State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit
Significant Modification

Permit Activity Number: BOP250001 **Program Interest Number: 21324**

Mailing Address	Plant Location
HOWARD HENDRA UTILITIES PLANT SUPERVISOR HACKENSACK MERIDIAN HEALTH CORP 1945 CORLIES AVE Neptune, NJ 07753	JERSEY SHORE MEDICAL CTR 1945 Corlies Ave Neptune Twp Monmouth County

Initial Operating Permit Approval Date: **December 27, 2005**

Operating Permit Approval Date: **DRAFT**

Operating Permit Expiration Date: **February 20, 2028**

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the NJ04 - Administrative Hearing Request Checklist and Tracking Form available at https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf .

If you have any questions regarding this permit approval, please call Thomas Loop at (609) 940-5444.

Approved by:

_____
Michael Mankbadi

Enclosure

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

Facility Name: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

TABLE OF CONTENTS

Section A

Facility Name: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	10.2	33.4	42.3	0.528	3.57	4.27	4.27	0.00	0.0791	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	10.2	33.4	42.3	0.528	3.57	4.27	4.27	0.00	0.0791	91,240

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Insignificant Source Operations	3.04	0.707	0.594	0.006	0.053	0.053	0.053	0.00	0.00
Non-Source Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO_2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}: Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO_2e: Carbon Dioxide equivalent
N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

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

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total CO_2e emissions for the facility.

Section A

Facility Name: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
Formaldehyde	0.0791

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

Other Air Contaminant	TPY
N/A	

[3] 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: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

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 an affirmative defense, consistent with General Provision #10 below, 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.

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. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:

    a. The provision or condition of the operating permit is based solely on State or local law; and

    b. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.

11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]

12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]

13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]

14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.

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

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

17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.

    a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.

c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.

d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.

e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.

f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.

g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.

h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.

18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.

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

Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
Minor Modifications [N.J.A.C. 7:27-22.23(e)];
Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
Renewals [N.J.A.C. 7:27-22.30(b).

20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website https://dep.nj.gov/boss/applications-and-forms/ (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: https://njdeponline.com/. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack

Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

a. 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

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

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

23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]

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

25. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of "1 lb/hr" means a limit of "1.00 lb/hr") except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of "1 ppm" means a limit of "1.0 ppm").

26. Testing every five years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

SECTION	SUBJECT ITEM	ITEM #	REF. #
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: JERSEY SHORE MEDICAL CTR
Program Interest Number: 21324
Permit Activity Number: BOP250001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

New Jersey Department of Environmental Protection

Reason for Application

Permit Modified	BOP190001
Description of Modification	Significant Modification BOP250001 The two 20.7 MMBTU/hr natural gas reciprocating engines in U21 (E2301, E2401) were replaced with 2 15.13 MMBTU/hr natural gas reciprocating engines. Annual emissions for U21 were updated as follows: VOC was changed from 7.1 TPY to 6.64 TPY PM-10 was changed from 1.51 TPY to 0.0047 TPY PM-2.5 was changed from 1.51 TPY to 0.0047 TPY TSP was changed from 1.51 TPY to 0.0047 TPY NOx and CO annual emissions remained unchanged (7.74 TPY and 25.8 TPY, respectively). The two U21 secondary control devices, CD6 and CD8 (both are oxidizers), had their minimum operating temperatures lowered from ">=750 degrees F" to ">=700 degrees F". Facility-wide CO2e was changed from 96840 TPY to 91240 TPY as a result of this change. *Note: TPY stands for "tons per year".

New Jersey Department of Environmental Protection

Facility Specific Requirements

FC

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

FC

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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 callingthe 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.
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]

New Jersey Department of Environmental Protection

Facility Specific Requirements

FC

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

FC

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

FC

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
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.
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing, remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

IS1 Indirect Fired Rooftop Handlers (8)- (< 1 MMBtu/hr max. heat input), IS2 Indirect Fired Space Heaters (2) - (< 1 MMBtu/hr max. heat input), IS5 Indirect Fired Rooftop Handlers (2) - (< 1 MMBtu/hr max. heat input), IS6 Indirect Fired Rooftop Handlers (2) - (< 1 MMBtu/hr max. heat input)

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

IS3 4,000 gallon Diesel Tank (<= 10,000 gallons, vapor pressure < 0.02 psia), IS4 8,000 gallon Diesel Tank (<= 10,000 gallons, vapor pressure < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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 the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

IS7 20,000 gallon # 2 Fuel Oil UST (>10,000 gallons, vapor pressure < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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 the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
3	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	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. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's or vessel's potential to emit each TXS and each HAP shall not exceed the reporting thresholds at N.J.A.C. 7:27-17.9(a). [N.J.A.C. 7:27-22.1]	None.	None.	None.
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank, or mixed or blended in the vessel, shall be 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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart IIII [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 8.44 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
8	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 75 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	Maximum Gross Heat Input <= 24.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.042 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 1.92 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.228 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.015 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.015 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.015 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	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)]
19	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
20	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.
21	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)]
22	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.
23	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. (NSPS Subpart IIII). [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.
24	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. (NSPS Subpart IIII). [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
25	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211 (a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.
26	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
27	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 <= 6.4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.2 g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
28	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205 (b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211 (c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
29	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (NSPS Subpart IIII). [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)
OS1 24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW) Diesel fuel, 75 hrs/yr

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 51.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 6.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.401 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.401 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.401 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart IIII [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 8.44 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
8	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 75 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	Maximum Gross Heat Input <= 24.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.042 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 1.92 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.228 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.015 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.015 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.015 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	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)]
19	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
20	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.
21	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)]
22	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.
23	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. (NSPS Subpart IIII). [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.
24	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. (NSPS Subpart IIII). [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
25	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211 (a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.
26	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
27	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 <= 6.4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.2 g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
28	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205 (b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211 (c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
29	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (NSPS Subpart IIII). [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)
OS1 24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW) Diesel fuel, 75 hrs/yr

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 51.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 6.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.401 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.401 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.401 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 6.1 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	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.
5	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
6	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/ aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input <= 10.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	VOC (Total) <= 0.189 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 2.32 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.499 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.163 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.163 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.163 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U6 BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)
OS1 Brennan Emergency Generator running on Diesel Fuel

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.68 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 46.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 9.98 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 3.26 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 3.26 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 3.26 lb/hr based on emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 4.66 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
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.
5	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
6	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/ aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
9	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input <= 7.77 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
11	VOC (Total) <= 0.14 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 1.71 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.37 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.12 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-2.5 (Total) <= 0.12 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U12 ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)
OS1 ER Emergency Generator running on Diesel Fuel

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.72 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 34.3 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	CO <= 7.38 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 2.41 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 2.41 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 2.41 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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 JJJJJJ [40 CFR Federal Rules Summary]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
		7:27-19.16(a)]		
3	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16 (e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
4	Flue Gas Recirculation Rate >= 10 % for natural gas and #2 oil firing in boiler. A minimum of 10% by volume of flue gas shall be recirculated to the combustion zone of the boiler. [N.J.A.C. 7:27-22.16 (a)]	Other: The owner/operator shall verify and adjust the Flue Gas Recirculation (FGR) rate during the annual tune-up.[N.J.A.C. 7:27-22.16(o)].	Flue Gas Recirculation Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of the percent FGR rate by volume, and any adjustment. Also, record any occurrence of the alarm being triggered from the monitor by recording the date and time of occurrence and what adjustments were made to the operation of the equipment. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 0.6 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 4.86 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 5.84 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	SO2 <= 0.308 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 1.59 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 1.59 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 1.59 tons/yr based on the emissions limit of PM-10. [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)]
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. [40 CFR 60.4(b)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
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 any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
15	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)]
16	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
17	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.
18	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15 (d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
19	Sulfur Content in Fuel <= 0.5 weight % for an affected facility that combusts oil. (NSPS Subpart Dc). [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)]
20	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.
21	The permittee shall comply with the applicable General Provisions of MACT Subpart A according to Table 8 to MACT Subpart JJJJJJ. (MACT Subpart JJJJJJ). [40 CFR 63.11235]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
22	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. (MACT Subpart JJJJJJ). [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.The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.
23	The permittee shall conduct an initial tune-up no later than March 21, 2014 and subsequent 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:(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(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.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. (MACT Subpart JJJJJJ). [40 CFR 63.11214(b)]	Monitored by periodic emission monitoring once initially and 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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and 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: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. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (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.(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.(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)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
24	The permittee must have a one-time energy assessment performed by a qualified energy assessor, no later than March 21, 2014. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR 63 MACT JJJJJJ or a facility operating under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least 1 year between January 1, 2008 and March 21, 2014, satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. The energy assessment must include all the items listed in Table 2 to 40 CFR 63 MACT JJJJJJ with extent of the evaluation for items (1) to (4) in Table 2 appropriate for the on-site technical hours as specified in the definition of energy assessment in 40 CFR 63.11237. (MACT Subpart JJJJJJ). [40 CFR 63.11214(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee must keep a copy of the energy assessment report for a period of 5 years following the date of each recorded action. The records must be in a form suitable and readily available for expeditious review. In accordance with 40 CFR 63.11225(d), the records must be kept on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The records may be kept off site for the remaining 3 years. [40 CFR 63.11225(c)(2)(iii)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility has had an energy assessment performed according to 40 CFR 63.11214(c)" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]
25	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014. (MACT Subpart JJJJJJ). [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)]	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.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]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
26	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: (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." (MACT Subpart JJJJJJ). [40 CFR 63.11225(b)]	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.
27	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. (MACT Subpart JJJJJJ). [40 CFR 63.11225(g)]	None.	None.	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS1 Boiler #CUP-B1 running on Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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	NOx (Total) <= 0.12 lb/MMBTU . [N.J.A.C. 7:27-19.7 (i)1]	None.	None.	None.
3	Particulate Emissions <= 10.1 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Maximum Gross Heat Input <= 40.82 MMBTU/hr (HHV). Fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
5	Natural Gas Usage <= 270 MMft^3 per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The monitor 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)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. . [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 0.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.47 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.08 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-2.5 (Total) <= 0.33 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS2 Boiler #CUP-B1 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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)]	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. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following:(1) Date and time of inspection;(2) Emission Point number;(3) Operational status of equipment:(4) Observed results and conclusions:(5) Description of corrective action taken if needed;(6) Date and time opacity problem was solved, if applicable;(7) N.J.A.C. 7:27B-2 results if conducted; and(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulate Emissions <= 10.1 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	NOx (Total) <= 0.12 lb/MMBTU. [N.J.A.C. 7:27-19.7(i) 1]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U14 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)
OS2 Boiler #CUP-B1 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Maximum Gross Heat Input <= 40.82 MMBTU/hr (HHV). Fuel limited to #2 fuel oil. [N.J.A.C. 7:27-22.16 (a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
7	Fuel Oil Usage <= 325,000 gallons per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. The monitor 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)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. . [N.J.A.C. 7:27-22.16(o)]	None.
8	VOC (Total) <= 0.082 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 3.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 1.47 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO2 <= 0.062 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.82 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.82 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-2.5 (Total) <= 0.82 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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 JJJJJJ [40 CFR Federal Rules Summary]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
		7:27-19.16(a)]		
3	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16 (e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
4	Flue Gas Recirculation Rate >= 10 % for natural gas and #2 oil firing in boiler. A minimum of 10% by volume of flue gas shall be recirculated to the combustion zone of the boiler. [N.J.A.C. 7:27-22.16 (a)]	Other: The owner/operator shall verify and adjust the Flue Gas Recirculation (FGR) rate during the annual tune-up.[N.J.A.C. 7:27-22.16(o)].	Flue Gas Recirculation Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record the percent FGR rate by volume, and any adjustment. Also, record any occurrence of the alarm being triggered from the monitor by recording the date and time of occurrence and what adjustments were made to the operation of the equipment. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 0.41 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 4.95 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 4.49 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.35 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.05 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 1.05 tons/yr based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	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)]
12	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
13	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A). [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
14	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. [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)]
15	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
16	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.
17	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (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)]
18	SO2 <= 0.5 lb/MMBTU heat input from oil for an affected facility that combusts oil. (NSPS Subpart Dc). [40 CFR 60.42c(d)]	SO2: Monitored by review of fuel delivery records once per bulk fuel shipment. [40 CFR 60.44c(h)]	SO2: 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 owner/operator certification that the fuel supplier's certifications are representative of all the fuel combusted during the reporting period. [40 CFR 60.48c(e)(11)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
19	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. [40 CFR 60.43c(c)]	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), (ii), and (iii), if no visible emissions are observed, or the maximum opacity is less than or equal to 5 percent, or greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 performance test shall be completed, depending on the results of the most recent test, within either 12 calendar months, 6 calendar months, or 3 calendar months, respectively, or within 45 days of the next day that fuel oil is combusted, whichever is later. Per (a)(1)(iv), if the maximum opacity is greater than 10 percent, a subsequent Method 9 test shall be completed within 45 calendar days from the date of the most recent test. Per 40 CFR 60.47c(a)2 and (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 either Method 22 on operating days the boiler fires fuel oil for which an opacity standard is applicable or by a digital opacity compliance system according to a site-specific monitoring plan approved by the EPA Administrator. [40 CFR 60.47c(a)]	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)]	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
20	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.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.48c(a)]
21	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f), fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels shall record and maintain records of the amount of each fuel combusted during each calendar month. (NSPS Subpart Dc). [40 CFR 60.48c(g)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(2)]	None.
22	The permittee shall submit to the Administrator all reports required under 40 CFR 60.40, et. seq. each six-month period. (NSPS Subpart Dc). [40 CFR 60.48c(j)]	None.	None.	Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR 60.48c(j)]
23	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. (MACT Subpart JJJJJJ). [40 CFR 63.11201(b)]	None.	None.	None.
24	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. (MACT Subpart JJJJJJ). [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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
25	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. 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. (MACT Subpart JJJJJJ). [40 CFR 63.11210(f)]	Monitored by review of fuel delivery records each month during operation. [40 CFR 63.11210(f)]	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)]	None.
26	The permittee shall conduct tune-up biennially. The first biennial tune-up must be no later than 25 months after the boiler initial startup. 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:(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(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.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. (MACT Subpart JJJJJJ). [40 CFR 63.11214(b)]	Monitored by periodic emission monitoring once initially and 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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and 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 tune-up: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. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (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.(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.(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)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
27	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014 or within 120 days after startup of new source. (MACT Subpart JJJJJJ). [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)]	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.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]
28	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: (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." (MACT Subpart JJJJJJ). [40 CFR 63.11225(b)]	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
29	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. (MACT Subpart JJJJJJ). [40 CFR 63.11225(g)]	None.	None.	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS1 Boiler #CUP-B3 running on Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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	Particulate Emissions <= 10 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	NOx (Total) <= 0.12 lb/MMBTU . [N.J.A.C. 7:27-19.7 (i)1]	None.	None.	None.
4	Maximum Gross Heat Input <= 40.35 MMBTU/hr (HHV). Fuel limited to natural gas. [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.
5	Natural Gas Usage <= 215 MMft^3 per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The monitor 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)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 0.145 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 1.41 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.51 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.077 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.3 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) <= 0.3 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS2 Boiler #CUP-B3 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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)]	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. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following:(1) Date and time of inspection;(2) Emission Point number;(3) Operational status of equipment:(4) Observed results and conclusions:(5) Description of corrective action taken if needed;(6) Date and time opacity problem was solved, if applicable;(7) N.J.A.C. 7:27B-2 results if conducted; and(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulate Emissions <= 9.84 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.
3	NOx (Total) <= 0.12 lb/MMBTU . [N.J.A.C. 7:27-19.7 (i)1]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U19 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)
OS2 Boiler #CUP-B3 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Maximum Gross Heat Input <= 38.38 MMBTU/hr (HHV). Fuel limited to #2 fuel oil. [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.
7	Fuel Oil Usage <= 140,000 gallons per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. The monitor 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)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [40 CFR 60.48c(g)(2)]	None.
8	VOC (Total) <= 0.054 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 4.38 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 1.5 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.55 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.91 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-2.5 (Total) <= 0.91 lb/hr based on manufacturer emissions data. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
		7:27-19.16(a)]		
2	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.
3	Flue Gas Recirculation Rate >= 10 % for natural gas and No. 2 oil firing in boiler. A minimum of 10 % by volume of flue gas shall be recirculated to the combustion zone of the boiler. [N.J.A.C. 7:27-22.16 (e)]	Flue Gas Recirculation Rate: Monitored by ner or operator shall verify and adjust the Flue Gas Recirculation rate during the annual tune-up.[N.J.A.C. 7:27-22.16(o)].	Other: Record keeping by manual logging of the percent Flue gas recirculation by volume, and any adjustment, if any in a logbook or electronic storage in readily accessible database. The records must be kept annually. Also, record any occurrence of the alarm being triggered from the monitor by recording the date and time of occurrence and what adjustments were made to the operation of the equipment.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 2.05 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 6.23 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 4.72 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.22 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 1.3 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 1.3 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) <= 1.3 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Region II Director, Air and Waste Management Division, US Environmental Protection Agency, 26 Federal Plaza (Foley Square), New York, NY 10007. [40 CFR 60.4(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
12	Submit a notification of any physical or operational change to the boiler which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event. This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. [40 CFR 60.7(a)(4)]
13	Maintain records of the occurrence and duration of equipment startups, shutdowns, or malfunction. [40 CFR 60.7(b)]	None.	Other: Manual logging of occurences specified in 40 CFR 60.7(b) in readily available facility records or computer files. Upon occurrence of event. Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.[40 CFR 60.7 (b)].	None.
14	Maintain records of all measurements, adjustments, performance tests, etc. [40 CFR 60.7(f)]	None.	Other: Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection.[40 CFR 60.7(f)].	None.
15	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.
16	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
17	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.
18	The permittee shall not 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.
19	Sulfur Content in Fuel <= 0.5 weight %. [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 owner/operator certification that the fuel supplier's certifications are representative of all the fuel combusted during the reporting period. [40 CFR 60.48c(d)]
20	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
21	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.The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.
22	The permittee shall conduct an initial tune-up no later than March 21, 2014 and subsequent 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:(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).(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.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)]	Monitored by periodic emission monitoring once initially and 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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and 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: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. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (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.(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.(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)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
23	The permittee must have a one-time energy assessment performed by a qualified energy assessor, no later than March 21, 2014. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR 63 MACT JJJJJJ satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. The energy assessment must include the following:(1) A visual inspection of the boiler system, (2) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints,(3) Inventory of major systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,(4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,(5) A list of major energy conservation measures that are within the facility's control,(6) A list of the energy savings potential of the energy conservation measures identified,(7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments. [40 CFR 63.11214(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee must keep a copy of the energy assessment report for a period of 5 years following the date of each recorded action. The records must be in a form suitable and readily available for expeditious review. In accordance with 40 CFR 63.11225(d), the records must be kept on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The records may be kept off site for the remaining 3 years. [40 CFR 63.11225(c)(2)(iii)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility has had an energy assessment performed according to 40 CFR 63.11214(c)" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]
24	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014. [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)]	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.The permittee may use instructions and the forms provided on the EPA website http://www.epa.gov/ttn/ atw/boiler/ boilerpg.html [40 CFR 63.11225]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
25	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: (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."(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)]	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.
26	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 switch to 100 percent natural gas. The notice must be provided within 30 days of the change. [40 CFR 63.11225(g)]	None.	None.	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)]
27	The permittee shall comply with the applicable General Provisions of MACT Subpart A according to Table 8 to MACT Subpart JJJJJJ. [40 CFR 63.11235]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS1 Boiler #CUP-B2 running on Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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	Particulate Emissions <= 10.08 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.
3	Maximum Gross Heat Input <= 40.82 MMBTU/hr (HHV). Fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
4	Natural Gas Usage <= 200,000 MMft^3 per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously The monitor 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)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 0.65 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 1.44 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	CO <= 1.49 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	TSP <= 0.41 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-10 (Total) <= 0.41 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	PM-2.5 (Total) <= 0.41 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS2 Boiler #CUP-B2 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping 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)]	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. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:(1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. Record and retain the following:(1) Date and time of inspection;(2) Emission Point number;(3) Operational status of equipment:(4) Observed results and conclusions:(5) Description of corrective action taken if needed;(6) Date and time opacity problem was solved, if applicable;(7) N.J.A.C. 7:27B-2 results if conducted; and(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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

U20 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)
OS2 Boiler #CUP-B2 running on Fuel Oil #2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	Particulate Emissions <= 10.08 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.
5	Maximum Gross Heat Input <= 40.82 MMBTU/hr (HHV). Fuel limited to #2 fuel oil. [N.J.A.C. 7:27-22.16 (a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Fuel Oil Usage <= 200,000 gallons per any consecutive 12-month period. [N.J.A.C. 7:27-22.16 (a)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously The monitor 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)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 1.23 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) <= 7.57 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 2.86 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 0.062 lb/hr based on AP-42 emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.8 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	PM-10 (Total) <= 0.8 lb/hr based on Cleaver-Brooks specified emission factors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	PM-2.5 (Total) <= 0.8 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
CD5 SCR, CD7 SCR

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Operating Control Efficiency >= 90 % of NOx (control efficiency from combined use of selective catalytic reduction and oxidation catalysis). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Urea Consumption rate is greater than 0.2 gal/hr and less than or equal to 3.0 gal/hr of 40 % water solution. [N.J.A.C. 7:27-22.16(a)]	Monitored by material feed/flow monitoring continuously, based on 1 minute intervals. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27-22.16 (o)]	None.
3	Temperature at Catalyst Bed >= 500 and Temperature at Catalyst Bed <= 1,000 degrees F except during startup. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously, based on a 1 hour block average. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Temperature at Catalyst Bed: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27-22.16(e)]	None.
4	The catalyst array(s) shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated through portable emission monitoring. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	The SCR shall be operated at all times that the engine is operating. Reagent shall be injected at all times that the engine is operating, except start-up or shutdown periods as defined in this permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
CD6 O2, CD8 O2

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Operating Control Efficiency >= 90 % of NOx (control efficiency from combined use of selective catalytic reduction and oxidation catalysis). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Operating Temperature >= 700 and <= 1200.0 degrees F. [N.J.A.C. 7:27-22.16(a)]	Operating Temperature: Monitored by temperature instrument continuously, based on a 1 hour block average. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Operating Temperature: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously. All records created in a calendar year shall be maintained on site for five additional calendar years, and made available to the Department for review, upon request. [N.J.A.C. 7:27-22.16(e)]	None.
3	The air/fuel controller and the 3-way catalyst shall be operated at all times that the engine is operating. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	The catalyst array(s) shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated through portable emission monitoring. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart JJJJ [40 CFR Federal Rules Summary]	None.	None.	None.
2	STACK TESTING SUMMARY The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for CO, NOx, VOC, Formaldehyde and Ammonia Slip as specified in the compliance plan for OS1 and OS2. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. 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

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
3	STACK TESTING SUMMARYThe permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for VOC, NOx, CO, formaldehyde, and ammonia slip as specified in the compliance plan for OS1, and for VOC, NOx, CO, formaldehyde, and ammonia slip as specified in the compliance plan for OS2. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]	Other: The stack test must be conducted within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.Pursuant to N.J.A.C. 7:27-16.23(c) and 19.15(c), the initial stack test to demonstrate compliance with VOC/NOx RACT standards shall be conducted within 180 days from the date on which source operation commences operation. If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
4	PERIODIC STACK TESTING SUMMARY The permittee shall conduct a periodic stack test required by 40 CFR 60 Subpart JJJJ using a protocol approved by the Department to demonstrate compliance with emission limits for CO, NOx, VOC as specified in the compliance plan for OS1 and OS2. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16 (o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: 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)]
5	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
6	The permittee shall perform Periodic Monitoring Procedure (PMP) tests to ensure the reciprocating engine(s) are operated and maintained in a manner consistent with good air pollution control practices for minimizing emissions. [N.J.A.C. 7:27-22.16(a)]	Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year The minimum duration between Periodic Monitoring Procedure (PMP) tests shall be 45 calendar days. The PMP frequency was reduced from the Initial Frequency of monthly, with a minimum duration of 15 calendar days between PMP tests. PMP frequency can only be reduced once. There shall be no further frequency reductions allowed. PMP tests are only required if the equipment operated during the monitoring period. The permittee shall measure the concentrations in the effluent stream of NOx, CO and O2 and convert them to units of pounds per hour (lb/hr) in accordance with Technical Manual 1005. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The permittee shall maintain the following records: 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. If the equipment did not operate during a monitoring period, record "Did not operate" for that period. [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Other If either of the NOx or CO PMP test results exceed the lb/hr or g/bhp-hr permit limits ("exceedance"), the frequency of PMP testing immediately reverts back to the Initial Frequency, and the permittee shall: 1. Take corrective action or cease operation within 15 minutes of the exceedance. 2. Notify the Department within 24 hours of the exceedance by calling the Environmental Action Hotline at (877) 927-6337. 3. Submit a report within 30 days of the exceedance for all periodic emission monitoring performed in the 12 months prior to this exceedance with the items listed in 1-6 of the Recordkeeping Requirement to the Central Regional Enforcement Office, Mail Code 22-03A, 401 East State Street, PO Box 420, Trenton, NJ 08625-0420. 4. Retest the equipment within 24 hours of completing corrective action or restarting operation, whichever is sooner. 5. Repeat the steps above until the exceedance has been eliminated or the equipment is removed from service; and 6. Submit a report within 30 days of completing corrective action (Step 5) for the test that showed the exceedance and each subsequent test performed following corrective action with the items listed in 1-6 of the Recordkeeping Requirement to the Central Regional Enforcement Office; and 7. Submit a permit modification application within 30 days of the exceedance to change the PMP testing back to the Initial Frequency. [N.J.A.C. 7:27-22.16(o)]
7	The permittee shall install, operate and maintain device(s) to continuously monitor and record the air-to-fuel ratio. [N.J.A.C. 7:27-22.16(a)]	Monitored by air-to-fuel monitoring device continuously, based on 5 minute intervals. 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)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
8	VOC (Total) <= 6.64 tons/yr based on maximum permitted fuel usage limits. This limit includes formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 7.74 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 25.8 tons/yr based on maximum permitted fuel usage limits. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Formaldehyde <= 0.0271 tons/yr based on maximum permitted fuel usage limits. [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. (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)]
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. (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)]
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 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [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 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
16	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/ maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f) (1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
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. (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. [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)]
18	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)]
19	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
20	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.
21	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.
22	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.
23	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.
24	The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40 CFR 60.11(b)]	Monitored by visual determination once initially, based on 6 minute blocks. Testing shall be conducted using Reference Method 9 in Appendix A of NSPS. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-min averages) for the performance test. [40 CFR 60.11 (b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations. [40 CFR 60.11(e)(2)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of Method 9 observation data to the Administrator. [40 CFR 60.11(e)(2)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
25	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.
26	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.
27	Compliance with all applicable standards must be achieved within 180 days of completion of any physical or operational change subject to the control measures specified in 40 CFR Part 60.14(a). [40 CFR 60.14(g)]	None.	None.	None.
28	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (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)]
29	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
30	The owner or operator of a new non-certified SI ICE natural gas or lean burn LPG with a maximum engine power of >= 1350 HP (>= 1010 kW) manufactured after July 1, 2010 must meet the emission standards for engines HP >=500 summarized in Table 1 in 40 CFR 60 Subpart JJJJ as follows: NOx <= 1.0 g/HP-hr (1.3 g/kW-hr), CO <= 2.0 g/HP-hr (2.7 g/kW-hr), VOC <= 0.7 g/HP-hr (1 g/kW-hr) or NOx <= 82 ppmvd @15% O2, CO <= 270 ppmvd @15% O2, VOC <= 60 ppmvd @15% O2. [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)]
31	The owner or operator of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60 Subpart JJJJ. [40 CFR 60].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
32	The owner or operator of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. (NSPS Subpart JJJJ) [40 CFR 60.4234]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60 Subpart JJJJ. [40 CFR 60].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
33	The owner or operator may not install stationary SI ICE that do not meet the applicable requirements in 40 CFR 60.4233 after the deadline established in 40 CFR 60.4236(a) and (b), except for engines that were removed from one existing location and reinstalled at a new location. [40 CFR 60.4236]	Other: The owner or operator must demonstrate compliance as prescribed in 40 CFR 60 Subpart JJJJ. [40 CFR 60].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
34	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
35	The permittee shall conduct a comprehensive stack test for each Cogen. engine (E2301 and E2401) at emission point PT2004 and PT2005 every 8,760 hours of operation or 3 years for each engine, which ever comes first, to demonstrate compliance with the VOC, NOx, and CO emission limits. [40 CFR 60.4243(b)(2)(ii)]	Monitored by stack emission testing at the approved frequency, based on the average of three 1-hour tests. 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. An initial performance test must be conducted within 1 year of engine startup. 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)(ii)]	Recordkeeping by stack test results upon occurrence of event. The owner or operator of must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol or request the use of a prior approved protocol to the EMS at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 5,840 hours or 2 years whichever comes first prior to the date of the required stack tests. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 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)]
36	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. (NSPS Subpart JJJJ) [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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
37	The owner or operator of the modified or reconstructed SI ICE that must comply with the emission standards specified in 40 CFR 60.4233(f), must demonstrate compliance according to 40 CFR 60.4243(b)(2)(i) for SI ICE with a maximum engine power <= 500 HP and 40 CFR 60.4243(b)(2)(ii) for SI ICE with a maximum engine power >500 HP. [40 CFR 60.4243(c)]	Other: The owner or operator must demonstrate compliance according to 40 CFR 60.4243(b)(2)(i) for SI ICE with a maximum engine power <= 500 HP and 40 CFR 60.4243(b)(2)(ii) for SI ICE with a maximum engine power >500 HP. [40 CFR 60.4243(c)].	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.
38	The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; (3) for a certified engine, keep documentation from the manufacturer that the engine is certified; (4) if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)].	None.
39	The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. (NSPS Subpart JJJJ) [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; (3) for a certified engine, keep documentation from the manufacturer that the engine is certified; (4) if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
40	The owner or operator of SI ICE engine with a maximum engine power >= 500 HP (>=375 kW) that have not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231 must submit an initial notification as required in 40 CFR 60.7(a)(1). [40 CFR 60.4245(c)]	None.	None.	Submit notification: Once initially The owner or operator must submit an initial notification as required in 40 CFR 60.7(a)(1) to EPA Region 2 and Regional Enforcement Office of NJDEP. The notification must include the information outlined in 40 CFR 60.4245(c)(1) through (5): (1) Name and address of the owner or operator; (2) The address of the affected source; (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; (4) Emission control equipment; and (5) Fuel used. [40 CFR 60.4245(c)]
41	The owner or operator of SI ICE engine shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. (NSPS Subpart JJJJ) [40 CFR 60.4246]	None.	None.	None.
42	The owner or operator of SI ICE engine shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]	None.	None.	None.
43	The owner or operator of SI ICE engine shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. (NSPS Subpart JJJJ) [40 CFR 60.4246]	None.	None.	None.
44	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (NSPS Subpart JJJJ) [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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS1 COGEN CUP-C1
NATURAL GAS, OS2 COGEN CUP-C2
NATURAL GAS

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.9 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(e)2]	None.	None.	None.
2	CO <= 500 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.10 (b)]	None.	None.	None.
3	Particulate Emissions <= 7.03 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Ammonia Slip <= 10 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	Ammonia Slip: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia Slip: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]
5	Maximum Gross Heat Input <= 15.13 MMBTU/hr (HHV). Fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	Natural Gas Usage <= 133.71 MMft^3 per engine, per any consecutive 12-month period. [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 manual logging of parameter or storing data in a computer data system each month during operation. Fuel use for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 0.84 lb/hr , based on manufactuer's specification. This limit includes formaldehyde emissions. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]
8	VOC (Total) <= 33 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS1 COGEN CUP-C1
NATURAL GAS, OS2 COGEN CUP-C2
NATURAL GAS

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
9	VOC (Total) <= 0.15 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 50 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16 (a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16 (o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 2.94 lb/hr , based on manufacturer's specification. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]
12	CO <= 0.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]
13	NOx (Total) <= 0.15 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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	NOx (Total) <= 0.88 lb/hr , based on manufacturer's specification. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U21 Cogeneration Unit #CUP-C1 and #CUP-C2
OS1 COGEN CUP-C1
NATURAL GAS, OS2 COGEN CUP-C2
NATURAL GAS

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
15	NOx (Total) <= 10 ppmvd @ 15% O2. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]
16	TSP < 0.05 lb/hr (below reporting threshold). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Formaldehyde <= 0.007 lb/hr , based on control device stack test results. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart IIII [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 0.71 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
8	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	Maximum Gross Heat Input <= 1.18 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.006 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 0.07 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.012 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.005 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.005 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.005 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	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)]
19	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
20	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A). [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
21	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (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. [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)]
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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
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.
24	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (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)]
25	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 + NOx <= 7.8 g/HP-hr, CO <= 3.7 g/HP-hr, PM <= 0.60 g/HP-hr. (NSPS Subpart IIII). [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.
26	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII that use diesel fuel must use diesel fuel that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. (NSPS Subpart IIII). [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis.. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
27	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. (NSPS Subpart IIII). [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.
28	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. (NSPS Subpart IIII). [40 CFR 60.4211(f)(2i)]	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.
29	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (NSPS Subpart IIII). [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

New Jersey Department of Environmental Protection

Facility Specific Requirements

U22 Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS1 FIRE PUMP CUP-FP1 DIESEL

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.39 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.24 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.09 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.09 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart IIII [40 CFR Federal Rules Summary]	None.	None.	None.
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 7.94 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16 (o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
7	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: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; or3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously.In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
8	This emergency generator shall not be used:1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	Maximum Gross Heat Input <= 19.7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.036 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 1.74 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.094 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	TSP <= 0.009 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	PM-10 (Total) <= 0.009 tons/yr. Annual emission limit based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-2.5 (Total) <= 0.009 tons/yr. Annual emission limit based on the emission limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	The owner and operator of this engine may only use diesel fuel that meets the requirements of 40 CFR 80.510(b) in this engine: (1) 15 ppm maximum sulfur content; (2) Cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or (ii) A maximum aromatic content of 35 volume percent. (NSPS Subpart IIII) [40 CFR 60.4207(b)]	Other: Review of invoices/bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading per delivery showing: (1) Fuel oil sulfur content, and; (2) Minimum Cetane index or maximum aromatic content. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
19	The owner or operator must operate and maintain the stationary compression ignition (CI) internal combustion engine (ICE) according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners or operators may only change those settings that are permitted by the manufacturer. You must also meet the requirments of 40 CFR parts 89, 94, and/or 1068, as they apply to you.(NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: Maintain readily accessible records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. [40 CFR 60.4211(a)].	None.
20	Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided 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. There is no time limit on the use of emergency stationary ICE in emergency situations. 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. For owners and operators of emergency engines meeting the standards under 40 CFR 60.4205 but not 40 CFR 60.4204, any operation other than emergency operation, and maintenance and testing as permitted in 40 CFR Subpart IIII, is prohibited (NSPS Subpart IIII). [40 CFR 60.4211(e)]	Monitored by hour/time monitor continuously. The owner or operator shall install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Other: The owner or operator shall maintain on site and record in a logbook or computer data system each time the emergency generator is specifically operated for testing or maintenance, the following information: 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.[40 CFR 60.4214 (b)].	None.
21	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)]
22	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)]

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
23	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A). [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
24	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (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. [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)]
25	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.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
26	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.
27	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (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)]
28	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 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 <= 6.4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.20 g/kW-hr. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.
29	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. (NSPS Subpart IIII). [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. . [N.J.A.C. 7:27-22.16 (o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS SUMMARY

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

New Jersey Department of Environmental Protection

Facility Specific Requirements

New Jersey Department of Environmental Protection

Facility Specific Requirements

U23 Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder
OS1 Emergency Generator #CUP-G1 Diesel

Ref.#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.71 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 34.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.88 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.17 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.17 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection

Facility Profile (General)

Facility Information

Facility Name:	JERSEY SHORE MEDICAL CTR
Street Address:	1945 CORLIES AVE 1945 CORLIES AVE NEPTUNE NJ 07753
Mailing Address:	1945 CORLIES AVE 1945 CORLIES AVE NEPTUNE NJ 07753
County:	Monmouth
Location Description	corlies avenue a.k.a. route 33.

X-Coordinate	620577
Y-Coordinate	500965
Units	Feet
Datum	Unknown
Coord Source Org	DEP-GIS
Coord Source Type	Other/Unknown
Primary SIC	8062
Secondary SIC	
NAICS	621491

Contact Type: Air Permit Information Contact

New Jersey Department of Environmental Protection

Facility Profile (General)

Organization	Jersey Shore University Medical Center
Name	Howard Hendra
Title	Director, Facilities
Phone	(732) 796-4846
Fax Number	(732) 776-4815
E-mail Address	howard.hendra@hmhn.org

Organization Type	Hospital
NJ EIN	31556200000

Mailing Addres
1945 Corlies Ave. Neptune NJ 07753

Contact Type: Consultant

Organization	Chapman, Inc.
Name	Matthew Mee
Title	Principal Scientist
Phone	(201) 341-6285
Fax Number	() -
E-mail Address	mmee@chapmanes.com

Organization Type	LLC
NJ EIN	

Mailing Addres
NJ

Contact Type: Fees/Billing Contact

Organization	Jersey Shore University Medical Center
Name	Howard Hendra
Title	Director, Facilities
Phone	(732) 796-4846
Fax Number	(732) 776-4815
E-mail Address	howard.hendra@hmhn.org

Organization Type	Hospital
NJ EIN	31556200000

Mailing Addres
1945 Corlies Ave. Neptune NJ 07753

Contact Type: Operator

Organization	Jersey Shore University Medical Center
Name	Howard Hendra
Title	Director, Facilities
Phone	(732) 796-4846
Fax Number	(732) 776-4815
E-mail Address	howard.hendra@hmhn.org

Organization Type	Hospital
NJ EIN	31556200000

Mailing Addres
1945 Corlies Ave. Neptune NJ 07753

New Jersey Department of Environmental Protection

Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization	Hackensack Meridian Health Corporation
Name	Howard Hendra
Title	Director, Facilities
Phone	(732) 796-4846
Fax Number	() -
E-mail Address	howard.hendra@hmhn.org

Organization Type	Hospital
NJ EIN	31556200000

Mailing Addres
1945 Corlies Ave. Neptune NJ 07753

Contact Type: Responsible Official

Organization	Jersey Shore University Medical Center
Name	Howard Hendra
Title	Director, Facilities
Phone	(732) 796-4846
Fax Number	(732) 776-4815
E-mail Address	howard.hendra@hmhn.org

Organization Type	Hospital
NJ EIN	31556200000

Mailing Addres
1945 Corlies Ave. Neptune NJ 07753

New Jersey Department of Environmental Protection

Insignificant Source Emission

IS NJID	Source/Group	Equipment Type	Location	Estimate of Emissions (tpy)								
				VOC Total	NOx	CO	SO2	TSP	PM-10I	Pb	HAPS Total	Other Total
IS1	Indirect Fired Rooftop Handlers (8)- (< 1 MMBtu/hr max. heat input)	Fuel Combustion Equipment (Other)	Child Care Center	0.023	0.412	0.346	0.003	0.031	0.031	0.000	0.000	0.000
IS2	Indirect Fired Space Heaters (2) - (< 1 MMBtu/hr max. heat input)	Fuel Combustion Equipment (Other)	Main Building	0.005	0.090	0.076	0.001	0.007	0.007	0.000	0.000	0.000
IS3	4,000 gallon Diesel Tank (<= 10,000 gallons, vapor pressure < 0.02 psia)	Storage Vessel	Main Building	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IS4	8,000 gallon Diesel Tank (<= 10,000 gallons, vapor pressure < 0.02 psia)	Storage Vessel	Main Building	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IS5	Indirect Fired Rooftop Handlers (2) - (< 1 MMBtu/hr max. heat input)	Fuel Combustion Equipment (Other)	Main Building	0.006	0.107	0.090	0.001	0.008	0.008	0.000	0.000	0.000
IS6	Indirect Fired Rooftop Handlers (2) - (< 1 MMBtu/hr max. heat input)	Fuel Combustion Equipment (Other)	Child Care Center	0.005	0.098	0.082	0.001	0.007	0.007	0.000	0.000	0.000
IS7	20,000 gallon # 2 Fuel Oil UST (>10,000 gallons, vapor pressure < 0.02 psia)	Storage Vessel	North of Boiler Plant	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
			Total:	**3.039**	**0.707**	**0.594**	**0.006**	**0.053**	**0.053**	**0.000**	**0.000**	**0.000**

New Jersey Department of Environmental Protection

Equipment Inventory

NJID	Facility Designation	Equipment Description	Equipment Type	Certification Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set NJID
E3	NewCAT-EG#1	24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW)	Emergency Generator	BOP220001	7/26/2022			
E4	NewCAT-EG#2	24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW)	Emergency Generator	BOP210001	7/26/2022			
E801	BRENNAN GEN	BRENNAN EMERGENCY GENERATOR	Emergency Generator	PCP070001	2/1/1990	No		
E901	ER GEN	ER EMERGENCY GENERATOR	Emergency Generator	PCP070001	4/1/1995	No		
E1504	Boiler CUPB2	Boiler #CUP-B2 combination oil and natural gas burner	Boiler	PCP070001	11/1/2004	No		
E2001	Boiler CUPB1	Boiler #CUP-B1 combination oil and natural gas burner	Boiler		3/1/2008	No		
E2101	GEN CUPG1	CUP-G1 EMERGENCY GENERATOR	Emergency Generator		3/1/2008	No		
E2201	FIREPUMP CUP	CUP-F1 FIRE PUMP	Emergency Generator		3/1/2008	No		
E2301	COGEN CUPC1	CUP-C1 COGEN	Stationary Reciprocating Engine		6/1/2025	No		
E2401	COGEN CUPC2	CUP-C2 COGEN	Stationary Reciprocating Engine		6/1/2025	No		
E3001	Boiler CUPB3	Boiler #CUP-B3 combination oil and natural gas burner	Boiler		6/1/2019	No		

21324 JERSEY SHORE MEDICAL CTR BOP250001 E3 (Emergency Generator)
Print Date: 3/25/2025

Make:	Caterpillar
Manufacturer:	Caterpillar (2021)
Model:	3516C - 2466 (2021) Model Year
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	24.40
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:	2500 kW 3634 HP Displacement per cylinder: 4.88 L

21324 JERSEY SHORE MEDICAL CTR BOP250001 E4 (Emergency Generator)
Print Date: 3/25/2025

Make:	Caterpillar
Manufacturer:	Caterpillar (2021)
Model:	3516C - 2467 (2021) Model Year
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	24.40
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:	2500 kW 3634 HP Displacement per cylinder: 4.88 L

21324 JERSEY SHORE MEDICAL CTR BOP250001 E801 (Emergency Generator)
Print Date: 3/25/2025

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	3508 STD
Maximum Rated Gross Heat Input (MMBtu/hr):	10.508
Will the equipment be used in excess of 500 hours per year?	no
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Brennan EG

21324 JERSEY SHORE MEDICAL CTR BOP250001 E901 (Emergency Generator)
Print Date: 3/25/2025

Make:	Ford
Manufacturer:	Detroit Diesel
Model:	750DS60
Maximum Rated Gross Heat Input (MMBtu/hr):	7.7674
Will the equipment be used in excess of 500 hours per year?	no
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	ER eg

21324 JERSEY SHORE MEDICAL CTR BOP250001 E1504 (Boiler)
Print Date: 3/25/2025

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CBL200-1000
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	40.82
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	34,500.00
Fuel Firing Method:	Dual fuel engines
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? No

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

Comments: Formerly Boiler #3A, renamed CUP-B-2

21324 JERSEY SHORE MEDICAL CTR BOP250001 E2001 (Boiler)
Print Date: 3/25/2025

Make:	CLEAVER BROOKS
Manufacturer:	CLEAVER BROOKS
Model:	CBL-200-1000-150
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	40.82
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	34,500.00
Fuel Firing Method:	Dual fuel engines
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 (%):	20.00

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:	Boiler CUP-B-1. MFG date 2007

21324 JERSEY SHORE MEDICAL CTR BOP250001 E2101 (Emergency Generator)
Print Date: 3/25/2025

Make:	CATERPILLAR
Manufacturer:	CATERPILLAR
Model:	3516C
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	19.72
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:	2000 KW. MFG DATE 11/13/07

21324 JERSEY SHORE MEDICAL CTR BOP250001 E2201 (Emergency Generator)
Print Date: 3/25/2025

Make:	Fire Pump
Manufacturer:	Aurora 4-491-14C
Model:	Engine Cummins CFP59-F25
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.18
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:	Lean Burn, 4-Stroke, Fire Pump for Sprinkler System, 148 BHP, 110 kW, 17.4 Compression Ratio, 2350 RPM, 878 engine exhaust temp., MFG Date 2/8/08

21324 JERSEY SHORE MEDICAL CTR BOP250001 E2301 (Stationary Reciprocating Engine)
Print Date: 3/25/2025

Make:	Caterpillar Power Generating System
Manufacturer:	Caterpillar
Model:	3516
Maximum Rated Gross Heat Input (MMBtu/hr):	15.31
Class:	Lean Burn
Description:	
Duty:	Base Loaded
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	4-stroke
Power Output (BHP):	2636
Electric Output(KW):	1990
Compression Ratio:	11.3
Ignition Type:	Spark
Description:	
Engine Speed (RPM):	1800
Engine Exhaust Temperature (°F):	952
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	1.78
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	5734
Output Type:	Cogeneration
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	(●) Yes ( ) No
Is the Engine Using an Aftercooler?	(●) Yes ( ) No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☑	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☑		

Description:	SCR/Oxidation Catalyst

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:	MFG DATE 9/27/07		

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

21324 JERSEY SHORE MEDICAL CTR BOP250001 E2401 (Stationary Reciprocating Engine)
Print Date: 3/25/2025

Make:	Caterpillar Power Generating System
Manufacturer:	Caterpillar
Model:	3516
Maximum Rated Gross Heat Input (MMBtu/hr):	15.31
Class:	Lean Burn
Description:	
Duty:	Base Loaded
Description:	
Minimum Load Range (%):	
Maximum Load Range (%):	
Stroke:	4-stroke
Power Output (BHP):	2636
Electric Output(KW):	1990
Compression Ratio:	11.3
Ignition Type:	Spark
Description:	
Engine Speed (RPM):	1800
Engine Exhaust Temperature (°F):	952
Air to Fuel Ratio at Peak Load:	
Ratio Basis:	
Lambda Factor (scfm/scfm):	1.78
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	5734
Output Type:	Cogeneration
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	(●) Yes ( ) No
Is the Engine Using an Aftercooler?	(●) Yes ( ) No

Is the Engine Using (check all that apply):

A Prestratified Charge (PSC)	☐	A NOx Converter	☐
Air to Fuel Adjustment (AF)	☑	Ignition Timing Retard	☐
Low Emission Combustion	☐	Non-Selective Catalytic Retard (NSCR)	☐
Other	☑		

Description:	SCR/Oxidation Catalyst

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:	MFG DATE 9/27/07		

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

21324 JERSEY SHORE MEDICAL CTR BOP250001 E3001 (Boiler)
Print Date: 3/25/2025

Make:	CLEAVER BROOKS
Manufacturer:	CLEAVER BROOKS
Model:	CBL-LN
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	40.35
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	35,617.00
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 (%):	20.00

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:

New Jersey Department of Environmental Protection

Control Device Inventory

NJID	Facility Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Control Device Set NJID
CD5	SCR	SCR	Selective Catalytic Reduction	6/1/2025	No		
CD6	O2	O2	Oxidizer (Catalytic)	6/1/2025	No		
CD7	SCR	SCR	Selective Catalytic Reduction	6/1/2025	No		
CD8	O2	O2	Oxidizer (Catalytic)	6/1/2025	No		

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD5 (Selective Catalytic Reduction)
Print Date: 3/25/2025

Make:	SCR High Temp
Manufacturer:	ecoCUBE
Model:	Series 5
Minimum Temperature at Catalyst Bed (°F):	500
Maximum Temperature at Catalyst Bed (°F):	1000
Minimum Temperature at Reagent Injection Point (°F):	500
Maximum Temperature at Reagent Injection Point (°F):	1000
Type of Reagent:	Urea
Description:	
Chemical Formula of Reagent:	Technical Grade Urea Liquor
Minimum Reagent Charge Rate (gpm):	0.3
Maximum Reagent Charge Rate (gpm):	0.6
Minimum Concentration of Reagent in Solution (% Volume):	32.5
Minimum NOx to Reagent Mole Ratio:	1
Maximum NOx to Reagent Mole Ratio:	25
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	HIGH TEMPERATURE HONEYCOMB BODY
Volume of Catalyst (ft^3):	64
Form of Catalyst:	Blocks
Anticipated Life of Catalyst:	25000
Units:	hours
Have you attached a catalyst replacement schedule?	○ Yes ● No
Method of Determining Breakthrough:	Ammonia Slip
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:	Urea consumption vs Engine Load
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD5 (Selective Catalytic Reduction)
Print Date: 3/25/2025

Comments:	The range of the SCR unit operates between 0.2 and 3.0 gallons per hour.

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD6 (Oxidizer (Catalytic))
Print Date: 3/25/2025

Make:	CO/VOC Oxidation
Manufacturer:	SUD Chemie
Model:	
Minimum Inlet Temperature (°F):	750
Maximum Inlet Temperature (°F)	1200
Minimum Outlet Temperature (°F)	750
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.2
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	1
Maximum Pressure Drop Across Catalyst (psi):	1.5
Catalyst Material:	Precious Metals: Platinum and Palladium
Form of Catalyst:	Other
Description:	Precious metals
Minimum Expected Life of Catalyst:	16000
Units:	hours
Volume of Catalyst (ft^3):	5.33
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Temperature differential across oxidation catalyst
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD7 (Selective Catalytic Reduction)
Print Date: 3/25/2025

Make:	SCR High Temp
Manufacturer:	ecoCUBE
Model:	Series 5
Minimum Temperature at Catalyst Bed (°F):	500
Maximum Temperature at Catalyst Bed (°F):	1000
Minimum Temperature at Reagent Injection Point (°F):	500
Maximum Temperature at Reagent Injection Point (°F):	1000
Type of Reagent:	Urea
Description:	
Chemical Formula of Reagent:	Technical Grade Urea Liquor
Minimum Reagent Charge Rate (gpm):	0.3
Maximum Reagent Charge Rate (gpm):	0.6
Minimum Concentration of Reagent in Solution (% Volume):	32.5
Minimum NOx to Reagent Mole Ratio:	1
Maximum NOx to Reagent Mole Ratio:	25
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	HIGH TEMPERATURE HONEYCOMB BODY
Volume of Catalyst (ft^3):	64
Form of Catalyst:	Blocks
Anticipated Life of Catalyst:	25000
Units:	hours
Have you attached a catalyst replacement schedule?	○ Yes ● No
Method of Determining Breakthrough:	Ammonia Slip
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:	Urea consumption vs Engine Load
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD7 (Selective Catalytic Reduction)
Print Date: 3/25/2025

Comments:	The range of the SCR unit operates between 0.2 and 3.0 gallons per hour.

21324 JERSEY SHORE MEDICAL CTR BOP250001 CD8 (Oxidizer (Catalytic))
Print Date: 3/25/2025

Make:	CO/VOC Oxidation
Manufacturer:	SUD Chemie
Model:	
Minimum Inlet Temperature (°F):	750
Maximum Inlet Temperature (°F)	1200
Minimum Outlet Temperature (°F)	750
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.2
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	1
Maximum Pressure Drop Across Catalyst (psi):	1.5
Catalyst Material:	Precious Metals: Platinum and Palladium
Form of Catalyst:	Other
Description:	Precious metals
Minimum Expected Life of Catalyst:	16000
Units:	hours
Volume of Catalyst (ft^3):	5.33
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Temperature differential across oxidation catalyst
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	○ Yes ● No
Comments:	

New Jersey Department of Environmental Protection

Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam (in.)	Height (ft.)	Property Line Distance (ft.)	Exhaust Temp. (deg F.)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min	Max	Avg	Min	Max		
PT2	NewCAT-EG#1	Emerg. Gen. E3 Stack	Round	43	25	430	915.0	515.0	1115.0	6500.0	5000.0	8000.0	Up	
PT3	NewCAT-EG#2	Emerg. Gen. E4 Stack	Round	43	25	430	915.0	515.0	1115.0	6500.0	5000.0	8000.0	Up	
PT8	BRENNAN	BRENNAN EMERG GEN	Round	12	92	220	995.0	970.0	1020.0	8011.0	7950.0	8050.0	Up	
PT9	ER GEN	ER EMERG GEN	Round	10	13	279	900.0	900.0	900.0	5063.0	5063.0	5063.0	Up	
PT2000	STACK CUP	STACK CUP-B3	Round	36	90	75	378.0	0.0	1000.0	7000.0	0.0	10000.0	Up	
PT2001	STACK CUP	STACK CUP-B2	Round	36	90	75	400.0	385.0	410.0	9923.0	3847.0	13384.0	Up	
PT2002	STACK CUP	STACK CUP-G1	Round	18	90	75	610.0	572.0	762.0	12109.0	3784.0	15136.0	Up	
PT2003	STACK CUP	STACK CUP-FP1	Round	5	90	75	702.0	659.0	878.0	726.0	242.0	968.0	Up	
PT2004	STACK CUP	STACK CUP-C1	Round	24	90	169	996.0	952.0	1020.0	13502.0	9607.0	17041.0	Up	
PT2005	STACK CUP	STACK CUP-C1	Round	24	90	169	996.0	952.0	1020.0	13502.0	9607.0	17041.0	Up	

New Jersey Department of Environmental Protection

Emission Unit/Batch Process Inventory

U 1 NewCAT-EG#1 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP220001)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	NewCAT-EG#1	24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW) Diesel fuel, 75 hrs/yr	Normal - Steady State	E3		PT2	2-01-001-02		75.0		5000.0	8000.0	515.0	1115.0

U 2 NewCAT-EG#2 24.4 MMBtu/hr Diesel Emerg. Gen., 2500 kW (BOP210001)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	NewCAT-EG#2	24.4 MMBTU/hr (HHV) Emerg. Gen. (2500 kW) Diesel fuel, 75 hrs/yr	Normal - Steady State	E4		PT3	2-01-001-02		75.0		5000.0	8000.0	515.0	1115.0

New Jersey Department of Environmental Protection

Emission Unit/Batch Process Inventory

U 6 BRENNAN GEN BRENNAN- 10.51 MMBtu/hr EMERGENCY GENERATOR (Caterpillar 3508 STD)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	BRENNAN GEN	Brennan Emergency Generator running on Diesel Fuel	Normal - Steady State	E801		PT8	2-01-001-02	0.0	200.0		7950.0	8050.0	970.0	1020.0

U 12 ER GEN ER- 7.77 MMBtu/hr EMERGENCY GENERATOR (Detroit Diesel 750DS60)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	ER GEN	ER Emergency Generator running on Diesel Fuel	Normal - Steady State	E901		PT9	2-01-001-02	0.0	250.0		5063.0	5063.0	900.0	900.0

U 14 Boiler CUPB1 Boiler #CUP-B1 (CB 40.82 MMBtu/hr w/Dual Fuel Burner)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	Blr CUPB1 NG	Boiler #CUP-B1 running on Natural Gas	Normal - Steady State	E2001		PT2000	1-03-006-02	0.0	8760.0		3810.0	13166.0	379.0	398.0
OS2	Blr CUPB1 #2	Boiler #CUP-B1 running on Fuel Oil #2	Normal - Steady State	E2001		PT2000	1-03-005-02	0.0	1200.0		3909.0	13538.0	379.0	398.0

New Jersey Department of Environmental Protection

Emission Unit/Batch Process Inventory

U 19 Boiler CUPB3 Boiler #CUP-B3 (40.35 MMBtu/hr w/ dual fuel burner)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	Blr CUPB3 NG	Boiler #CUP-B3 running on Natural Gas	Normal - Steady State	E3001		PT2000	1-03-006-02	0.0	8760.0		0.0	13000.0	0.0	400.0
OS2	Blr CUPB3 FO	Boiler #CUP-B3 running on Fuel Oil #2	Normal - Steady State	E3001		PT2000	1-03-005-02	0.0	4380.0		0.0	13000.0	0.0	400.0

U 20 BOILER CUPB2 Boiler #CUP-B2 (CB 40.82 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	Blr CUPB2 NG	Boiler #CUP-B2 running on Natural Gas	Normal - Steady State	E1504		PT2001	1-03-006-02	0.0	8760.0		3847.0	13384.0	385.0	410.0
OS2	Blr CUPB2 OI	Boiler #CUP-B2 running on Fuel Oil #2	Normal - Steady State	E1504		PT2001	1-03-005-02	0.0	8760.0		3853.0	13446.0	365.0	390.0

New Jersey Department of Environmental Protection

Emission Unit/Batch Process Inventory

U 21 COGENS CUP Cogeneration Unit #CUP-C1 and #CUP-C2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	COGEN CUP-C1	COGEN CUP-C1 NATURAL GAS	Normal - Steady State	E2301	CD5 (P)	PT2004	2-03-002-04	0.0	8000.0		9607.0	17041.0	952.0	1020.0
					CD6 (S)	PT2004	2-03-002-04	0.0	8000.0		9607.0	17041.0	952.0	1020.0
OS2	COGEN CUP-C2	COGEN CUP-C2 NATURAL GAS	Normal - Steady State	E2401	CD7 (P)	PT2005	2-03-002-04	0.0	8000.0		9607.0	17041.0	952.0	1020.0
					CD8 (S)	PT2005	2-03-002-04	0.0	8000.0		9607.0	17041.0	952.0	1020.0

U 22 FIREPUMP CUP Fire Pump #CUP-FP1 (Aurora-Cummings 1.18 MMBtu/hr), E2201, 110 kW, 2008 Model Year, Displacement < 10 liters/cylinder

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	FIRE PUMP	FIRE PUMP CUP-FP1 DIESEL	Normal - Steady State	E2201		PT2003	2-03-001-01	0.0	200.0		242.0	968.0	659.0	878.0

U 23 GEN CUP Emergency Generator #CUP-G1 (Caterpillar 19.7 MMBtu/hr), E2101, 2000 kW, 2008 Model Year, Displacement < 10 liters/cylinder

New Jersey Department of Environmental Protection

Emission Unit/Batch Process Inventory

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device	Emission Point	SCC	Annual Oper. Hrs		VOC Range	Flow (acfm)		Temp (deg F)	
								Min	Max		Min	Max	Min Temp	Max Temp
OS1	GEN CUP-G1	Emergency Generator #CUP-G1 Diesel	Normal - Steady State	E2101		PT2002	2-03-001-01	0.0	200.0		3784.0	15147.0	572.0	762.0