boiler was operated and a total number of days of operation during each calendar year. [N.J.A.C. 7:27-22.16(o)]	None.
5	No visible smoke emissions except for a period not longer than three-minutes in any consecutive 30-minute period. N.J.A.C. 7:27-3.2(a) & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year.</p> <p>If the source is not operated during the quarter of the calendar year in which the annual adjustment is to be performed, the owner or operator shall perform the adjustment within seven days after the boiler or other indirect heat exchanger is next operated.</p> <p>The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]</p>	<p>Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the combustion adjustment monitoring procedures specified in NJDEP Technical Manual 1005 and the procedure at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx and CO in ppmvd and O2 in percent, before and after the adjustment is made; and 6. Convert the measured emission values of NOx, CO and O2 concentrations to lb/MMBTU according to the following formula: $Lb/MMBTU = ppmvd * MW * F \text{ dry factor} * O2 \text{ correction factor} / 387,000,000$, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - O2 \text{ measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com. Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm. [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]</p>

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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 of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
8	VOC (Total) <= 0.02 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 0.12 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.17 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO2 <= 0.01 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.03 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.03 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.03 tons/yr based on maximum hourly emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. NSPS Subpart A. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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

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

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of 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. NSPS Subpart A. [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. NSPS Subpart A. [40 CFR 60.7(a)(4)]
20	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. NSPS Subpart A. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. NSPS Subpart A. [40 CFR 60.7(b)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. NSPS Subpart A. [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. NSPS Subpart A.[40 CFR 60.7(f)].	None.
22	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. NSPS Subpart A. [40 CFR 60.11(d)]	None.	None.	None.
23	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. NSPS Subpart A. [40 CFR 60.12]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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. NSPS Subpart A. [40 CFR 60.13(f)]	None.	None.	None.
25	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. NSPS Subpart A. [40 CFR 60.19]	None.	None.	None.
26	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. NSPS Subpart Dc. [40 CFR 60.48c(a)]	None.	Other: Keep a copy of initial notification and make it available to the department.[40 CFR 60.48(c)(a)].	Submit notification: Upon occurrence of event. [40 CFR 60.48c(a)]
27	The owner or operator shall record the amount of each fuel combusted in the boiler each operating day. NSPS Subpart Dc. [40 CFR 60.48c(g)]	None.	Manual logging of the amount of the fuel combusted each day in a permanently bound logbook. Daily Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48(c)(g)]	None.
28	The owner or operator shall maintain all required records for a period of two years following the date of such record. NSPS Subpart Dc. [40 CFR 60.48c(i)]	None.	None.	None.

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

Emission Unit: U400 Portable Temporary Natural Gas Fired Boiler

Operating Scenario: OS1 Temporary Boiler Firing Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 8.77 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input of the source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) \leq 0.05 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]	None.	NOx (Total): Recordkeeping by other recordkeeping method (provide description) each hour during operation maintain manufacturer documentation showing the NOx lb/MMbtu emission rate. [N.J.A.C. 7:27-22.16(a)]	None.
3	VOC (Total) \leq 0.139 lb/hr based on maximum natural gas usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	VOC (Total): Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
4	NOx (Total) \leq 0.989 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	NOx (Total): Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
5	CO \leq 1.385 lb/hr based maximum natural gas usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	CO: Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
6	SO2 \leq 0.119 lb/hr based on maximum natural gas usage limit. [N.J.A.C. 7:27-22.16(a)]	None.	SO2: Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
7	TSP \leq 0.277 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	TSP: Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
8	PM-10 (Total) \leq 0.277 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	PM-10 (Total): Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
9	PM-2.5 (Total) \leq 0.277 lb/hr. Based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	PM-2.5 (Total): Recordkeeping by record of Emission Statement data each hour during operation. [N.J.A.C. 7:27-22.16(a)]	None.
10	Maximum Gross Heat Input \leq 27.7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Natural Gas Usage <= 6.5 MMft ³ for any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously during operation. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage daily or by manual logging of fuel flow/firing rate in a logbook daily during operation. Cubic feet for any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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

Emission Unit: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Subject Item: CD1 Selective Catalytic Reduction 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The control device(s) must operate at all times during engine operation. Reagent shall be injected at all times during engine operation as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The catalyst array(s) for the SCR shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment. A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum: 1. The date the maintenance was performed; 2. The name, title and affiliation of the person who performed the maintenance; and 3. A description of the of the maintenance activity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Temperature at Catalyst Bed \geq 550 and Temperature at Catalyst Bed \leq 1,250 degrees F for the SCR. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when temperatures outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Catalyst Bed: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	NO _x (Total) \leq 25 ppmv maximum NO _x outlet concentration with reagent control. The reagent is a 32.5% by volume urea/water mixture of reagent to the SCR. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor NO _x outlet concentration.[N.J.A.C. 7:27-22.16(o)].	NO _x (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system daily during operation. Record and maintain records of the NO _x outlet concentration. [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: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Subject Item: CD2 Oxidation Catalyst 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The control device(s) must operate at all times during engine operation. Reagent shall be injected at all times during engine operation as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The catalyst array(s) for the Oxidation Catalyst shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment. A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum: 1. The date the maintenance was performed; 2. The name, title and affiliation of the person who performed the maintenance; and 3. A description of the of the maintenance activity. [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: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Subject Item: CD3 Selective Catalytic Reduction 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The control device(s) must operate at all times during engine operation. Reagent shall be injected at all times during engine operation as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The catalyst array(s) for the SCR shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment. A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum: 1. The date the maintenance was performed; 2. The name, title and affiliation of the person who performed the maintenance; and 3. A description of the of the maintenance activity. [N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Temperature at Catalyst Bed \geq 550 and Temperature at Catalyst Bed \leq 1,250 degrees F for the SCR. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when temperatures outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Catalyst Bed: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	NO _x (Total) \leq 25 ppmv maximum NO _x outlet concentration with reagent control. The reagent is a 32.5% by volume urea/water mixture of reagent to the SCR. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor NO _x outlet concentration.[N.J.A.C. 7:27-22.16(o)].	NO _x (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system daily during operation. Record and maintain records of the NO _x outlet concentration. [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: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Subject Item: CD4 Oxidation Catalyst 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The control device(s) must operate at all times during engine operation. Reagent shall be injected at all times during engine operation as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The catalyst array(s) for the Oxidation Catalyst shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	<p>Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment.</p> <p>A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum:</p> <ol style="list-style-type: none"> 1. The date the maintenance was performed; 2. The name, title and affiliation of the person who performed the maintenance; and 3. A description of the of the maintenance activity. <p>[N.J.A.C. 7:27-22.16(o)].</p>	None.

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**New Jersey Department of Environmental Protection
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Emission Unit: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of applicable federal regulations: 40 CFR 60 Subpart A; 40 CFR 60 Subpart JJJJ. [None]	None.	None.	None.
2	<p>PERIODIC STACK TESTING SUMMARY The permittee shall conduct a periodic stack test using a protocol approved by the Department to demonstrate compliance with emission limits for CO, NOx, VOC and Ammonia as specified in the compliance plan for OS 1 and 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. The first stack test must be performed at the same time as a PMP for CO and NOx. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: https://www.epa.gov/chief, unless another format is approved by EMS. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>RENEWAL STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit using an approved protocol to demonstrate compliance with emission limits for Formaldehyde as specified in the compliance plan for OS 1 and 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.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>
4	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.
5	No Visible Emissions exclusive of visible, condensed water vapor, except for a period of not longer than 10 consecutive seconds." [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Natural Gas Usage \leq 415 MMft ³ for any 12 consecutive months (total for both engines, OS1 and OS2). [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The permittee shall maintain records of the natural gas usage during each calendar month and during each consecutive 12 month period. Cubic feet for any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) \leq 10 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NO _x (Total) \leq 10 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO \leq 33.3 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP \leq 2.1 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) \leq 8.13 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	PM-2.5 (Total) <= 8.13 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	HAPs (Total) <= 4.03 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Acrolein <= 0.09 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Formaldehyde <= 3.94 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Ammonia <= 1.33 tons/yr combined for both engines, based on maximum hourly emission limit and 8760 hours per year operation of each engine. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>The permittee must keep a maintenance plan and records of conducted maintenance, and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by periodic emission monitoring each month during operation. The initial Periodic Monitoring Procedure (PMP) frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>The permittee shall measure the concentrations in the effluent stream of NOx, CO and O2 in accordance with Technical Manual 1005. The permittee shall convert measured concentrations to units of pounds per hour (lb/hr) according to the following formula: $\text{lb/hr} = \text{ppmvd} \times \text{MW} \times \text{F dry factor} \times \text{O2 correction factor} \times \text{MMBTU/hr} / 387,000,000$</p> <p>Where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO MW is the Molecular Weight for: NOx = 46 lb/lb-mole; CO = 28 lb/lb-mole F dry factor for: Natural gas = 8,710 dscf/MMBTU Fuel oil = 9,190 dscf/MMBTU O2 correction factor: $(20.9\%) / (20.9\% - \text{O2 measured})$ O2 measured is percent oxygen on a dry basis MMBTU/hr is maximum gross heat input capacity. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain the following records:</p> <ol style="list-style-type: none"> 1. Date of periodic emission monitoring; 2. Equipment, Emission Unit and Operating Scenario number; 3. Measured concentrations of NOx and CO (ppmvd) and O2 (%); 4. Calculated emissions of NOx and CO (lb/hr and g/bhp-hr); 5. A description of any corrective action taken; 6. Results from any subsequent measurements performed after taking any corrective action, including concentrations and calculated emission values in pounds per hour and grams per brake horsepower hour. [N.J.A.C. 7:27-22.16(o)] 	<p>Submit a report: Annually on or before February 1. The report shall contain the following information:</p> <ol style="list-style-type: none"> 1. Date of periodic emission monitoring; 2. Equipment, Emission Unit and Operating Scenario number; 3. Measured concentrations of NOx and CO (ppmvd) and O2 (%); 4. Calculated emissions of NOx and CO (lb/hr and g/bhp-hr); 5. Permitted emission limits of NOx and CO; 6. A description of any corrective action taken; 7. Results from any subsequent measurements performed after taking any corrective action, including concentrations and calculated emission values in pounds per hour and grams per brake horsepower hour. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The owner or operator of a new non-certified SI ICE natural gas or lean burn LPG with a maximum engine power of \geq 1350 HP (\geq 1010 kW) manufactured after July 1, 2007 and prior to July 1, 2010 must meet the emission standards for engines HP \geq 500 summarized in Table 1 in 40 CFR 60 Subpart JJJJ as follows: NOx \leq 2.0 g/HP-hr (2.7 g/kW-hr), CO \leq 4.0 g/HP-hr (5.4 g/kW-hr), VOC \leq 1.0 g/HP-hr (1.3 g/kW-hr) or NOx \leq 160 ppmvd @15% O ₂ , CO \leq 540 ppmvd @ 15% O ₂ , VOC \leq 86 ppmvd @ 15% O ₂ . [40 CFR 60.4233(e)]	Monitored by stack emission testing at the approved frequency, based on the average of three 1-hour tests. The permittee shall conduct an initial performance test and conduct subsequent performance testing every 8760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance, per 40 CFR 60.4243(b)(2)(ii). Each performance test must be conducted according to the requirements in 40 CFR 60.8 and 40 CFR 60.4244 and under the specific conditions specified in Table 2 to 40 CFR 60 Subpart JJJJ. The tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). Three separate test runs for each performance test must be conducted, each test run must last at least 1 hour. Compliance with the emission limits shall be determined based on calculations in 40 CFR 60.4244(d) through (g). [40 CFR 60.4243(b)(2)]	Recordkeeping by stack test results at the approved frequency. The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)]	Submit a stack test report: Within 60 days of stack testing. The owner or operator of a SI ICE engine must submit the results of stack tests to EPA Region 2 and to the Regional Enforcement Office of NJDEP. [40 CFR 60.4245(d)]
19	The permittee must keep a maintenance plan and records of conducted maintenance, and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4243(b)(2)(ii)]	None.	None.	None.

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

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

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
27	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
28	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
29	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]
31	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
32	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
33	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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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	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.
35	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
36	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.
37	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS JJJJ. [40 CFR 63].	None.

BOP180002

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

Emission Unit: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Operating Scenario: OS1 CHP-006-5 SI Engine with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input \leq 19.9 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain the manufacturer's specifications showing the maximum heat input rate for the reciprocating engine on site for the life of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
2	Particulate Emissions \leq 7.8 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input of the source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	The owner or operator of a stationary reciprocating engine that has a maximum rated power output of 37 kW or more shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and in accordance with the manufacturer's recommended procedures and maintenance schedules. [N.J.A.C. 7:27-16.10(e)] and [N.J.A.C. 7:27-19.8(f)]	Monitored by periodic emission monitoring upon performing combustion adjustment. Monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.16(g)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment. The permittee shall record the following information for each adjustment in a log book or computer data system: 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO _x , CO, and O ₂ measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]	None.
4	NO _x (Total) \leq 0.9 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(c)]	NO _x (Total): Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-19.15(a)2]	NO _x (Total): Recordkeeping by stack test results annually. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: Annually. [N.J.A.C. 7:27-22.16(o)]

BOP180002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	NOx (Total) <= 0.15 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 25 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 0.89 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results annually. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
8	CO <= 0.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 140 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 2.98 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results annually. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
11	VOC (Total) <= 0.15 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
12	VOC (Total) <= 15 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [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
13	VOC (Total) <= 1.34 lb/hr based on manufacturer's emission factor. This limit includes formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results annually. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
14	Ammonia <= 10 ppmvd @ 15% O ₂ . [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing annually. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results annually. [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 may request EMS to use the approved protocol. [N.J.A.C. 7:27-22.16(o)]
15	Ammonia <= 0.152 lb/hr hourly emission rate based on the max NO _x outlet concentration limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 0.19 lb/hr based on AP-42 emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 0.72 lb/hr based on AP-42 emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	PM-2.5 (Total) <= 0.72 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Acrolein <= 0.01 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Formaldehyde <= 0.45 lb/hr based on manufacturer's emission factor. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]

BOP180002

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

Emission Unit: U500 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

Operating Scenario: OS2 CHP-006-5 SI Engine with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

The requirements for this item are identical to those for: U500 OS1

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Hopewell Campus Owner, LLC

Facility ID (AIMS): 61053

Street 311 PENNINGTON-ROCKY HILL RD
Address: PENNINGTON, NJ 08534

State Plane Coordinates:	
X-Coordinate:	417,715
Y-Coordinate:	550,371
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-GIS
Source Type:	DEP Program Database

Mailing 311 PENNINGTON-ROCKY HILL RD
Address: PENNINGTON, NJ 08543

County: Mercer

Location From Trenton: North on US 206 to I-95. I-95
Description: to State Rt. 31. In Pennington go to
Pennington-Rocky Hill Road.

Industry:	
Primary SIC:	2834
Secondary SIC:	
NAICS:	325412

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

Contact Type: Air Permit Information Contact

Organization: Hopewell Campus Owner

Org. Type: Corporation

Name: David Weinstein

NJ EIN: 19511600020

Title: Officer

Phone: (201) 531-2366 x

Mailing Address: c/o Linque Management Co. Inc.

Fax: (201) 460-1848 x

One Meadowlands Plaza, Suite 803

Other: (609) 203-3618 x

East Rutherford, NJ 07073

Type: Mobile

Email: dweinstein@lincolnequities.com

Contact Type: Consultant

Organization: Air Engineering

Org. Type: Corporation

Name: Jony Laplante

NJ EIN:

Title:

Phone: (732) 306-7498 x

Mailing Address:

Fax: () - x

Other: () - x

Type:

Email: jony.laplante@ramboll.com

Contact Type: Fees/Billing Contact

Organization: Hopewell Campus Owner

Org. Type: Corporation

Name: David Weinstein

NJ EIN: 19511600020

Title: Officer

Phone: (201) 531-2366 x

Mailing Address: c/o Linque Management Co. Inc.

Fax: (201) 460-1848 x

One Meadowlands Plaza, Suite 803

Other: (609) 203-3618 x

East Rutherford, NJ 07073

Type: Mobile

Email: dweinstein@lincolnequities.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: Hopewell Campus Owner, LLC

Org. Type:

Name: Hopewell Campus Owner, LLC

NJ EIN:

Title:

Phone: (212) 546-4000 x

Mailing Address: 311 PENNINGTON-ROCKY HILL RD
Pennington, NJ

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Owner (Current Primary)

Organization: Hopewell Campus Owner, LLC

Org. Type:

Name: Hopewell Campus Owner, LLC

NJ EIN: 19511600020

Title:

Phone: (212) 546-4000 x

Mailing Address: 311 PENNINGTON-ROCKY HILL RD
Pennington, NJ

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Owner (Former)

Organization: Bristol-Myers Squibb Company, Inc.

Org. Type: Corporation

Name: Bristol-Myers Squibb Company, Inc.

NJ EIN:

Title:

Phone: (212) 546-4000 x

Mailing Address: 345 Park Avenue
430 East 29th Street 14th floor, West To
New York, NY 10154

Fax: () - x

Other: () - x

Type:

Email:

HOPEWELL CAMPUS OWNER, LLC (61053)
BOP180002

Date: 4/7/2021

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: Hopewell Campus Owner

Name: David Weinstein

Title: Officer

Phone: (201) 531-2366 x

Fax: (201) 460-1848 x

Other: (609) 203-3618 x

Type: Mobile

Email: dweinstein@lincolnequities.com

Org. Type: Corporation

NJ EIN: 19511600020

Mailing Address: c/o Linque Management Co. Inc.
One Meadowlands Plaza, Suite 803
East Rutherford, NJ 07073

New Jersey Department of Environmental Protection
 Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)									
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)	
FG1	Equipment Cleaning Operations	Facility wide										
FG2	Misc. Maintenance Activities	Facility wide										
Total			2.500	0.030	0.030	0.030	0.030	0.030				

**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	Small Storage Tanks (<2000 gal/each)	Storage Vessel	Facility wide										
IS2	Small Combustion Equipment (< 1 MMBtu/hr max. heat input)	Fuel Combustion Equipment (Other)	Facility wide										
IS3	Insignificant Coating Operations (<0.5 gal/hr/each)	Surface Coating Equipment (Non-Fabric Material)	Facility wide										
IS4	Unheated Open-top Small Parts Cleaners (each unit capacity <= 100 gallons and top opening <= 6 sq.ft.)	Cleaning Machine (Open Top: Cold)	Facility wide										
IS5	Small Drying Operations (< 1 MMBtu/hr/each ,<= 50 lbs/hr raw materials)	Other Equipment	Facility wide										
IS6	Cooling Tower Operations (process <= 50 lb/hr, excluding water)	Other Equipment	Facility wide										
IS7	Portable Storage Tanks/Totes (<2000 gal/each)	Other Equipment	Facility wide										
IS8	Tank Wagons (<2000 gal/each)	Other Equipment	Facility wide										

**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)	
IS9	Wastewater Equipment (Wastewater concentration < 100 ppb by wt. any TXS, < 3500 ppb by wt. of total VOC)	Other Equipment	Facility wide										
IS10	Hazardous Waste Storage Areas (<2000 gal/each)	Other Equipment	Facility wide										
IS11	Steam Venting Operations (<= 50 lb/hr raw material process rate)	Other Equipment	Facility wide										
IS12	Four Light Distillate Fuel Oil Storage Tanks (<= 25,000 gallons each, vapor pressure < 0.02 psia)	Storage Vessel	Facility wide										
Total				3.300	1.000	1.000	0.500	0.500	0.500				

**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	Bldg2B1r1	Bldg 2. Boiler No. 1	Boiler	70845		No		
E2	Bldg2B12	Bldg 2. Boiler No. 2	Boiler	70845		No		
E16	CUC-B1	Cleaver Brooks Boiler No. 1	Boiler	PCP980001 Approved April 3, 2002		No		
E17	CUC-B2	Cleaver Brooks Boiler No. 2	Boiler	PCP980002 Approved April 3, 2002		No		
E21	EG-G2B#1	G2B#1Emergency Generator	Emergency Generator	121546		No		
E22	EG-G2B#2	G2B#2 Emergency Generator	Emergency Generator	121555		No		
E23	EG-G2B#3	G2B#3 Emergency Generator	Emergency Generator	121547		No		
E24	EG-G2B#4	G2B#4 Emergency Generator	Emergency Generator	121554		No		
E25	EG-G3B	G3B Emergency Generator	Emergency Generator	121551		No		
E26	EG-G4	G4 Emergency Generator	Emergency Generator	66013		No		
E28	EG-G13	G13 Emergency Generator	Emergency Generator	121549		No		
E29	EG-G16	G16 Emergency Generator	Emergency Generator	121553		No		
E30	EG-G3A	Building 3A Emergency Generator	Emergency Generator	GEN030001 Approved 7/30/03		No		
E31	EG-G19	G19 Emergency Generator	Emergency Generator	121552		No		
E33	EG-B17/21	Emergency Generator B17/21	Emergency Generator	PCP990006 Approved 10/26/99		No		

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E34	EG-CUC1	Emergency Generator CUC1	Emergency Generator	PCP990004 Approved 10/26/99		No		
E35	EG-CUC2	Emergency Generator CUC2	Emergency Generator	PCP990005 Approved 10/26/99		No		
E43	EG-WWTP	Emergency Generator WWTP	Emergency Generator	GEN990001 Approved 9/30/99		No		
E45	B27B2	Building 27 Boiler No. 2, 4 MMBtu/hr, Natural Gas or LPG Fired	Boiler	BOP070001		No		
E46	B27B3	Building 27 Boiler No. 3, 4 MMBtu/hr, Natural Gas or LPG Fired	Boiler	BOP070001		No		
E47	B3A#2 EG	Building 3A #2 175 kW Emergency Generator	Emergency Generator	BOP120001	11/1/2010	No		
E48	New DFP#1	Diesel Fire Pump #1, 1.4 MMBtu/hr	Emergency Fire Pump	BOP120001		No		
E49	New DFP#2	Diesel Fire Pump #2, 1.4 MMBtu/hr	Emergency Fire Pump	BOP120001		No		
E50	EG-B27	Building 27 500 kW Emergency Generator	Emergency Generator	BOP120001		No		
E207	EG-B2#1	Building 2 Emergency Generator #1	Emergency Generator	PCP010001 Approved 12/03/01		No		

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

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E208	EG-B2#2	Building 2 Emergency Generator #2	Emergency Generator	PCP010001 Approved 12/03/01		No		
E400	Temp Blr	Temporary 650 HP Boiler	Boiler		11/15/2004	No		
E500	CHP-1	CHP SI Engine with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired.	Stationary Reciprocating Engine	BOP140001		No		
E501	CHP-2	CHP SI Engines, 19.9 MMBtu/hr, Natural Gas	Stationary Reciprocating Engine	BOP140001		No		
E600	B18-EG	1.6 MMBTU/hr (HHV) Emerg. Gen. (125 kW)	Emergency Generator	BOP150002	12/1/2015	No		
E700	B21 EG	2.72 MMBTU/hr (HHV) Emerg. Gen. (250 kW)	Emergency Generator	BOP160002	1/13/2017	No		

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E1 (Boiler)
Print Date: 4/7/2021

Make: Cleaver Brooks
Manufacturer: 2014
Model: CB 700X-80-15ST,
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 3.35
Boiler Type: Fire Tube
Utility Type: Non-Utility
Output Type: Steam Only
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type: Indirect

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

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

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

No

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

Yes

Comments: Building No. 2 - Boiler No. 1; serial numbers OL078537

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E2 (Boiler)
Print Date: 4/7/2021

Make: Cleaver Brooks
Manufacturer: 2014
Model: CB 700X-80-15ST
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 3.35
Boiler Type: Fire Tube
Utility Type: Non-Utility
Output Type: Steam Only
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type: Indirect

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

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

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

No

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

Yes

Comments: Building No. 2 - Boiler No. 2; serial number OL078538

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E16 (Boiler)
Print Date: 4/7/2021

Make: Cleaver Brooks
Manufacturer: Cleaver Brooks
Model: DL-68
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 63.30
Boiler Type: Package
Utility Type: Non-Utility
Output Type: Steam Only
Steam Output (lb/hr): 50,000.00
Fuel Firing Method: Wall-fired or cross-fired
Description (if other):
Draft Type: Forced
Heat Exchange Type: Indirect

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

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

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

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

Comments:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E17 (Boiler)
Print Date: 4/7/2021

Make: Cleaver Brooks
Manufacturer: Cleaver Brooks
Model: DL-68
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 63.30
Boiler Type: Package
Utility Type: Non-Utility
Output Type: Steam Only
Steam Output (lb/hr): 50,000.00
Fuel Firing Method: Wall-fired or cross-fired
Description (if other):
Draft Type: Forced
Heat Exchange Type: Indirect

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

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

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

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

Comments:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E21 (Emergency Generator)

Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E22 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E23 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E24 (Emergency Generator)

Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E25 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E26 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E28 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E29 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E30 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E31 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E33 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E34 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E35 (Emergency Generator)

Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E43 (Emergency Generator)

Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E45 (Boiler)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E46 (Boiler)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E47 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E48 (Emergency Fire Pump)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E49 (Emergency Fire Pump)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E50 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E207 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E208 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E400 (Boiler)
Print Date: 4/7/2021

Make: Firetube Boiler
Manufacturer: Powerhouse Equipment and Engineering
Model: 650 XID or equivalent
Maximum Rated Gross Heat Input (MMBtu/hr - HHV): 27.70
Boiler Type: Fire Tube
Utility Type: Non-Utility
Output Type: Steam Only
Steam Output (lb/hr): 22,425.00
Fuel Firing Method: Wall-fired or cross-fired
Description (if other):
Draft Type: Forced
Heat Exchange Type: Indirect

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

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

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

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

Comments:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E500 (Stationary Reciprocating Engine)
Print Date: 4/7/2021

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Cummins"/>
Model:	<input type="text" value="C2000N6C"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="19.9"/>
Class:	<input type="text" value="Lean Burn"/>
Description:	<input type="text"/>
Duty:	<input type="text"/>
Description:	<input type="text"/>
Minimum Load Range (%):	<input type="text"/>
Maximum Load Range (%):	<input type="text"/>
Stroke:	<input type="text" value="4-stroke"/>
Power Output (BHP):	<input type="text" value="2826"/>
Electric Output(KW):	<input type="text" value="2108"/>
Compression Ratio:	<input type="text"/>
Ignition Type:	<input type="text" value="Spark"/>
Description:	<input type="text"/>
Engine Speed (RPM):	<input type="text"/>
Engine Exhaust Temperature (°F):	<input type="text"/>
Air to Fuel Ratio at Peak Load:	<input type="text"/>
Ratio Basis:	<input type="text"/>
Lambda Factor (scfm/scfm):	<input type="text"/>
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>
Output Type:	<input type="text" value="Cogeneration"/>
Heat to Power Ratio:	<input type="text"/>
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>
Description:	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>

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

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E501 (Stationary Reciprocating Engine)
Print Date: 4/7/2021

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Cummings"/>
Model:	<input type="text" value="C2000N6C"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="19.9"/>
Class:	<input type="text" value="Lean Burn"/>
Description:	<input type="text"/>
Duty:	<input type="text"/>
Description:	<input type="text"/>
Minimum Load Range (%):	<input type="text"/>
Maximum Load Range (%):	<input type="text"/>
Stroke:	<input type="text" value="4-stroke"/>
Power Output (BHP):	<input type="text" value="2826"/>
Electric Output(KW):	<input type="text" value="2108"/>
Compression Ratio:	<input type="text"/>
Ignition Type:	<input type="text" value="Spark"/>
Description:	<input type="text"/>
Engine Speed (RPM):	<input type="text"/>
Engine Exhaust Temperature (°F):	<input type="text"/>
Air to Fuel Ratio at Peak Load:	<input type="text"/>
Ratio Basis:	<input type="text"/>
Lambda Factor (scfm/scfm):	<input type="text"/>
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>
Output Type:	<input type="text" value="Cogeneration"/>
Heat to Power Ratio:	<input type="text"/>
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/> Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>
Description:	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>

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

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E600 (Emergency Generator)
Print Date: 4/7/2021

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:

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 E700 (Emergency Generator)
Print Date: 4/7/2021

Make:	<input type="text" value="2016"/>
Manufacturer:	<input type="text" value="Caterpillar"/>
Model:	<input type="text" value="C9 ACERT"/>
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="2.72"/>
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text" value="Power output(bhp) - 398 ; Electric output (kw) - 250 ; Displacement - 1.5 L per cylinder ; 4stroke compression"/>

**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	SCR 1	Selective Catalytic Reduction 1	Selective Catalytic Reduction		No		
CD2	Ox CAT 1	Oxidation Catalyst 1	Oxidizer (Catalytic)		No		
CD3	SCR 2	Selective Catalytic Reduction 2	Selective Catalytic Reduction		No		
CD4	Ox CAT 2	Oxidation Catalyst 2	Oxidizer (Catalytic)		No		

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD1 (Selective Catalytic Reduction)
Print Date: 4/7/2021

Make:	
Manufacturer:	Miratech
Model:	SP-ZCSSI0F-54x41-30-HSG
Minimum Temperature at Catalyst Bed (°F):	550
Maximum Temperature at Catalyst Bed (°F):	1250
Minimum Temperature at Reagent Injection Point (°F):	70
Maximum Temperature at Reagent Injection Point (°F):	1200
Type of Reagent:	Urea
Description:	
Chemical Formula of Reagent:	(h2N)2CO
Minimum Reagent Charge Rate (gpm):	
Maximum Reagent Charge Rate (gpm):	
Minimum Concentration of Reagent in Solution (% Volume):	32.5
Minimum NOx to Reagent Mole Ratio:	
Maximum NOx to Reagent Mole Ratio:	
Maximum Anticipated Ammonia Slip (ppm):	10
Type of Catalyst:	
Volume of Catalyst (ft³):	20
Form of Catalyst:	
Anticipated Life of Catalyst:	3
Units:	Years
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	
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 any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

Yes No

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD1 (Selective Catalytic Reduction)
Print Date: 4/7/2021

Comments:

Urea typical charge rate is 2 gal/hr

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD2 (Oxidizer (Catalytic))
Print Date: 4/7/2021

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Miratech"/>
Model:	<input type="text" value="SP-ZCSSIOF-54x41-30-HSG"/>
Minimum Inlet Temperature (°F):	<input type="text"/>
Maximum Inlet Temperature (°F)	<input type="text"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	<input type="text" value=""/>
Description:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<input type="text"/>
Form of Catalyst:	<input type="text" value=""/>
Description:	<input type="text"/>
Minimum Expected Life of Catalyst:	<input type="text"/>
Units:	<input type="text" value=""/>
Volume of Catalyst (ft³):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text"/>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text" value="Passive Oxidation Catalyst for CO control on engine"/>

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD3 (Selective Catalytic Reduction)
Print Date: 4/7/2021

Make:	
Manufacturer:	Miratech
Model:	SP-ZCSSI0F-54x41-30-HSG
Minimum Temperature at Catalyst Bed (°F):	550
Maximum Temperature at Catalyst Bed (°F):	1250
Minimum Temperature at Reagent Injection Point (°F):	70
Maximum Temperature at Reagent Injection Point (°F):	1200
Type of Reagent:	Urea
Description:	
Chemical Formula of Reagent:	(h2N)2CO
Minimum Reagent Charge Rate (gpm):	
Maximum Reagent Charge Rate (gpm):	
Minimum Concentration of Reagent in Solution (% Volume):	32.5
Minimum NOx to Reagent Mole Ratio:	
Maximum NOx to Reagent Mole Ratio:	
Maximum Anticipated Ammonia Slip (ppm):	10
Type of Catalyst:	
Volume of Catalyst (ft³):	20
Form of Catalyst:	
Anticipated Life of Catalyst:	3
Units:	Years
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	
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 any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

Yes No

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD3 (Selective Catalytic Reduction)
Print Date: 4/7/2021

Comments:

Urea typical charge rate is 2 gal/hr

61053 HOPEWELL CAMPUS OWNER, LLC BOP180002 CD4 (Oxidizer (Catalytic))
Print Date: 4/7/2021

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Miratech"/>
Model:	<input type="text" value="SP-ZCSSIOF-54x41-30-HSG"/>
Minimum Inlet Temperature (°F):	<input type="text"/>
Maximum Inlet Temperature (°F)	<input type="text"/>
Minimum Outlet Temperature (°F)	<input type="text"/>
Maximum Outlet Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec)	<input type="text"/>
Fuel Type:	<input type="text" value=""/>
Description:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Minimum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Maximum Pressure Drop Across Catalyst (psi):	<input type="text"/>
Catalyst Material:	<input type="text"/>
Form of Catalyst:	<input type="text" value=""/>
Description:	<input type="text"/>
Minimum Expected Life of Catalyst:	<input type="text"/>
Units:	<input type="text" value=""/>
Volume of Catalyst (ft³):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text"/>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text" value="Passive Oxidation Catalyst for CO control on engine"/>

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	Bldg2	Building 2 Boilers No. 1 and No. 2 Stack	Round	42	55	1,400	250.0	350.0	450.0	1,500.0	200.0	2,000.0	Up	
PT12	CUC-B1	CUC-B1 Boiler Stack	Round	39	50	325	250.0	200.0	550.0	15,000.0	18,000.0	26,500.0	Up	
PT13	CUC-B2	CUC-B2 Boiler Stack	Round	39	50	325	250.0	200.0	550.0	15,000.0	1,800.0	26,500.0	Up	
PT17	EG-G2B#1	EG-G2B#1 Emergency Generator Stack	Round	12	15	1,300	1,000.0	800.0	1,200.0	9,000.0	1,000.0	10,000.0	Up	
PT18	EG-G2B#2	EG-G2B#2 Emergency Generator Stack	Round	12	15	1,300	1,000.0	800.0	1,200.0	9,000.0	1,000.0	10,000.0	Up	
PT19	EG-G2B#3	EG-G2B#3 Emergency Generator Stack	Round	12	15	1,300	1,000.0	800.0	1,200.0	9,000.0	1,000.0	10,000.0	Up	
PT20	EG-G2B#4	EG-G2B#4 Emergency Generator Stack	Round	12	15	1,300	1,000.0	800.0	1,200.0	9,000.0	1,000.0	10,000.0	Up	
PT21	EG-G3B	EG-G3B Emergency Generator Stack	Round	3	7	1,200	1,000.0	800.0	1,200.0	1,500.0	100.0	1,700.0	Up	
PT22	EG-G4	EG-G4 Emergency Generator Stack	Round	3	7	700	1,000.0	800.0	1,200.0	1,200.0	100.0	1,400.0	Up	
PT24	EG-G13	EG-G13 Emergency Generator Stack	Round	3	7	1,000	1,000.0	800.0	1,200.0	1,300.0	100.0	1,600.0	Up	
PT25	EG-G16	EG-G16 Emergency Generator Stack	Round	3	7	500	1,000.0	800.0	1,200.0	450.0	50.0	500.0	Up	
PT26	EG-G3A	Building 3A Emergency Generator Stack	Round	3	8	1,000	1,000.0	800.0	1,200.0	700.0	75.0	750.0	Up	
PT27	EG-G19	EG-G19 Emergency Generator Stack	Round	3	7	700	1,000.0	800.0	1,200.0	1,300.0	100.0	1,600.0	Up	
PT29	EG-B17/21-1	EG-B17/21-1 Stack 1	Round	8	14	900	975.0	70.0	1,000.0	4,203.0	0.0	5,000.0	Up	
PT30	EG-B17/21-2	EG-B17/21-2 Stack 2	Round	8	14	900	975.0	70.0	1,000.0	4,203.0	0.0	5,000.0	Up	

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.		
PT31	EG-CUC1	EG-CUC1 Stack	Round	14	35	450	960.0	70.0	1,000.0	10,850.0	0.0	11,000.0	Up	
PT39	EG-CUC2	EG-CUC2 Stack	Round	14	35	450	960.0	70.0	1,000.0	10,850.0	0.0	11,000.0	Up	
PT40	EG-WWTP	EG- Waste Water Treatment Plant	Round	4	20	700	925.0	70.0	1,000.0	1,430.0	0.0	1,600.0	Up	
PT45	B27B2	Bldg 27 Boiler No. 2 Stack	Round	16	56	1,400	425.0	70.0	600.0	1,300.0	0.0	1,500.0	Up	
PT46	B27B3	Bldg 27 Boiler No. 3 Stack	Round	16	56	1,400	425.0	70.0	600.0	1,300.0	0.0	1,500.0	Up	
PT47	B3A#2 EG	Building 3A #2 Emergency Generator	Round	4	7	950	966.0	700.0	1,200.0	3,019.0	0.0	5,000.0	Up	
PT48	New DFP#1	Diesel Fire Pump #1 Stack	Round	6		1,100	848.0	70.0	1,200.0	3,734.0	0.0	5,000.0	Up	
PT49	New DFP#2	Diesel Fire Pump #2 Stack	Round	6		1,100	848.0	70.0	1,200.0	3,734.0	0.0	5,000.0	Up	
PT50	EG-B27	Bldg 27 Emergency Generator Stack	Round	6		1,200	942.0	70.0	1,200.0	3,842.0	0.0	5,000.0	Up	
PT207	EG-B2#1	Bldg 2 Emergency Generator Stack #1	Round	14	15	1,300	825.0	70.0	1,000.0	16,620.0	0.0	20,000.0	Horizontal	
PT208	EG-B2#2	Bldg 2 Emergency Generator Stack #2	Round	14	15	1,300	825.0	70.0	1,000.0	16,620.0	0.0	20,000.0	Horizontal	
PT400	Temp Blr	Temporary Boiler Stack	Round	24	10	20	425.0	70.0	600.0	8,936.0	0.0	10,000.0	Up	
PT500	CHP Engin	CHP SI Engin	Round	24	35	430		70.0	900.0		0.0	20,000.0	Up	
PT501	CHP Engin	CHP SI Engine, 19.9 MMBtu/hr,NG	Round	24	35	430		70.0	900.0		0.0	20,000.0	Up	
PT600	B18-EG	Emerg. Gen. E600 Stack	Round	35	6	419		70.0	1,000.0		0.0	4,000.0	Up	
PT700	Bldg 21 EG	Emerg. Gen. E700 Stack	Round	4	10	835	852.0	70.0	1,000.0	2,246.0	0.0	4,000.0	Up	

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

U 1 Boilers Two Steam Boilers (3.35 MMBtu/hr) Firing Natural Gas

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	Bldg2-B1-NG	Bldg 2. Boiler No. 1, natural gas firing, normal operation (3.35 MMBtu/hr) PT1	Normal - Steady State	E1		PT1	1-03-006-02 1-03-006-03	0.0	8,760.0		100.0	1,000.0	350.0	450.0
OS2	Bldg2-B2-NG	Bldg 2. Boiler No. 2, natural gas firing, normal operation (3.35 MMBtu/hr) PT1	Normal - Steady State	E2		PT1	1-03-006-02 1-03-006-03	0.0	8,760.0		100.0	1,000.0	350.0	450.0

U 2 Engines Emergency Generators

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	G2B#1-FO	G2B#1 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)	Normal - Steady State	E21		PT17	2-03-001-01	0.0	500.0		0.0	10,000.0	800.0	1,200.0
OS2	G2B#2-FO	G2B#2 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)	Normal - Steady State	E22		PT18	2-03-001-01	0.0	500.0		0.0	10,000.0	800.0	1,200.0
OS3	G2B#3-FO	G2B#3 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)	Normal - Steady State	E23		PT19	2-03-001-01	0.0	500.0		0.0	10,000.0	800.0	1,200.0

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

U 2 Engines Emergency Generators

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS4	G2B#4-FO	G2B#4 Emergency Generator - Light Distillate Fuel Oil Firing (12 MMBtu/hr)	Normal - Steady State	E24		PT20	2-03-001-01	0.0	500.0		0.0	10,000.0	800.0	1,200.0
OS5	G3B-FO	G3B Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)	Normal - Steady State	E25		PT21	2-03-001-01	0.0	500.0		0.0	1,700.0	800.0	1,200.0
OS6	G4-FO	G4 Emergency Generator - Light Distillate Fuel Oil Firing (1.7 MMBtu/hr)	Normal - Steady State	E26		PT22	2-03-001-01	0.0	500.0		0.0	1,400.0	800.0	1,200.0
OS8	G13-FO	G13 Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)	Normal - Steady State	E28		PT24	2-03-001-01	0.0	500.0		0.0	1,600.0	800.0	1,200.0
OS9	G16-FO	G16 Emergency Generator - Light Distillate Fuel Oil Firing (1.0 MMBtu/hr)	Normal - Steady State	E29		PT25	2-03-001-01	0.0	500.0		0.0	500.0	800.0	1,200.0
OS10	G3A-FO	Building 3A Emergency Generator - Light Distillate Fuel Oil Firing (2.27 MMBtu/hr)	Normal - Steady State	E30		PT26	2-03-001-01	0.0	500.0		0.0	750.0	800.0	1,200.0
OS11	G19-FO	G19 Emergency Generator - Light Distillate Fuel Oil Firing (2.1 MMBtu/hr)	Normal - Steady State	E31		PT27	2-03-001-01	0.0	500.0		0.0	1,600.0	800.0	1,200.0
OS13	EG-B17/21	EG-B17/21 Emergency Generator - Light Distillate Fuel Oil Firing (10 MMBtu/hr)	Normal - Steady State	E33		PT29 PT30	2-03-001-01	0.0	390.0		0.0	5,000.0	70.0	1,000.0
OS14	EG-CUC1	EG-CUC1 Emergency Generator - Light Distillate Fuel Oil Firing (14.5 MMBtu/hr)	Normal - Steady State	E34		PT31	2-03-001-01	0.0	390.0		0.0	11,000.0	70.0	1,000.0

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

U 2 Engines Emergency Generators

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.
OS15	EG-CUC2	EG-CUC2 Emergency Generator - Light Distillate Fuel Oil Firing (14.5 MMBtu/hr)	Normal - Steady State	E35		PT39	2-03-001-01	0.0	390.0		0.0	11,000.0	70.0	1,000.0
OS16	EG-WWTP	WWTP Emergency Generator - Light Distillate Fuel Oil Firing (<3 MMBtu/hr)	Normal - Steady State	E43		PT40	2-03-001-01	0.0	200.0		0.0	1,600.0	70.0	1,000.0
OS17	EG-B2#1	Bldg 2 Emergency Generator #1 - Light Distillate Fuel Oil Firing (18.6 MMBtu/hr)	Normal - Steady State	E207		PT207	2-03-001-01	0.0	500.0		0.0	20,000.0	70.0	1,000.0
OS18	EG-B2#2	Bldg 2 Emergency Generator #2 - Light Distillate Fuel Oil Firing (18.6 MMBtu/hr)	Normal - Steady State	E208		PT208	2-03-001-01	0.0	500.0		0.0	20,000.0	70.0	1,000.0

U 4 CUC Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

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	B1-NG	CUC Boiler No. 1 - Natural Gas Operation	Normal - Steady State	E16		PT12	1-02-006-02	0.0	8,760.0		0.0	26,500.0	200.0	550.0

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

U 4 CUC Central Utility Complex Two Boilers (63.3 MMBtu/hr each) Natural Gas and Light Distillate Fuel Oil

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	B1-FO	CUC Boiler No. 1 - Light Distillate Fuel Oil Operation	Normal - Steady State	E16		PT12	1-02-006-02	0.0	1,440.0		0.0	26,500.0	200.0	550.0
OS3	B2-NG	CUC Boiler No. 2 - Natural Gas Operation	Normal - Steady State	E17		PT13	1-02-006-02	0.0	8,760.0		0.0	26,500.0	200.0	550.0
OS4	B2-FO	CUC Boiler No. 2 - Light Distillate Fuel Oil Operation	Normal - Steady State	E17		PT13	1-02-006-02	0.0	1,440.0		0.0	26,500.0	200.0	550.0

U 5 B27-Boilers Building 27, Two Boilers

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	Bldg27B2-NG	Bldg 27. Boiler No. 2, natural gas firing, normal operation (4 MMBtu/hr) PT45	Normal - Steady State	E45		PT45	1-03-006-03	0.0	8,760.0		0.0	1,300.0	70.0	600.0
OS2	Bldg27B2-LPG	Bldg 27. Boiler No. 2, LPG firing, normal operation (4 MMBtu/hr) PT45	Normal - Steady State	E45		PT45	1-03-010-02	0.0	8,760.0		0.0	1,300.0	70.0	600.0
OS3	Bldg27B3-NG	Bldg 27. Boiler No. 3, natural gas firing, normal operation (4 MMBtu/hr) PT46	Normal - Steady State	E46		PT46	1-03-006-03	0.0	8,760.0		0.0	1,300.0	70.0	600.0

HOPEWELL CAMPUS OWNER, LLC (61053)
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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 5 B27-Boilers Building 27, Two Boilers

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS4	Bldg27B3-LPG	Bldg 27. Boiler No. 3, LPG firing, normal operation (4 MMBtu/hr) PT46	Normal - Steady State	E46		PT46	1-03-010-02	0.0	8,760.0		0.0	1,300.0	70.0	600.0

U 6 New EGs/DFPs Emergency Generators and Diesel Fire Pumps

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	B3A#2 EG	Building 3A #2 Emergency Generator, 1.8 MMBTU/hr, Model Year 2010, 175 kW, 1.1 liter/cylinder displacement, diesel firing	Normal - Steady State	E47		PT47	2-02-001-02	0.0	500.0		0.0	5,000.0	70.0	1,200.0
OS2	New DFP#1	Diesel Fire Pump #1, 1.4 MMBtu/hr	Normal - Steady State	E48		PT48	2-02-001-02	0.0	500.0		0.0	5,000.0	70.0	1,200.0
OS3	New DFP#2	Diesel Fire Pump #2, 1.4 MMBtu/hr	Normal - Steady State	E49		PT49	2-02-001-02	0.0	500.0		0.0	5,000.0	70.0	1,200.0
OS4	EG-B27	Building 27 Emergency Generator, 4.8 MMBtu/hr, diesel firing	Normal - Steady State	E50		PT50	2-02-001-02	0.0	500.0		0.0	5,000.0	70.0	1,200.0

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

U 6 New EGs/DFPs Emergency Generators and Diesel Fire Pumps

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS5	EG-B18	Building 18, 1.6 MMBTU/hr (HHV) Emerg. Gen. (125 kW) Diesel fuel	Normal - Steady State	E600		PT600	2-02-001-02	0.0	100.0		0.0	5,000.0	70.0	1,200.0
OS6	B21 EG	Building 21, 2.72 MMBTU/hr (HHV) Emerg. Gen. (250 kW) Diesel fuel	Normal - Steady State	E700		PT700	2-02-001-02	0.0	100.0		0.0	5,000.0	70.0	1,200.0

U 400 Temp Boiler Portable Temporary Natural Gas Fired Boiler

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	TB-N	Temporary Boiler Firing Natural Gas	Maintenance	E400		PT400	1-02-006-02	0.0	240.0		0.0	10,000.0	70.0	600.0

HOPEWELL CAMPUS OWNER, LLC (61053)
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New Jersey Department of Environmental Protection
 Emission Unit/Batch Process Inventory

U 500 CHP-006-5 Two CHP-006-5 SI Engines each with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired

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	CHP-1	CHP-006-5 SI Engine with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired	Normal - Steady State	E500	CD1 (P) CD2 (S)	PT500	2-02-002-04		8,760.0		0.0	20,000.0	70.0	900.0
OS2	CHP-2	CHP-006-5 SI Engine with 19.9 MMBtu/hr Heat Input Rate, Natural Gas Fired	Normal - Steady State	E501	CD3 (P) CD4 (S)	PT501	2-02-002-04		8,760.0		0.0	20,000.0	70.0	900.0