



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

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Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP200001

Program Interest Number: 36080

| Mailing Address | Plant Location |
|--|--|
| John Griffith ASSOCIATE DIRECTOR US DEPT OF VETERANS AFFAIRS LYONS CAMPUS 151 KNOLLCROFT RD Lyons, NJ 07939 | VANJHCS LYONS CAMPUS 151 Knollcroft Rd 138d Lyons Somerset County |

Initial Operating Permit Approval Date:

October 31, 2006

Operating Permit Renewal Approval Date:

DRAFT

Operating Permit Renewal Expiration Date:

AUTHORITY AND APPLICABILITY

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

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

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Michael Mankbadi at (609) 633-2675

Approved by:

Art Lehberger

Enclosure

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

Facility Name: VANJHCS LYONS CAMPUS
Program Interest Number: 36080
Permit Activity Number: BOP200001

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Section A

Facility Name: VANJHCS LYONS CAMPUS
Program Interest Number: 36080
Permit Activity Number: BOP200001

POLLUTANT EMISSIONS SUMMARY

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

| Facility's Potential Emissions from all Significant Source Operations (tons per year) | | | | | | | | | | |
|---|-------------|-----------------|------|-----------------|-------------|--------------------------|---------------------------|----|---------------|--------------------------------|
| Source Categories | VOC (total) | NO _x | CO | SO ₂ | TSP (total) | PM ₁₀ (total) | PM _{2.5} (total) | Pb | HAPs* (total) | CO ₂ e ² |
| Emission Units Summary | 1.14 | 18.5 | 9.07 | 0.340 | 1.55 | 1.55 | 1.55 | NA | 0.0115 | |
| Batch Process Summary | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Group Summary | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| Total Emissions | 1.14 | 18.5 | 9.07 | 0.340 | 1.55 | 1.55 | 1.55 | NA | 0.0115 | 16,798 |

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

| Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year) | | | | | | | | | |
|--|-------------|-----------------|--------|-----------------|-------------|--------------------------|---------------------------|----|--------------|
| Source Categories | VOC (total) | NO _x | CO | SO ₂ | TSP (total) | PM ₁₀ (total) | PM _{2.5} (total) | Pb | HAPs (total) |
| Insignificant Source Operations | 1.72 | 0.163 | 0.0510 | 0.182 | 0.0120 | 0.0120 | NA | NA | 0.840 |
| Non-Source Fugitive Emissions ³ | NA | NA | NA | NA | NA | NA | NA | NA | NA |

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

*Emissions of individual HAPs are provided in Table 3 on the next page.

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

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

² Total CO₂e emissions for the facility.

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

Section A

Facility Name: VANJHCS LYONS CAMPUS
Program Interest Number: 36080
Permit Activity Number: BOP200001

POLLUTANT EMISSIONS SUMMARY

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

| HAP | TPY |
|--------------------------------|------------|
| Arsenic | 0.0000396 |
| Cadmium | 0.000153 |
| Formaldehyde | 0.0113 |
| 7,12-Dimethylbenz(a)anthracene | 0.00000208 |

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

| Other Air Contaminant | TPY |
|-----------------------|-----|
| N/A | |

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

Section B

Facility Name: VANJHCS LYONS CAMPUS

Program Interest Number: 36080

Permit Activity Number: BOP200001

GENERAL PROVISIONS AND AUTHORITIES

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

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

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

Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
Minor Modifications [N.J.A.C. 7:27-22.23(e)];
Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

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

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
25. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: VANJHCS LYONS CAMPUS

Program Interest Number: 36080

Permit Activity Number: BOP200001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

| <u>SECTION</u> | <u>SUBJECT ITEM</u> | <u>ITEM #</u> | <u>REF. #</u> |
|----------------|---------------------|---------------|---------------|
| B | --- | 1 | --- |
| B | --- | 10b | --- |
| D | FC | --- | 3 |
| D | FC | --- | 9 |

Section D

Facility Name: VANJHCS LYONS CAMPUS
Program Interest Number: 36080
Permit Activity Number: BOP200001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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|-------------------------------------|---------------------------|

Facility (FC):

| | |
|----|---|
| FC | 1 |
|----|---|

Insignificant Sources (IS):

| IS NJID | IS Description | |
|---------|--|----|
| IS1 | Emergency Generators, each unit > 37 kW and (< 1 MMBtu/hr max. heat input) | 7 |
| IS2 | Diesel Storage tanks, for emergency generators (<=10,000 gallons, vapor pressure < 0.02 psia) | 10 |
| IS4 | 40,000 gallons of #2 Fuel Oil USTs Boiler Plant (> 10,000 gallons, vapor pressure < 0.02 psia) | 11 |
| IS5 | 15,000-gallons Diesel Fuel UST, Bldg. 136 (> 10,000 gallons, vapor pressure < 0.02 psia) | |

Emission Units (U):

| U NJID | U Designation | U Description | |
|--------|---------------|--|----|
| U3 | Generator129 | 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 129, standby for Bld. 1 | 17 |
| U4 | Generator130 | 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 130, standby for Bld. 2 & 9 | 23 |
| U5 | Generator131 | 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 131, standby for Bld. 3 & 4 | 29 |
| U6 | Generator132 | 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 132, standby for Bld. 7 & 8 | 35 |
| U7 | Generator133 | 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 133, standby for Bld. 54 | 41 |
| U8 | Generator134 | 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 134, standby for Bld. 13 & 14 | 47 |
| U10 | Generator140 | 3.01 MMBtu/hr Diesel Emergency Generator located in Bld. 140, standby for Bld. 57 & 58 | 53 |
| U12 | Generator141 | 1.06 MMBtu/hr Diesel Emergency Generator located in Bld. 141, standby for Bld. 141 | 59 |
| U13 | Generator138 | 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 138, standby for Bld. 53 | 65 |
| U16 | Generator142 | 4.46 MMBtu/hr Diesel Emergency Generator located in Bld. 142, standby for Bld. 10, 11 & 12 | 71 |
| U17 | Boiler #3 | 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), | 77 |

| | | | |
|-----|--------------|---|-----|
| | | subject to NSPS Subpart Dc | |
| U18 | Boiler #4 | 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc | 91 |
| U19 | Boiler #2 | 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc | 105 |
| U20 | Boiler #1 | 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc | 119 |
| U21 | Boiler #5 | 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc | 133 |
| U22 | Generator144 | 7.0 MMBtu/hr Diesel Emergency Generator located in Bld. 144, standby for Bld. 143 | 146 |
| U23 | Generator136 | 19.03 MMBtu/hr Diesel Emergency Generator, E2301, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII | 151 |
| U24 | Generator136 | 19.03 MMBtu/hr Diesel Emergency Generator, E2401, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII | 160 |
| U25 | Generator135 | 7.84 MMBtu/hr Diesel Emergency Generator, E2501, 800 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII | 169 |
| U27 | MoEmGen | 3.43 MMBtu/hr Diesel Emergency Generator, E2701, 375 kW from BOP190001 | 178 |

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 150001

Description of Modifications: Five Year Operating Permit Renewal.

1. Natural gas usage limits for the boilers in U17-U21 were reduced from 60 MMscf/yr to 52 MMscf/yr. Annual emissions were updated appropriately. For U17-U19: VOC was reduced from 0.140 tons/year to 0.109 tons/year; NOx emissions were reduced from 1.95 tons/year to 1.01 tons/year; CO emissions were reduced from 1.63 tons/year to 1.00 tons/year; TSP/PM10/PM2.5 emissions were reduced from 0.370 tons/year to 0.226 tons/year. For U20-U21: VOC emissions were reduced from 0.180 tons/year to 0.145 tons/year; NOx emissions were reduced from 4.09 tons/year to 2.67 tons/year; CO emissions were reduced from 2.84 tons/year to 2.23 tons/year; TSP/PM10/PM2.5 emissions were reduced from 0.330 tons/year to 0.208 tons/year.
2. HAPs emissions were updated based on the reporting thresholds in N.J.A.C. 7:27-17. HAPs emissions limits were added to the boilers in U17-21 as follows: Facility-wide HAPs emissions limits were established as follows: Arsenic, 0.0000396 tons/year; Cadmium, 0.000153 tons/year; Formaldehyde, 0.0113 tons/year; 7,12-Dimethylbenz(a)anthracene, 0.00000208 tons/year; HAPs (Total), 0.0115 tons/year. VOC emissions were adjusted to include formaldehyde.
3. The 500 hour/year fuel oil emergency usage operating limit was removed from the boilers in U17-21. The annual fuel oil usage limits were updated to reflect usage needed for testing and maintenance; annual fuel usage was reduced from 100,071 gallons/year to 10,000 gallons/year.
4. PM-2.5 emission limits were added consistent with N.J.A.C. 7:27-22.
5. General Operating Permit BOP190001, U27 (E2701, 3.43 MMBtu/hr Diesel Em. Gen.) was incorporated into the permit.
6. A previously registered 0.200 MMBtu/hr used oil space heater was added in IS6.
7. Emissions from insignificant sources were updated: VOC emissions were reduced from 1.75 tons/year to 1.72 tons/year; NOx emissions were reduced from 0.466 tons/year to 0.163 tons/year; CO emissions were reduced from 0.100 tons/year to 0.0510 tons/year; SO2 emissions were increased from 0.0310 tons/year to 0.182 tons/year; TSP and PM10 emissions were reduced from 0.0330 tons/year to 0.0120 tons/year, HAPs emissions were added at to 0.840 tons/year.

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Facility Specific Requirements**

Subject Item: FC

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

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Facility Specific Requirements**

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

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

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

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Facility Specific Requirements**

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

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---|--|
| 16 | The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9] | None. | None. | None. |
| 17 | The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10] | None. | None. | None. |
| 18 | Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)] | None. | None. | Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)] |
| 19 | Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)] | None. |
| 20 | Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3)). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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Facility Specific Requirements**

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

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

Subject Item: IS1 Emergency Generators, each unit > 37 kW (< 1 MMBtu/hr max. heat input)

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

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 4 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter 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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <p style="margin-left: 40px;">i. The reason for its operation;</p> <p style="margin-left: 40px;">ii. The date(s) of operation and the start up and shut down time;</p> <p style="margin-left: 40px;">iii. The total operating time for testing or maintenance based on the generator's hour meter; and</p> <p style="margin-left: 40px;">iv. The name of the operator; and</p> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 5 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

Subject Item: IS2 Diesel Storage tanks, for emergency generators ($\leq 10,000$ gallons, vapor pressure < 0.02 psia)

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

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

Subject Item: IS4 40,000 gallons of #2 Fuel Oil USTs Boiler Plant (> 10,000 gallons, vapor pressure < 0.02 psia), IS5 15,000-gallons Diesel Fuel UST, Bldg. 136 (> 10,000 gallons, vapor pressure < 0.02 psia)

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Sulfur Content in Fuel ≤ 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(a)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 2 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|--------------|---|-------------------------------|----------------------------------|-------------------------------------|
| 8 | The tank's or vessel's potential to emit each TXS and each HAP 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. |

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

Subject Item: IS6 Space Heater Combusting On-Specification Used Oil Covered by a Registration (< 1 MMBtu/hr max. rated heat input)

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|------------------------------|
| 1 | The space heater(s) shall combust only used oil from conveyances that are powered by an internal combustion engine, consisting of any of the following: used crankcase oil, used transmission fluid, used power steering fluid, and used brake fluid. No. 1 and No 2 commercial fuel oils may also be burned. Other substances may not be added to the used oil storage tank including, but not limited to: antifreeze, carburetor cleaner, paint thinner, paint, part degreaser solvents, gasoline, oil additives, chlorinated solvents, battery acid, and substances defined as hazardous wastes pursuant to N.J.A.C. 7:26G-5. [N.J.A.C. 7:27-20.3(b)3] | None. | None. | None. |
| 2 | The space heater(s) shall be operated for energy recovery only (for example, space heating or hot water heating). [N.J.A.C. 7:27-20.3(b)1] | None. | None. | None. |
| 3 | The space heater(s) shall only combust used oils generated on-site, or from household do-it-yourselfer used oil generators, or from do-it-yourselfer used oil collection centers. [N.J.A.C. 7:27-20.3(b)2] | None. | None. | None. |
| 4 | The space heater(s) shall be listed and tested by a nationally recognized laboratory in accordance with Underwriters Laboratories, Incorporated Standard for Safety UL 296A "Waste Oil-Burning Air-Heating Appliances" or Canadian Standards Association-CSA Standard B140.4-1974 (R1991)-Oil-Fired Warm Air Furnaces and FBL Notice Number 72-Requirements for Appliances Burning Used Oil in an Atomized Burner and listed. [N.J.A.C. 7:27-20.3(b)6] | None. | Other: Maintain a listing provided by the manufacturer of the space heaters.[N.J.A.C. 7:27-20.3(b)6]. | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 5 | The discharge point of the stack serving the space heater(s) shall be higher than the peak of the roof of the building in which the space heater is located and that discharge point shall be at least 20 feet above grade. [N.J.A.C. 7:27-20.3(b)5] | None. | None. | None. |
| 6 | The equipment shall not be used in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for a period of no more than 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-20.3(b)10] | Monitored by visual determination at the approved frequency, based on any consecutive 30-minute period The approved frequency shall be within 24 hours of start-up and annually thereafter. Also, the stack shall be monitored at any time when there exists the potential for a violation of this standard. If visible emissions are observed refer to operator manual for corrective measures and record the corrective action. The space heater(s) shall not be operated, except for adjustment purposes, until the owner or operator corrects any mechanical problems and readjusts the air-to-fuel ratio, if necessary, and the space heater meets the no visible emission standard. [N.J.A.C. 7:27-20.3(b)8iv] and. [None] | Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Record time of observation of visible emissions and record any corrective action taken. [N.J.A.C. 7:27-20.3(b)15ii] | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 7 | Adjust the combustion process of the space heater(s) within 24 operating hours after startup and annually thereafter as follows: (A) Adjust the air-to-fuel ratio to the manufacturer's recommended standards and ensure that it is correctly calibrated and functioning properly; (B) Inspect the space heater(s) and clean or replace any components as necessary to minimize total CO emissions; (C)(i) Sample and analyze the exhaust stream for CO and oxygen. The CO emissions after adjustment in (A) and (B) above shall be no more than 100 parts per million by volume, dry basis (ppmvd), hourly average, corrected to 7% oxygen (ppmvd@7%O ₂). (C)(ii) If an exhaust stream sample exceeds the 100 ppmvd@7%O ₂ for CO, the space heater(s) shall not be operated, except for adjustment purposes, until the mechanical problems are corrected and the space heater has been readjusted, and demonstrated to meet the CO CO standard; (D) Ensure the exhaust emissions at the stack do not contain visible particulate emissions. [N.J.A.C. 7:27-20.3(b)8] | Monitored by periodic emission monitoring at the approved frequency, based on a 1 hour block average The approved frequency shall be within 24 operating hours after start-up and annually thereafter. The CO testing equipment shall be capable of measuring and recording the in-stack concentrations of CO, over a range of 0 to 500 ppmvd with an accuracy of plus/minus 5% of the reading when measuring 100 ppmvd. Testing for less than one hour is permitted if the CO reading is no more than 100 ppmvd@7%O ₂ for the first five consecutive minutes of operation. [N.J.A.C. 7:27-20.3(b)8] | Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Record the manufacturer and model number of the portable monitor used for the CO and oxygen measurements, all adjustments made to the space heater, all parts replaced or cleaned, all carbon monoxide and oxygen readings, the determination of the presence of visible emissions, and the dates of each adjustment. [N.J.A.C. 7:27-20.3(b)8] | None. |
| 8 | Maintain oil filtering equipment in accordance with manufacturer's specifications. The space heater shall not be operated without the oil filter installed and operating properly. [N.J.A.C. 7:27-20.3(b)13] | None. | None. | None. |
| 9 | Maximum Gross Heat Input <= 0.5 MMBTU/hr (HHV) The total combined gross heat input of all used oil space heaters at the facility. [N.J.A.C. 7:27-20.3(a)1] and. [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 11 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |

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

Emission Unit: U3 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 129, standby for Bld. 1

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.44 lb/hr. Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 2.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.043 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.529 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.114 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.035 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | TSP <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U3 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 129, standby f

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.037 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U3 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 129, standby for Bld. 1

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 10.58 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.74 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U4 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 130, standby for Blds. 2 & 9

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.44 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 2.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.043 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.529 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.114 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.035 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.037 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U4 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 130, standby for Blds. 2 & 9

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 10.58 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.74 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U5 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 131, standby for Blds. 3 & 4

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.44 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 2.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.043 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.529 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.114 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.035 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U5 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 131, standby f

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.037 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U5 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 131, standby for Blds. 3 & 4

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 10.58 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.74 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U6 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 132, standby for Blds. 7 & 8

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.03 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input \leq 1.71 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) \leq 0.031 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) \leq 0.377 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO \leq 0.0815 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO ₂ \leq 0.025 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U6 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 132, standby

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.0265 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U6 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 132, standby for Blds. 7 & 8

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 7.54 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 1.63 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.53 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U7 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 133, standby for Bld. 54

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.03 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input \leq 1.71 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) \leq 0.031 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) \leq 0.377 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO \leq 0.0815 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO ₂ \leq 0.025 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U7 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 133, standby

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.0265 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U7 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 133, standby for Bld. 54

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 7.54 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 1.63 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.53 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U8 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 134, standby for Blds. 13 & 14

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.03 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input \leq 1.71 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) \leq 0.031 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) \leq 0.377 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO \leq 0.0815 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO ₂ \leq 0.025 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) \leq 0.0265 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U8 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 134, standby

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.0265 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U8 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 134, standby for Blds. 13 & 14

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 7.54 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 1.63 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.53 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U10 3.01 MMBtu/hr Diesel Emergency Generator located in Bld. 140, standby for Blds. 57 & 58

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.81 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 3.01 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.054 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.664 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.143 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.044 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP <= 0.047 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.047 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

U10 3.01 MMBtu/hr Diesel Emergency Generator located in Bld. 140, standb

OS Summary

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.047 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U10 3.01 MMBtu/hr Diesel Emergency Generator located in Bld. 140, standby for Blds. 57 & 58

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 1.05 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 13.27 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 2.86 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.87 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.93 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.93 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.93 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

BOP200001

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

Emission Unit: U12 1.06 MMBtu/hr Diesel Emergency Generator located in Bld. 141, standby for Bld. 141

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 0.64 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

BOP200001

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input \leq 1.06 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) \leq 0.019 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) \leq 0.234 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO \leq 0.051 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO ₂ \leq 0.016 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP \leq 0.017 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) \leq 0.017 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.017 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U12 1.06 MMBtu/hr Diesel Emergency Generator located in Bld. 141, standby for Bld. 141

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.37 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 4.67 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 1.01 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.31 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.33 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | 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. |

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

Emission Unit: U13 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 138, standby for Bld. 53

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 1.44 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 2.4 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.043 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.529 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.114 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.035 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP <= 0.037 tons/yr v. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.037 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.037 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U13 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 138, standby for Bld. 53

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.84 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 10.58 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.7 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.74 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U16 4.46 MMBtu/hr Diesel Emergency Generator located in Bld. 142, standby for Blds. 10, 11 & 12

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 1 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Particulate Emissions <= 2.68 lb/hr Particulate emission limit from the combustion of fuel based on the 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 showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 4.46 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.081 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 0.984 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.212 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | SO2 <= 0.065 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | TSP <= 0.069 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-10 (Total) <= 0.069 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 16 | PM-2.5 (Total) <= 0.069 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U16 4.46 MMBtu/hr Diesel Emergency Generator located in Bld. 142, standby for Blds. 10, 11 & 12

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 1.56 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 19.67 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 4.24 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 1.29 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | TSP <= 1.38 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 1.38 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 1.38 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U17 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Particulate Emissions \leq 8.83 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 \leq 28.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 4 | Boiler fuels limited to natural gas and emergency use #2 fuel oil. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Natural Gas Usage \leq 52 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 | Fuel Oil Usage \leq 10,000 gallons per any consecutive 12 month period based on a HHV of 140,000 Btu/gal. [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) \leq 0.109 tons/yr (includes formaldehyde), based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|--|
| 8 | NO _x (Total) <= 1.01 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | CO <= 1 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-10 (Total) <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.226 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | HAPs (Total) <= 0.0023 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00225 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Arsenic compounds <= 0.00000791 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.0000306 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000416 tons/yr based on fuel usage limits. [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)] |

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|--|
| 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)] |
| 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|------------------------------|
| 22 | The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A). [40 CFR 60.7(f)] | None. | Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. 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. |
| 23 | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|--|
| 24 | 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. |
| 25 | 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)] |
| 26 | 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. |
| 27 | Sulfur Content in Fuel \leq 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 28 | 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)] |
| 29 | The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). (NSPS Subpart Dc). [40 CFR 60.48c(d)] | None. | Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)]. | Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)] |
| 30 | The owner or operator shall record and maintain records of the amounts of each fuel combusted in the unit each operating day. (NSPS Subpart Dc). [40 CFR 60.48c(g)(1)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.48c(g)(1)] | None. |
| 31 | The owner or operator shall maintain all required records for a period of two years following the date of such record. (NSPS Subpart Dc). [40 CFR 60.48c(i)] | None. | None. | None. |

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

Emission Unit: U17 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS1 Natural Gas is used as the main fuel, dual fuel burner

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | None. | None. | None. |

New Jersey Department of Environmental Protection Facility Specific Requirements

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

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 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 | NO _x (Total) <= 0.12 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a dual fuel burner shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified above. Once Initial Stack Test TST130001 was conducted on 1/20/2014. [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-19.7(i)1] | None. | None. | None. |
| 5 | VOC (Total) <= 0.113 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NO _x (Total) <= 0.99 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | CO <= 1.02 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | TSP <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | PM-10 (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | PM-2.5 (Total) <= 0.23 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | Arsenic compounds <= 0.00000555 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | Cadmium compounds <= 0.0000305 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 13 | Dimethylbenz(a)anthracene (7,12-) <= 0.0000004 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00208 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U17 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS2 Fuel Oil #2, dual fuel burner, emergency use only

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|--|
| 2 | <p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment;</p> <p>and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available.</p> <p>[N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p> | None. | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods, 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period.</p> <p>N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and [N.J.A.C. 7:27-19.25(d)]</p> | <p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility.</p> <p>[N.J.A.C. 7:27-19.19(g)(2)] and [N.J.A.C. 7:27-19.25(d)]</p> |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | <p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p> | None. | <p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number hours fuel oil was combusted for periodic testing in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p> | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | VOC (Total) <= 0.073 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | NOx (Total) <= 3.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | CO <= 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 11 | PM-10 (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.45 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | Arsenic compounds <= 0.000000809 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.0123 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Cadmium compounds <= 0.000000606 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U18 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc
Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Particulate Emissions \leq 8.83 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 \leq 28.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 4 | Boiler fuels limited to natural gas and emergency use #2 fuel oil. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Natural Gas Usage \leq 52 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 | Fuel Oil Usage \leq 10,000 gallons per any consecutive 12 month period based on a HHV of 140,000 Btu/gal. [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) \leq 0.109 tons/yr (includes formaldehyde), based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|--|
| 8 | NO _x (Total) <= 1.01 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | CO <= 1 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-10 (Total) <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.226 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | HAPs (Total) <= 0.0023 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00225 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Arsenic compounds <= 0.00000791 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.0000306 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000416 tons/yr based on fuel usage limits. [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)] |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|--|
| 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)] |
| 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)] |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|------------------------------|
| 22 | The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A). [40 CFR 60.7(f)] | None. | Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. 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. |
| 23 | 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. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|--|
| 24 | 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. |
| 25 | 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)] |
| 26 | 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. |
| 27 | Sulfur Content in Fuel \leq 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)] |

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 28 | 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)] |
| 29 | The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). (NSPS Subpart Dc). [40 CFR 60.48c(d)] | None. | Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)]. | Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)] |
| 30 | The owner or operator shall record and maintain records of the amounts of each fuel combusted in the unit each operating day. (NSPS Subpart Dc). [40 CFR 60.48c(g)(1)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.48c(g)(1)] | None. |
| 31 | The owner or operator shall maintain all required records for a period of two years following the date of such record. (NSPS Subpart Dc). [40 CFR 60.48c(i)] | None. | None. | None. |

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

Emission Unit: U18 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS1 Natural Gas is used as the main fuel, dual fuel burner

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping 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. 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 specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth 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, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, 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: $(20.9\%)/(20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)] | 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | The owner or operator 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 | NO _x (Total) <= 0.12 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a dual fuel burner shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified above. Once Initial Stack Test TST130001 was conducted on 1/20/2014. [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-19.7(i)1] | None. | None. | None. |
| 5 | VOC (Total) <= 0.113 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NO _x (Total) <= 0.99 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | CO <= 1.02 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | TSP <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | PM-10 (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | PM-2.5 (Total) <= 0.23 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | Arsenic compounds <= 0.00000114 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | Cadmium compounds <= 0.00000651 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U18 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Pl

OS1

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 13 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000095 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.000445 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U18 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS2 Fuel Oil #2, dual fuel burner, emergency use only

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | 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. |

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|--|
| 2 | <p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment;</p> <p>and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available.</p> <p>[N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p> | None. | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods, 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period.</p> <p>N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and [N.J.A.C. 7:27-19.25(d)]</p> | <p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility.</p> <p>[N.J.A.C. 7:27-19.19(g)(2)] and [N.J.A.C. 7:27-19.25(d)]</p> |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | <p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p> | None. | <p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number hours fuel oil was combusted for periodic testing in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p> | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | VOC (Total) <= 0.073 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | NOx (Total) <= 3.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | CO <= 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 11 | PM-10 (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.45 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | Formaldehyde <= 0.00309 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Arsenic compounds <= 0.000000809 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Formaldehyde <= 0.0123 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.000000606 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U19 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Particulate Emissions \leq 8.83 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 \leq 28.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 4 | Boiler fuels limited to natural gas and emergency use #2 fuel oil. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Natural Gas Usage \leq 52 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 | Fuel Oil Usage \leq 10,000 gallons per any consecutive 12 month period based on a HHV of 140,000 Btu/gal. [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) \leq 0.109 tons/yr (includes formaldehyde), based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|--|
| 8 | NO _x (Total) <= 1.01 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | CO <= 1 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-10 (Total) <= 0.226 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.226 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | HAPs (Total) <= 0.0023 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00225 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Arsenic compounds <= 0.00000791 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.0000306 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000416 tons/yr based on fuel usage limits. [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)] |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|--|
| 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)] |
| 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)] |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|------------------------------|
| 22 | The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A). [40 CFR 60.7(f)] | None. | Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. 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. |
| 23 | 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. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|--|
| 24 | 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. |
| 25 | 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)] |
| 26 | 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. |
| 27 | Sulfur Content in Fuel \leq 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)] |

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 28 | 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)] |
| 29 | The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). (NSPS Subpart Dc). [40 CFR 60.48c(d)] | None. | Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)]. | Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)] |
| 30 | The owner or operator shall record and maintain records of the amounts of each fuel combusted in the unit each operating day. (NSPS Subpart Dc). [40 CFR 60.48c(g)(1)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.48c(g)(1)] | None. |
| 31 | The owner or operator shall maintain all required records for a period of two years following the date of such record. (NSPS Subpart Dc). [40 CFR 60.48c(i)] | None. | None. | None. |

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

Emission Unit: U19 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS1 Natural Gas is used as the main fuel, dual fuel burner

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | None. | None. | None. |

New Jersey Department of Environmental Protection Facility Specific Requirements

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping 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. 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 specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth 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, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, 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: $(20.9\%)/(20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)] | 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | The owner or operator 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 | NO _x (Total) <= 0.12 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a dual fuel burner shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified above. Once Initial Stack Test TST130001 was conducted on 1/20/2014. [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-19.7(i)1] | None. | None. | None. |
| 5 | VOC (Total) <= 0.113 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NO _x (Total) <= 0.99 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | CO <= 1.02 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | TSP <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | PM-10 (Total) <= 0.23 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | PM-2.5 (Total) <= 0.23 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | Arsenic compounds <= 0.00000114 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | Cadmium compounds <= 0.00000651 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U19 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Pl

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 13 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000095 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.000445 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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Facility Specific Requirements**

Emission Unit: U19 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS2 Fuel Oil #2, dual fuel burner, emergency use only

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | 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. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|--|
| 2 | <p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment;</p> <p>and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available.</p> <p>[N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p> | None. | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods, 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period.</p> <p>N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and [N.J.A.C. 7:27-19.25(d)]</p> | <p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility.</p> <p>[N.J.A.C. 7:27-19.19(g)(2)] and [N.J.A.C. 7:27-19.25(d)]</p> |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | <p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p> | None. | <p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number hours fuel oil was combusted for periodic testing in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p> | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | VOC (Total) <= 0.073 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | NOx (Total) <= 3.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | CO <= 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 11 | PM-10 (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.45 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | Arsenic compounds <= 0.000000809 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.0123 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Cadmium compounds <= 0.000000606 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U20 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Particulate Emissions ≤ 8.83 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 ≤ 28.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 4 | Boiler fuels limited to natural gas and emergency use #2 fuel oil. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Natural Gas Usage ≤ 52 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 | Fuel Oil Usage $\leq 10,000$ gallons per any consecutive 12 month period based on a HHV of 140,000 Btu/gal. [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) ≤ 0.145 tons/yr (includes formaldehyde), based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|--|
| 8 | NO _x (Total) <= 2.68 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | CO <= 2.23 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.208 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-10 (Total) <= 0.208 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.208 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | HAPs (Total) <= 0.0023 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00225 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Arsenic compounds <= 0.00000791 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.0000306 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000416 tons/yr based on fuel usage limits. [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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|--|
| 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)] |
| 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|------------------------------|
| 22 | The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A). [40 CFR 60.7(f)] | None. | Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. 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. |
| 23 | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|--|
| 24 | 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. |
| 25 | 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)] |
| 26 | 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. |
| 27 | Sulfur Content in Fuel \leq 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 28 | 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)] |
| 29 | The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). (NSPS Subpart Dc). [40 CFR 60.48c(d)] | None. | Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)]. | Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)] |
| 30 | The owner or operator shall record and maintain records of the amounts of each fuel combusted in the unit each operating day. (NSPS Subpart Dc). [40 CFR 60.48c(g)(1)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.48c(g)(1)] | None. |
| 31 | The owner or operator shall maintain all required records for a period of two years following the date of such record. (NSPS Subpart Dc). [40 CFR 60.48c(i)] | None. | None. | None. |

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

Emission Unit: U20 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS1 Natural Gas is used as the main fuel, dual fuel burner

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | None. | None. | None. |

New Jersey Department of Environmental Protection Facility Specific Requirements

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

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 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 | NO _x (Total) <= 0.12 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a dual fuel burner shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified above. Once Initial Stack test TST070001 was conducted on August 2008. [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-19.7(i)1] | None. | None. | None. |
| 5 | VOC (Total) <= 0.151 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NO _x (Total) <= 2.77 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | CO <= 2.33 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 8 | TSP <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 9 | PM-10 (Total) <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 10 | PM-2.5 (Total) <= 0.21 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | Arsenic compounds <= 0.00000114 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | Cadmium compounds <= 0.00000651 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U20 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Pl

OS1

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 13 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000095 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.000445 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U20 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS2 Fuel Oil #2, dual fuel burner, emergency use only

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|--|
| 2 | <p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment;</p> <p>and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available.</p> <p>[N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p> | None. | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods, 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period.</p> <p>N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and [N.J.A.C. 7:27-19.25(d)]</p> | <p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility.</p> <p>[N.J.A.C. 7:27-19.19(g)(2)] and [N.J.A.C. 7:27-19.25(d)]</p> |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | <p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p> | None. | <p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number hours fuel oil was combusted for periodic testing in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p> | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)] | None. | None. | None. |
| 6 | VOC (Total) <= 0.073 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | NOx (Total) <= 3.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | CO <= 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 11 | PM-10 (Total) <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.45 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | Arsenic compounds <= 0.000000809 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.0123 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Cadmium compounds <= 0.000000606 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U21 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc
Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Particulate Emissions ≤ 8.83 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 ≤ 28.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 4 | Boiler fuels limited to natural gas and emergency use #2 fuel oil. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Natural Gas Usage ≤ 52 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 | Fuel Oil Usage $\leq 10,000$ gallons per any consecutive 12 month period based on a HHV of 140,000 Btu/gal. [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) ≤ 0.145 tons/yr (includes formaldehyde), based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|--|
| 8 | NO _x (Total) <= 2.68 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | CO <= 2.23 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | TSP <= 0.208 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-10 (Total) <= 0.208 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-2.5 (Total) <= 0.208 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | HAPs (Total) <= 0.0023 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.00225 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Arsenic compounds <= 0.00000791 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Cadmium compounds <= 0.0000306 tons/yr based on fuel usage limits. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000416 tons/yr based on fuel usage limits. [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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|--|
| 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)] |
| 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|--|------------------------------|
| 22 | The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A). [40 CFR 60.7(f)] | None. | Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. 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. |
| 23 | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|--|
| 24 | 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. |
| 25 | 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)] |
| 26 | 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. |
| 27 | Sulfur Content in Fuel \leq 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 28 | 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)] |
| 29 | The owner or operator of each affected facility subject to the SO ₂ emission limits or fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall maintain records, and report to the Administrator, all information specified at 40 CFR 60.48c(e). (NSPS Subpart Dc). [40 CFR 60.48c(d)] | None. | Other: The owner or operator shall record all applicable information specified at 40 CFR 60.48c(e)(1) through (e)(11). [40 CFR 60.48c(d)]. | Submit a report: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The owner or operator shall report to the Administrator all applicable information specified at 40 CFR 60.48c(e)(1) through (11). [40 CFR 60.48c(d)] |
| 30 | The owner or operator shall record and maintain records of the amounts of each fuel combusted in the unit each operating day. (NSPS Subpart Dc). [40 CFR 60.48c(g)(1)] | None. | Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.48c(g)(1)] | None. |
| 31 | The owner or operator shall maintain all required records for a period of two years following the date of such record. (NSPS Subpart Dc). [40 CFR 60.48c(i)] | None. | None. | None. |

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

Emission Unit: U21 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS1 Natural Gas is used as the main fuel, dual fuel burner

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)] | None. | None. | None. |

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New Jersey Department of Environmental Protection Facility Specific Requirements

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping 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. 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 specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth 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, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, 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: $(20.9\%)/(20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)] | 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 3 | The owner or operator 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 | NO _x (Total) <= 0.12 lb/MMBTU. The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour, but less than 50 million BTU per hour, burning natural gas with a dual fuel burner shall cause the boiler or other indirect heat exchanger to emit NO _x at a rate no greater than the applicable maximum allowable NO _x emission rate specified above. Once Initial Stack test TST070001 was conducted on August 2008. [N.J.A.C. 7:27-22.16(a)] & [N.J.A.C. 7:27-19.7(i)1] | None. | None. | None. |
| 5 | VOC (Total) <= 0.151 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NO _x (Total) <= 2.77 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | CO <= 2.33 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 8 | TSP <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 9 | PM-10 (Total) <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 10 | PM-2.5 (Total) <= 0.21 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | Arsenic compounds <= 0.00000114 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | Cadmium compounds <= 0.00000651 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U21 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Pl

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 13 | Dimethylbenz(a)anthracene (7,12-) <= 0.000000095 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde <= 0.000445 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U21 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

Operating Scenario: OS2 Fuel Oil #2, dual fuel burner, emergency use only

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---|--|
| 1 | <p>The permittee shall use fuel oil or other liquid fuel only if:</p> <p>1) The permittee is practicably not able to obtain a sufficient amount of natural gas;</p> <p>2) The permittee is not able to obtain natural gas due to circumstances beyond the control of the permittee, such as a natural gas curtailment;</p> <p>and</p> <p>3) The combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available.</p> <p>[N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-19.25(a)] and [N.J.A.C. 7:27-19.25(c)]</p> | None. | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods, 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas.</p> <p>If no fuel oil or other liquid fuel was combusted during the year, maintain an on-site certification in accordance with N.J.A.C.7:27-1.39 stating that no fuel oil was combusted during this period.</p> <p>N.J.A.C. 7:27-22.16(o)], [N.J.A.C. 7:27-19.25(c)] and [N.J.A.C. 7:27-19.25(d)]</p> | <p>Submit a report: Annually if fuel oil or other liquid fuel was combusted under the N.J.A.C.7:27-19.25 exemption. Submit the report by March 1 of each year for the preceding calendar year to the Regional Enforcement Office. The annual report shall include items 1) through 4) specified under the Recordkeeping Requirements section. The annual report shall also include any violations which occurred during the previous year. If no violations occurred during the year, the owner or operator shall provide certification that no violations occurred and that the records are maintained at the facility.</p> <p>[N.J.A.C. 7:27-19.19(g)(2)] and [N.J.A.C. 7:27-19.25(d)]</p> |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 2 | <p>Hours of Operation While Firing Fuel Oil <= 48 hours. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The owner or operator shall not fire fuel oil or other liquid fuel for 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 shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [N.J.A.C. 7:27-22.16(a)]</p> | None. | <p>Hours of Operation While Firing Fuel Oil: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the total number hours fuel oil was combusted for periodic testing in a calendar year. Maintain readily accessible records onsite. [N.J.A.C. 7:27-22.16(o)]</p> | None. |
| 3 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 5 | VOC (Total) <= 0.073 lb/hr (includes formaldehyde). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | NOx (Total) <= 3.4 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | CO <= 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | TSP <= 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|--|------------------------------|
| 10 | PM-10 (Total) \leq 0.45 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | PM-2.5 (Total) \leq 0.45 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | 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. |
| 13 | Arsenic compounds \leq 0.000000809 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Formaldehyde \leq 0.0123 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 15 | Cadmium compounds \leq 0.000000606 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U21 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Pl

OS2

BOP200001

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

Emission Unit: U22 7.0 MMBtu/hr Diesel Emergency Generator located in Bld. 144, standby for Bld. 143

Operating Scenario: OS Summary

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

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 6 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 7 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 8 | Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 9 | Maximum Gross Heat Input <= 7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 10 | VOC (Total) <= 0.032 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 11 | NOx (Total) <= 1.12 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 12 | CO <= 0.298 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 13 | TSP <= 0.025 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 14 | PM-10 (Total) <= 0.025 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 15 | PM-2.5 (Total) <= 0.025 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

U22 7.0 MMBtu/hr Diesel Emergency Generator located in Bld. 144, standby

OS Summary

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

Emission Unit: U22 7.0 MMBtu/hr Diesel Emergency Generator located in Bld. 144, standby for Bld. 143

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.63 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 2 | NOx (Total) <= 22.4 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 3 | CO <= 5.95 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 4 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | TSP <= 0.49 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.49 lb/hr. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.49 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U23 19.03 MMBtu/hr Diesel Emergency Generator, E2301, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS
Subpart IIII

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart 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 <= 7.81 lb/hr Particulate emission limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 7 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 8 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 9 | Hours of Operation \leq 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)] | Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)] | Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 10 | Maximum Gross Heat Input \leq 19.03 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 11 | VOC (Total) \leq 0.032 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | NOx (Total) \leq 1.59 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | CO \leq 0.086 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | TSP \leq 0.008 tons/yr 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) \leq 0.008 tons/yr 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) \leq 0.008 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|---|
| 17 | All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A). [40 CFR 60.4(a)] | None. | None. | Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)] |
| 18 | Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A). [40 CFR 60.4(b)] | None. | None. | Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)] |
| 19 | No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A). [40 CFR 60.12] | None. | None. | None. |
| 20 | The owner or operator shall notify the Administrator of the proposed replacement of components, 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 21 | Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A). [40 CFR 60.19] | None. | None. | None. |
| 22 | The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power ≥ 37 kW (HP ≥ 50) and no greater than 3,000HP ($\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO _x ≤ 6.4 g/HP-hr, CO ≤ 3.5 g/HP-hr, PM ≤ 0.20 g/HP-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. |
| 23 | 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 1090.305 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- 8.13(d)] | 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- 8.13(d)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---|------------------------------|
| 24 | 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. |
| 25 | 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 60.4204(b) or 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). (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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 26 | 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. |

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

Emission Unit: U23 19.03 MMBtu/hr Diesel Emergency Generator, E2301, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

Operating Scenario: OS1 Diesel Emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.644 lb/hr based on manufacturer emission factor of 0.11 g/hp-hr for HC. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 2 | NOx (Total) <= 31.9 lb/hr based on manufacturer emission factor of 5.39 g/hp-hr for NOx. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | CO <= 1.71 lb/hr based on manufacturer emission factor of 0.29 g/hp-hr for CO. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | TSP <= 0.161 lb/hr based on manufacturer emission factor of 0.026 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.161 lb/hr based on manufacturer emission factor of 0.026 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.161 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U24 19.03 MMBtu/hr Diesel Emergency Generator, E2401, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS
Subpart IIII

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart 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 <= 7.81 lb/hr Particulate emission limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 7 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 8 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 9 | Hours of Operation <= 100 hr/yr for testing and maintenance. The 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 <= 19.03 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 11 | VOC (Total) <= 0.032 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | NOx (Total) <= 1.59 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | CO <= 0.086 tons/yr v. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | TSP <= 0.008 tons/yr 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) <= 0.008 tons/yr v. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | PM-2.5 (Total) <= 0.008 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|---|
| 17 | All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A). [40 CFR 60.4(a)] | None. | None. | Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)] |
| 18 | Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A). [40 CFR 60.4(b)] | None. | None. | Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)] |
| 19 | No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A). [40 CFR 60.12] | None. | None. | None. |
| 20 | The owner or operator shall notify the Administrator of the proposed replacement of components, 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)] |

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Facility Specific Requirements**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 21 | Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A). [40 CFR 60.19] | None. | None. | None. |
| 22 | The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power ≥ 37 kW (HP ≥ 50) and no greater than 3,000HP ($\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO _x ≤ 6.4 g/HP-hr, CO ≤ 3.5 g/HP-hr, PM ≤ 0.20 g/HP-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. |
| 23 | 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 1090.305 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- 8.13(d)] | 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- 8.13(d)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---|------------------------------|
| 24 | 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. |
| 25 | 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 60.4204(b) or 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). (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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 26 | 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. |

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

Emission Unit: U24 19.03 MMBtu/hr Diesel Emergency Generator, E2401, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.644 lb/hr based on manufacturer emission factor of 0.11 g/hp-hr for HC. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 2 | NOx (Total) <= 31.9 lb/hr based on manufacturer emission factor of 5.39 g/hp-hr for NOx. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | CO <= 1.71 lb/hr based on manufacturer emission factor of 0.29 g/hp-hr for CO. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | TSP <= 0.161 lb/hr based on manufacturer emission factor of 0.026 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.161 lb/hr based on manufacturer emission factor of 0.026 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.161 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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Facility Specific Requirements

Emission Unit: U25 7.84 MMBtu/hr Diesel Emergency Generator, E2501, 800 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart III

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart III [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 <= 4.7 lb/hr Particulate emission limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 7 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 8 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 9 | Hours of Operation <= 100 hr/yr for testing and maintenance. The 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 <= 7.84 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 11 | VOC (Total) <= 0.004 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | NOx (Total) <= 0.622 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | CO <= 0.027 tons/yr based on the permitted hours of operation per year. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | TSP <= 0.003 tons/yr 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) <= 0.003 tons/yr 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) <= 0.003 tons/yr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|---|
| 17 | All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A). [40 CFR 60.4(a)] | None. | None. | Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)] |
| 18 | Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A). [40 CFR 60.4(b)] | None. | None. | Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)] |
| 19 | No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A). [40 CFR 60.12] | None. | None. | None. |
| 20 | The owner or operator shall notify the Administrator of the proposed replacement of components, 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|------------------------------|
| 21 | Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A). [40 CFR 60.19] | None. | None. | None. |
| 22 | The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power ≥ 37 kW (HP ≥ 50) and no greater than 3,000HP ($\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO _x ≤ 6.4 g/HP-hr, CO ≤ 3.5 g/HP-hr, PM ≤ 0.20 g/HP-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. |
| 23 | 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 1090.305 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- 8.13(d)] | 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- 8.13(d)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---|------------------------------|
| 24 | 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. |
| 25 | 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 60.4204(b) or 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g). (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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 26 | 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. |

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

Emission Unit: U25 7.84 MMBtu/hr Diesel Emergency Generator, E2501, 800 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart III

Operating Scenario: OS1 Diesel emergency generator

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | VOC (Total) <= 0.075 lb/hr based on manufacturer emission factor of 0.03 g/hp-hr for HC. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 2 | NOx (Total) <= 12.4 lb/hr based on manufacturer emission factor of 5.26 g/hp-hr for NOx. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | CO <= 0.544 lb/hr based on manufacturer emission factor of 0.23 g/hp-hr for CO. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | SO2 <= 0.05 lb/hr. Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | TSP <= 0.054 lb/hr based on manufacturer emission factor of 0.024 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | PM-10 (Total) <= 0.054 lb/hr based on manufacturer emission factor of 0.024 g/hp-hr for PM. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | PM-2.5 (Total) <= 0.054 lb/hr based on the emissions limit of PM-10. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

Emission Unit: U27 3.43 MMBtu/hr Diesels Emergency Generator, E2701, 375 kW from BOP190001

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 1 | Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart III [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 <= 2.06 lb/hr Particulate emission limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |
| 4 | Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)] | Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)] | None. | None. | None. |
| 6 | Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|--|---|------------------------------|
| 7 | <p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>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,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p> | <p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) – (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p> | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 8 | <p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p> | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|---|--|--|
| 9 | Hours of Operation <= 100 hr/yr for testing and maintenance. The 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 <= 3.43 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)]. | None. |
| 11 | NOx (Total) <= 0.0888 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | CO <= 0.0046 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | 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)] |
| 14 | 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)] |

U27 3.43 MMBtu/hr Diesel Emergency Generator, E2701, 375 kW from BO

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|--|---|
| 15 | 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. |
| 16 | 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)] |
| 17 | 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. |
| 18 | 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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|---|--|------------------------------|
| 19 | 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. |
| 20 | 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. |

BOP200001

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 21 | 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. |
| 22 | A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (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. |
| 23 | The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power ≥ 37 kW (HP ≥ 50) and no greater than 3,000HP ($\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO _x ≤ 4 g/kW-hr, CO ≤ 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. |

U27 3.43 MMBtu/hr Diesel Emergency Generator, E2701, 375 kW from BO

OS Summary

BOP200001

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---|------------------------------|
| 24 | 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. |

BOP200001

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

Emission Unit: U27 3.43 MMBtu/hr Diesels Emergency Generator, E2701, 375 kW from BOP190001

Operating Scenario: OS1 3.434 MMBTU/hr (HHV) Emerg. Gen. (375 kW) Diesel fuel, 100 hrs/yr

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1 | NO _x (Total) <= 1.78 lb/hr based on manufacturer emission factor of 5.26 g/hp-hr for NO _x . [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 2 | CO <= 0.0917 lb/hr based on manufacturer emission factor of 0.23 g/hp-hr for CO. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | SO ₂ <= 0.05 lb/hr. Maximum emission rate of SO ₂ is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Veterans Affairs Medical Center, Lyons

Facility ID (AIMS): 36080

Street 151 KNOLLCROFT RD
Address: CODE 138D
LYONS, NJ 07939

Mailing 151 KNOLLCROFT RD
Address: CODE 138D
LYONS, NJ 07939

County: Somerset
Location
Description:

| | |
|---------------------------------|---------------|
| State Plane Coordinates: | |
| X-Coordinate: | 537,500 |
| Y-Coordinate: | 4,501,600 |
| Units: | Meters |
| Datum: | NAD27 |
| Source Org.: | Other/Unknown |
| Source Type: | Other/Unknown |

| | |
|-----------------------|--------|
| Industry: | |
| Primary SIC: | 8062 |
| Secondary SIC: | |
| NAICS: | 622110 |

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

Contact Type: Air Permit Information Contact

Organization: Veteran's Affairs Medical Center

Org. Type: Federal

Name: Richard Lundquist

NJ EIN: 12345678901

Title: Environmental Protection Specialist

Phone: (973) 676-1000 x2224

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: Richard.Lundquist@va.gov

Contact Type: BOP - Operating Permits

Organization: Veteran's Affairs Medical Center

Org. Type: Federal

Name: Richard Lundquist

NJ EIN: 12345678901

Title: Environmental Protection Specialist

Phone: (973) 676-1000 x2224

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: Richard.Lundquist@va.gov

Contact Type: Emission Statements

Organization: Veterans Affairs Medical Center

Org. Type: Federal

Name: William Hallman

NJ EIN: 00000000000

Title: Chief of Operations

Phone: (908) 647-0180 x4284

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: william.hallman@va.gov

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

Contact Type: Fees/Billing Contact

Organization: Veterans Affairs Medical Center

Org. Type: Federal

Name: William Hallman

NJ EIN: 00000000000

Title: Chief, Operations

Phone: (908) 647-0180 x4284

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: william.hallman@va.gov

Contact Type: General Contact

Organization: Veterans Affairs Medical Center

Org. Type: Federal

Name: William Hallman

NJ EIN: 00000000000

Title: Chief, Operations

Phone: (908) 647-0180 x4284

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: william.hallman@va.gov

Contact Type: NOx RACT Annual Adjust. Report Contact

Organization: Veteran's Affairs Medical Center

Org. Type: Federal

Name: Richard Lundquist

NJ EIN: 12345678901

Title: Environmental Protection Specialist

Phone: (973) 676-1000 x2224

Mailing Address: 151 Knollcroft Road
Bldg 10/Room 215A
Lyons, NJ 07939

Fax: () - x

Other: (862) 229-3292 x

Type:

Email: Richard.Lundquist@va.gov

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

Contact Type: On-Site Manager

Organization: Veteran Affairs Medical Center

Org. Type: Federal

Name: George Drummond

NJ EIN: 00000000000

Title: Chief Operations (Engineering Services)

Phone: (908) 647-0180 x4284

Mailing 151 Knollcroft Rd

Fax: (908) 604-5843 x

Address: Code 138D

Other: () - x

Lyons, NJ 07939

Type:

Email: george.drummond@va.gov

Contact Type: Operator

Organization: United States Government

Org. Type: Federal

Name: United States Government

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

Contact Type: Owner (Current Primary)

Organization: United States Government

Org. Type: Federal

Name: United States Government

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: Veterans Affairs Medical Center

Org. Type: Federal

Name: John Griffith

NJ EIN: 00000000000

Title: Associate Director

Phone: (908) 647-0180 x

Mailing Address: 151, Knollcroft Road

Fax: () - x

Code 138D

Other: () - x

Lyons, NJ 07939

Type:

Email: john.griffith@va.gov

Contact Type: Title V Compliance Certification Contact

Organization: Veteran Affairs Medical Center

Org. Type: Federal

Name: George Drummond

NJ EIN: 00000000000

Title: Chief Operations (Engineering Services)

Phone: (908) 647-0180 x4284

Mailing Address: 151 Knollcroft Rd

Fax: (908) 604-5843 x

Code 138D

Other: () - x

Lyons, NJ 07939

Type:

Email: george.drummond@va.gov

New Jersey Department of Environmental Protection
Insignificant Source Emissions

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---------|--|---------------------|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|--------------|---------------|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS1 | Emergency Generators, each unit > 37 kW (< 1 MMBtu/hr max. heat input) | Emergency Generator | Portable | 0.002 | 0.033 | 0.021 | 0.002 | 0.002 | 0.002 | 0.000 | 0.00010000 | |
| IS2 | Diesel Storage tanks, for emergency generators (<=10,000 gallons, vapor pressure < 0.02 psia) | Storage Vessel | Generator Locations | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00000000 | |
| IS3 | Gasoline AST, 1,000-gallon capacity (< 2,000 gallons) | Storage Vessel | Boiler Plant | 0.490 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.24000000 | |
| IS4 | 40,000 gallons of #2 Fuel Oil USTs Boiler Plant (> 10,000 gallons, vapor pressure < 0.02 psia) | Storage Vessel | Boiler Plant | 1.220 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.60000000 | |
| IS5 | 15,000-gallons Diesel Fuel UST, Bldg. 136 (> 10,000 gallons, vapor pressure < 0.02 psia) | Storage Vessel | Generator Locations | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00000000 | |

New Jersey Department of Environmental Protection
Insignificant Source Emissions

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---------|--|-----------------|-----------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|--------------|---------------|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS6 | Space Heater Combusting On-Specification Used Oil Covered by a Registration (< 1 MMBtu/hr max. rated heat input) | Other Equipment | Maintenance Area (Bldg. 49) | 0.000 | 0.130 | 0.030 | 0.180 | 0.010 | 0.010 | 0.000 | 0.00000000 | |
| Total | | | | 1.714 | 0.163 | 0.051 | 0.182 | 0.012 | 0.012 | 0.000 | 0.84010000 | 0.000 |

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

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand- Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|------------------------|-----------------------------------|---|-----------------------|-------------------------------|-------------------------|----------------------------|-----------------------------------|--------------------------|
| E301 | Generator129 | Diesel Generator 295 kW, Bld. 129 Standby for Bld. 1 | Emergency Generator | PCP000002 | | No | | |
| E401 | Generator130 | Diesel Generator 295 kW, Bld. 130 Standby for Bld. 2 & 9 | Emergency Generator | PCP000002 | 6/1/1983 | No | | |
| E501 | Generator131 | Diesel Generator 280 kW, Bld. 131 Standby for Bld. 3 & 4 | Emergency Generator | PCP000002 | 6/1/1982 | No | | |
| E601 | Generator132 | Diesel Generator 225 kW, Bld. 132 Standby for Bld. 7 & 8 | Emergency Generator | PCP000002 | 6/1/1981 | No | | |
| E701 | Generator133 | Diesel Generator 175 kW, Bld. 133 Standby for Bld. 54 | Emergency Generator | PCP000002 | 6/1/1982 | No | | |
| E801 | Generator134 | Diesel Generator 365 kW, Bld. 134 Standby for Bld.13 & 14 | Emergency Generator | PCP000002 | 6/1/1981 | No | | |
| E1001 | Generator140 | Diesel Generator 300 kW, Bld. 140 Standby for Bld.57 & 58 | Emergency Generator | PCP000002 | 6/1/1983 | No | | |
| E1201 | Generator141 | Diesel Generator 100 kW, Bld.141 Standby for Bld.141 | Emergency Generator | PCP000002 | 6/1/1987 | No | | |
| E1301 | Generator138 | Diesel Generator 250 kW, Bld.138 Standby for Bld. 53 | Emergency Generator | PCP000002 | 6/1/1983 | No | | |

BOP200001

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

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand- Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|------------------------|-----------------------------------|---|-----------------------|-------------------------------|-------------------------|----------------------------|-----------------------------------|--------------------------|
| E1601 | Generator142 | Diesel Generator 350 kW, Bld. 142 Standby for Blds.10 & 11 & 12 | Emergency Generator | PCP000002 | | No | | |
| E1701 | Boiler#3 | Boiler#3 28.3 MMBTU/HR Nat. Gas/Fuel Oil #2 | Boiler | PCP040001 | 1/15/1993 | No | | |
| E1801 | Boiler#4 | Boiler#4 28.3 MMBTU/HR Nat. Gas/Fuel Oil #2 | Boiler | PCP040001 | 9/15/1992 | No | | |
| E1901 | Boiler#2 | Boiler#2 28.3 MMBTU/HR Nat. Gas/Fuel Oil #2 | Boiler | PCP040001 | 3/15/1993 | No | | |
| E2001 | Boiler#1 | Boiler#1 28.3 MMBTU/HR Nat. Gas/Fuel Oil #2 | Boiler | PCP040001 | 10/19/1995 | No | | |
| E2101 | Boiler#5 | Boiler#5 28.3 MMBTU/HR Nat. Gas/Fuel Oil #2 | Boiler | PCP040001 | 10/19/1995 | No | | |
| E2201 | Generator144 | Diesel Generator 600 kW, Bld. 144 Standby for Bld.143 | Emergency Generator | PCP000002 | 3/1/1997 | No | | |
| E2301 | Generator136 | Diesel Generator #1 2000kW, Bldg 136 Standby for Bldg136 | Emergency Generator | BOP090001 | 4/1/2009 | No | | |
| E2401 | Generator136 | Diesel Generator #2 2000 kW, Bldg 136 Standby for Bldg 136 | Emergency Generator | BOP090001 | 3/1/2009 | No | | |

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

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand- Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|------------------------|-----------------------------------|--|-----------------------|-------------------------------|-------------------------|----------------------------|-----------------------------------|--------------------------|
| E2501 | Generator135 | Diesel Generator 800 kW, Bldg 135 Standby for Bldg 135 | Emergency Generator | BOP090001 | 5/1/2009 | No | | |
| E2701 | MoEmGen | 3.434 MMBTU/hr (HHV) Emerg. Gen. (375 kW) from BOP190001 | Emergency Generator | BOP190001 | 2/1/2018 | | | |

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

| | |
|--|-----------------------------------|
| Make: | Cummins |
| Manufacturer: | Winco |
| Model: | B260CDS-4R/A, Serial No: 45240U82 |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 2.4 |
| 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? | |
| Have you attached any manufacturer's data or specifications which may aid in the review of this application? | |
| Comments: | |

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

| | |
|--|---------------------------------------|
| Make: | Cummins Engine |
| Manufacturer: | Winco |
| Model: | B175CDS-4R/A, Serial No: 45238U82 |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 1.71 |
| Will the equipment be used in excess of 500 hours per year? | No, will be used for 100 hrs per year |
| Have you attached a diagram showing the location and/or configuration of this equipment? | |
| Have you attached any manufacturer's data or specifications which may aid in the review of this application? | |
| Comments: | |

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Caterpillar"/> |
| Model: | <input type="text" value="SR4, Serial No: 5LA03890"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr): | <input type="text" value="3.01"/> |
| Will the equipment be used in excess of 500 hours per year? | <input type="text" value="No, Will be used for 100 hrs/year"/> |
| Have you attached a diagram showing the location and/or configuration of this equipment? | <input type="text"/> |
| Have you attached any manufacturer's data or specifications which may aid in the review of this application? | <input type="text"/> |
| Comments: | <input type="text" value="300 kW engine"/> |

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Caterpillar"/> |
| Model: | <input type="text" value="3208, Serial No: 29A01314"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr): | <input type="text" value="1.06"/> |
| Will the equipment be used in excess of 500 hours per year? | <input type="text" value="No, Will be used for 100 hrs/year"/> |
| Have you attached a diagram showing the location and/or configuration of this equipment? | <input type="text"/> |
| Have you attached any manufacturer's data or specifications which may aid in the review of this application? | <input type="text"/> |
| Comments: | <input type="text" value="100 kW generator"/> |

| | |
|--|---------------------------------------|
| Make: | |
| Manufacturer: | Caterpillar |
| Model: | SR4, Serial No: 5HA04432 |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 2.4 |
| Will the equipment be used in excess of 500 hours per year? | No, Will be used for 100 hrs per year |
| Have you attached a diagram showing the location and/or configuration of this equipment? | |
| Have you attached any manufacturer's data or specifications which may aid in the review of this application? | |
| Comments: | 250 kW generator |

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E1701 (Boiler)
Print Date: 12/28/2021

| | |
|--|--|
| Make: | <input type="text" value="Cleaver Brooks"/> |
| Manufacturer: | <input type="text" value="Cleaver Brooks"/> |
| Model: | <input type="text" value="CB200-700, Serial No: L-90892"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr - HHV): | <input type="text" value="28.30"/> |
| Boiler Type: | <input type="text" value="Fire Tube"/> |
| Utility Type: | <input type="text" value="Utility"/> |
| Output Type: | <input type="text" value="Steam Only"/> |
| Steam Output (lb/hr): | <input type="text"/> |
| Fuel Firing Method: | <input type="text" value="Wall-fired or cross-fired"/> |
| Description (if other): | <input type="text"/> |
| Draft Type: | <input type="text" value="Forced"/> |
| Heat Exchange Type: | <input type="text"/> |

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

| | | |
|-------------------------------|--------------------------|----------------------------------|
| Low NOx Burner: | <input type="checkbox"/> | Type: <input type="text"/> |
| Staged Air Combustion: | <input type="checkbox"/> | |
| Flue Gas Recirculation (FGR): | <input type="checkbox"/> | Amount (%): <input type="text"/> |

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

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

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E1801 (Boiler)
Print Date: 12/28/2021

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Cleaver Brooks"/> |
| Model: | <input type="text" value="CB-200-700, Serial No: L90890"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr - HHV): | <input type="text" value="28.30"/> |
| Boiler Type: | <input type="text" value="Fire Tube"/> |
| Utility Type: | <input type="text" value="Utility"/> |
| Output Type: | <input type="text" value="Steam Only"/> |
| Steam Output (lb/hr): | <input type="text"/> |
| Fuel Firing Method: | <input type="text" value="Wall-fired or cross-fired"/> |
| Description (if other): | <input type="text"/> |
| Draft Type: | <input type="text" value="Forced"/> |
| Heat Exchange Type: | <input type="text"/> |

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

| | | |
|-------------------------------|--------------------------|----------------------------------|
| Low NOx Burner: | <input type="checkbox"/> | Type: <input type="text"/> |
| Staged Air Combustion: | <input type="checkbox"/> | |
| Flue Gas Recirculation (FGR): | <input type="checkbox"/> | Amount (%): <input type="text"/> |

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

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

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E1901 (Boiler)
Print Date: 12/28/2021

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Cleaver Brooks"/> |
| Model: | <input type="text" value="CB200-700, Serial No: L-90891"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr - HHV): | <input type="text" value="28.30"/> |
| Boiler Type: | <input type="text" value="Fire Tube"/> |
| Utility Type: | <input type="text" value="Utility"/> |
| Output Type: | <input type="text" value="Steam Only"/> |
| Steam Output (lb/hr): | <input type="text"/> |
| Fuel Firing Method: | <input type="text" value="Wall-fired or cross-fired"/> |
| Description (if other): | <input type="text"/> |
| Draft Type: | <input type="text" value="Forced"/> |
| Heat Exchange Type: | <input type="text"/> |

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

| | | |
|-------------------------------|--------------------------|----------------------------------|
| Low NOx Burner: | <input type="checkbox"/> | Type: <input type="text"/> |
| Staged Air Combustion: | <input type="checkbox"/> | |
| Flue Gas Recirculation (FGR): | <input type="checkbox"/> | Amount (%): <input type="text"/> |

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

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

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E2001 (Boiler)
Print Date: 12/28/2021

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Cleaver Brooks"/> |
| Model: | <input type="text" value="CB-LE, Serial No:0L094345"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr - HHV): | <input type="text" value="28.30"/> |
| Boiler Type: | <input type="text" value="Fire Tube"/> |
| Utility Type: | <input type="text" value="Utility"/> |
| Output Type: | <input type="text" value="Steam Only"/> |
| Steam Output (lb/hr): | <input type="text"/> |
| Fuel Firing Method: | <input type="text" value="Wall-fired or cross-fired"/> |
| Description (if other): | <input type="text"/> |
| Draft Type: | <input type="text" value="Forced"/> |
| Heat Exchange Type: | <input type="text"/> |

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

| | | |
|-------------------------------|--------------------------|----------------------------------|
| Low NOx Burner: | <input type="checkbox"/> | Type: <input type="text"/> |
| Staged Air Combustion: | <input type="checkbox"/> | |
| Flue Gas Recirculation (FGR): | <input type="checkbox"/> | Amount (%): <input type="text"/> |

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

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

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E2101 (Boiler)
Print Date: 12/28/2021

| | |
|--|--|
| Make: | <input type="text"/> |
| Manufacturer: | <input type="text" value="Cleaver Brooks"/> |
| Model: | <input type="text" value="CB-LE, Serial No:0L094344"/> |
| Maximum Rated Gross Heat Input (MMBtu/hr - HHV): | <input type="text" value="28.30"/> |
| Boiler Type: | <input type="text" value="Fire Tube"/> |
| Utility Type: | <input type="text" value="Utility"/> |
| Output Type: | <input type="text" value="Steam Only"/> |
| Steam Output (lb/hr): | <input type="text"/> |
| Fuel Firing Method: | <input type="text" value="Wall-fired or cross-fired"/> |
| Description (if other): | <input type="text"/> |
| Draft Type: | <input type="text" value="Forced"/> |
| Heat Exchange Type: | <input type="text"/> |

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

| | | |
|-------------------------------|--------------------------|----------------------------------|
| Low NOx Burner: | <input type="checkbox"/> | Type: <input type="text"/> |
| Staged Air Combustion: | <input type="checkbox"/> | |
| Flue Gas Recirculation (FGR): | <input type="checkbox"/> | Amount (%): <input type="text"/> |

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

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

Comments:

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

Will the equipment be used in excess of 500 hours per year?

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

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

36080 VANJHCS LYONS CAMPUS BOP200001 E2301 (Emergency Generator)
Print Date: 12/28/2021

| | | |
|--|--|---|
| Make: | <input type="text" value="Caterpillar"/> | |
| Manufacturer: | <input type="text" value="Caterpillar"/> | |
| Model: | <input type="text" value="3516C TA, Serial No: SBJ00750"/> | |
| Maximum rated Gross Heat Input (MMBtu/hr-HHV): | <input type="text" value="19.03"/> | |
| Will the equipment be used in excess of 500 hours per year? | <input type="radio"/> Yes <input checked="" type="radio"/> No | |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | <input type="radio"/> Yes <input checked="" type="radio"/> No | Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Comments: | | |

36080 VANJHCS LYONS CAMPUS BOP200001 E2401 (Emergency Generator)
Print Date: 12/28/2021

| | |
|---|--|
| Make: | Caterpillar |
| Manufacturer: | Caterpillar |
| Model: | 3516C TA |
| Maximum rated Gross Heat Input (MMBtu/hr-HHV): | 19.03 |
| Will the equipment be used in excess of 500 hours per year? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Comments: | |

36080 VANJHCS LYONS CAMPUS BOP200001 E2501 (Emergency Generator)
Print Date: 12/28/2021

Make: Caterpillar
Manufacturer: Caterpillar
Model: C27TA

Maximum rated Gross Heat
Input (MMBtu/hr-HHV): 7.84

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:

36080 VANJHCS LYONS CAMPUS BOP200001 E2701 (Emergency Generator)
Print Date: 12/28/2021

| | | | |
|--|---|---|---|
| Make: | <input type="text" value="Caterpillar"/> | | |
| Manufacturer: | <input type="text" value="Caterpillar (2017)"/> | | |
| Model: | <input type="text" value="SR4B-C13 (2017) Model Year"/> | | |
| Maximum rated Gross Heat Input (MMBtu/hr-HHV): | <input type="text" value="3.43"/> | | |
| Will the equipment be used in excess of 500 hours per year? | <input type="radio"/> Yes <input type="radio"/> No | | |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | <input type="radio"/> Yes <input type="radio"/> No | Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? | <input type="radio"/> Yes <input type="radio"/> No |
| Comments: | <input type="text" value="375 kW"/> <input type="text" value="520 HP"/> <input type="text" value="Displacement per cylinder: 6 L"/> | | |

New Jersey Department of Environmental Protection
Emission Points Inventory

| PT NJID | Facility's Designation | Description | Config. | Equiv. Diam. (in.) | Height (ft.) | Dist. to Prop. Line (ft) | Exhaust Temp. (deg. F) | | | Exhaust Vol. (acfm) | | | Discharge Direction | PT Set ID |
|------------|---------------------------|-------------------------------------|---------|--------------------------|-----------------|--------------------------------|------------------------|-------|-------|---------------------|---------|---------|------------------------|--------------|
| | | | | | | | Avg. | Min. | Max. | Avg. | Min. | Max. | | |
| PT3 | Stack#129 | Stack for Generator in Building 129 | Round | 8 | 19 | 1,000 | 950.0 | 950.0 | 950.0 | 2,200.0 | 2,200.0 | 2,200.0 | Horizontal | |
| PT4 | Stack#130 | Stack for Generator in Building 130 | Round | 8 | 19 | 800 | 950.0 | 950.0 | 950.0 | 2,200.0 | 2,200.0 | 2,200.0 | Horizontal | |
| PT5 | Stack#131 | Stack for Generator in Building 131 | Round | 8 | 11 | 800 | 950.0 | 950.0 | 950.0 | 2,200.0 | 2,200.0 | 2,200.0 | Horizontal | |
| PT6 | Stack#132 | Stack for Generator in Building 132 | Round | 8 | 19 | 600 | 950.0 | 950.0 | 950.0 | 1,690.0 | 1,690.0 | 1,690.0 | Horizontal | |
| PT7 | Stack#133 | Stack for Generator in Building 133 | Round | 8 | 12 | 550 | 950.0 | 950.0 | 950.0 | 1,690.0 | 1,690.0 | 1,690.0 | Horizontal | |
| PT8 | Stack#134 | Stack for Generator in Building 134 | Round | 8 | 19 | 550 | 950.0 | 950.0 | 950.0 | 1,690.0 | 1,690.0 | 1,690.0 | Horizontal | |
| PT10 | Stack#140 | Stack for Generator in Building 140 | Round | 8 | 14 | 600 | 850.0 | 850.0 | 850.0 | 2,910.0 | 2,910.0 | 2,910.0 | Up | |
| PT12 | Stack#141 | Stack for Generator in Building 141 | Round | 4 | 9 | 900 | 680.0 | 680.0 | 680.0 | 2,200.0 | 2,200.0 | 2,200.0 | Horizontal | |
| PT13 | Stack#138 | Stack for Generator in Building 138 | Round | 8 | 14 | 400 | 950.0 | 950.0 | 950.0 | 2,200.0 | 2,200.0 | 2,200.0 | Up | |
| PT16 | Stack#142 | Stack for Generator in Building 142 | Round | 6 | 10 | 600 | 950.0 | 950.0 | 950.0 | 4,130.0 | 4,130.0 | 4,130.0 | Horizontal | |
| PT17 | 14-3 | Stack for Boiler #3 | Round | 24 | 36 | 500 | 500.0 | 500.0 | 500.0 | 9,800.0 | 9,800.0 | 9,800.0 | Up | |
| PT18 | 14-4 | Stack for Boiler #4 | Round | 24 | 36 | 500 | 500.0 | 500.0 | 500.0 | 9,800.0 | 9,800.0 | 9,800.0 | Up | |
| PT19 | 14-2 | Stack for Boiler #2 | Round | 24 | 36 | 500 | 500.0 | 500.0 | 500.0 | 9,800.0 | 9,800.0 | 9,800.0 | Up | |
| PT20 | 14-1 | Stack for Boiler #1 | Round | 24 | 38 | 500 | 600.0 | 600.0 | 600.0 | 9,800.0 | 9,800.0 | 9,800.0 | Up | |
| PT21 | 14-5 | Stack for Boiler #5 | Round | 24 | 38 | 500 | 600.0 | 600.0 | 600.0 | 9,800.0 | 9,800.0 | 9,800.0 | Up | |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

New Jersey Department of Environmental Protection
Emission Points Inventory

| PT NJID | Facility's Designation | Description | Config. | Equiv. Diam. (in.) | Height (ft.) | Dist. to Prop. Line (ft) | Exhaust Temp. (deg. F) | | | Exhaust Vol. (acfm) | | | Discharge Direction | PT Set ID |
|------------|---------------------------|--|---------|--------------------------|-----------------|--------------------------------|------------------------|-------|-------|---------------------|---------|----------|------------------------|--------------|
| | | | | | | | Avg. | Min. | Max. | Avg. | Min. | Max. | | |
| PT22 | Stack#144 | Stack for Generator in Building 144 | Round | 10 | 25 | 800 | 930.0 | 930.0 | 930.0 | 5,307.0 | 5,307.0 | 5,307.0 | Horizontal | |
| PT23 | Stack1# 136 | Stack for Generator in Building 136 | Round | 8 | 14 | 500 | 685.8 | 540.5 | 761.7 | 12,339.0 | 4,516.8 | 15,135.9 | Up | |
| PT24 | Stack2#136 | Stack for Second Generator in Building 136 | Round | 8 | 14 | 500 | 685.8 | 540.5 | 761.7 | 12,339.0 | 4,516.8 | 15,135.9 | Up | |
| PT25 | Stack#135 | Stack of Generator in Building 135 | Round | 8 | 14 | 500 | 914.4 | 544.6 | 955.0 | 5,064.1 | 1,719.8 | 6,045.9 | Up | |
| PT27 | MoEmGen | Emerg. Gen. E2701 Stack | Round | 8 | 6 | 500 | 865.0 | 846.9 | 880.0 | 560.0 | 558.9 | 565.7 | Horizontal | |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 3 Generator129 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 129, standby for Bld. 1

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator129 | Diesel emergency generator | Standby | E301 | | PT3 | 2-02-001-02 | 26.0 | 100.0 | | 2,200.0 | 2,240.0 | 950.0 | 950.0 |

U 4 Generator130 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 130, standby for Bld. 2 & 9

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator130 | Diesel emergency generator | Standby | E401 | | PT4 | 2-02-001-02 | 26.0 | 100.0 | | 2,200.0 | 2,200.0 | 950.0 | 950.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 5 Generator131 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 131, standby for Blds. 3 & 4

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator131 | Diesel emergency generator | Standby | E501 | | PT5 | 2-02-001-02 | 26.0 | 100.0 | | 2,200.0 | 2,200.0 | 950.0 | 950.0 |

U 6 Generator132 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 132, standby for Blds. 7 & 8

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator132 | Diesel emergency generator | Standby | E601 | | PT6 | 2-02-001-02 | 26.0 | 100.0 | | 1,690.0 | 1,690.0 | 950.0 | 950.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 7 Generator133 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 133, standby for Bld. 54

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator133 | Diesel emergency generator | Standby | E701 | | PT7 | 2-02-001-02 | 26.0 | 100.0 | | 1,690.0 | 1,690.0 | 950.0 | 950.0 |

U 8 Generator134 1.71 MMBtu/hr Diesel Emergency Generator located in Bld. 134, standby for Bld. 13 & 14

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator134 | Diesel emergency generator | Standby | E801 | | PT8 | 2-02-001-02 | 26.0 | 100.0 | | 1,690.0 | 1,690.0 | 950.0 | 950.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 10 Generator140 3.01 MMBtu/hr Diesel Emergency Generator located in Bld. 140, standby for Blds. 57 & 58

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator140 | Diesel emergency generator | Standby | E1001 | | PT10 | 2-02-001-02 | 26.0 | 100.0 | | 2,910.0 | 2,910.0 | 850.0 | 850.0 |

U 12 Generator141 1.06 MMBtu/hr Diesel Emergency Generator located in Bld. 141, standby for Bld. 141

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator141 | Diesel emergency generator | Standby | E1201 | | PT12 | 2-02-001-02 | 26.0 | 100.0 | | 2,200.0 | 2,200.0 | 680.0 | 680.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 13 Generator138 2.4 MMBtu/hr Diesel Emergency Generator located in Bld. 138, standby for Bld. 53

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator138 | Diesel emergency generator | Standby | E1301 | | PT13 | 2-02-001-02 | 26.0 | 100.0 | | 2,200.0 | 2,200.0 | 950.0 | 950.0 |

U 16 Generator142 4.46 MMBtu/hr Diesel Emergency Generator located in Bld. 142, standby for Blds. 10, 11 & 12

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator142 | Diesel emergency generator | Standby | E1601 | | PT16 | 2-02-001-02 | 26.0 | 100.0 | | 4,130.0 | 4,130.0 | 950.0 | 950.0 |

U 17 Boiler #3 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Boiler3 (NG) | Natural Gas is used as the main fuel, dual fuel burner | Normal - Steady State | E1701 | | PT17 | 1-02-006-02 | 0.0 | 2,080.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 17 Boiler #3 28.3 MMBtu/hr, NG Boiler #3, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|---|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS2 | Boiler3 (FO) | Fuel Oil #2, dual fuel burner, emergency use only | Normal - Steady State | E1701 | | PT17 | 1-02-005-01 | 0.0 | 48.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |

U 18 Boiler #4 28.3 MMBtu/hr, NG Boiler #4, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Boiler4 (NG) | Natural Gas is used as the main fuel, dual fuel burner | Normal - Steady State | E1801 | | PT18 | 1-02-006-02 | 0.0 | 2,080.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |
| OS2 | Boiler4 (FO) | Fuel Oil #2, dual fuel burner, emergency use only | Normal - Steady State | E1801 | | PT18 | 1-02-005-01 | 0.0 | 48.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 19 Boiler #2 28.3 MMBtu/hr, NG Boiler #2, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Boiler2 (NG) | Natural Gas is used as the main fuel, dual fuel burner | Normal - Steady State | E1901 | | PT19 | 1-02-006-02 | 0.0 | 2,080.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |
| OS2 | Boiler2 (FO) | Fuel Oil #2, dual fuel burner, emergency use only | Normal - Steady State | E1901 | | PT19 | 1-02-005-01 | 0.0 | 48.0 | | 9,800.0 | 9,800.0 | 500.0 | 500.0 |

U 20 Boiler #1 28.3 MMBtu/hr, NG Boiler #1, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Boiler1 (NG) | Natural Gas is used as the main fuel, dual fuel burner | Normal - Steady State | E2001 | | PT20 | 1-02-006-02 | 0.0 | 2,080.0 | | 9,800.0 | 9,800.0 | 600.0 | 600.0 |
| OS2 | Boiler1 (FO) | Fuel Oil #2, dual fuel burner, emergency use only | Normal - Steady State | E2001 | | PT20 | 1-02-005-01 | 0.0 | 48.0 | | 9,800.0 | 9,800.0 | 600.0 | 600.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 21 Boiler #5 28.3 MMBtu/hr, NG Boiler #5, Steam Production, Building 14-Boiler Plant (FO#2 emergency use only), subject to NSPS Subpart Dc

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Boiler5 (NG) | Natural Gas is used as the main fuel, dual fuel burner | Normal - Steady State | E2101 | | PT21 | 1-02-006-02 | 0.0 | 2,080.0 | | 9,800.0 | 9,800.0 | 600.0 | 600.0 |
| OS2 | Boiler5 (FO) | Fuel Oil #2, dual fuel burner, emergency use only | Normal - Steady State | E2101 | | PT21 | 1-02-005-01 | 0.0 | 48.0 | | 9,800.0 | 9,800.0 | 600.0 | 600.0 |

U 22 Generator144 7.0 MMBtu/hr Diesel Emergency Generator located in Bld. 144, standby for Bld. 143

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator144 | Diesel emergency generator | Standby | E2201 | | PT22 | 2-02-001-02 | 26.0 | 100.0 | | 5,307.0 | 5,307.0 | 930.0 | 930.0 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 23 Generator136 19.03 MMBtu/hr Diesel Emergency Generator, E2301, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart III

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|----------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator136 | Diesel Emergency generator | Standby | E2301 | | PT23 | 2-02-001-02 | 26.0 | 100.0 | | | 15,135.9 | | 761.7 |

U 24 Generator136 19.03 MMBtu/hr Diesel Emergency Generator, E2401, 2000 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart III

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|----------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator136 | Diesel emergency generator | Standby | E2401 | | PT24 | 2-02-001-02 | 26.0 | 100.0 | | | 15,135.9 | | 761.7 |

VANJHCS LYONS CAMPUS (36080)
BOP200001

Date: 8/5/2022

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

U 25 Generator135 7.84 MMBtu/hr Diesel Emergency Generator, E2501, 800 kW, 2008 model year, displacement < 10 liters/cylinder, subject to NSPS Subpart IIII

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|----------------------------|-------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Generator135 | Diesel emergency generator | Standby | E2501 | | PT25 | 2-02-001-02 | 26.0 | 100.0 | | | 6,045.9 | | 955.0 |

U 27 MoEmGen 3.43 MMBtu/hr Diesel Emergency Generator, E2701, 375 kW from BOP190001

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|---|-----------------------|-------------------|----------------------|----------------------|-------------|-----------------------|-------|--------------|----------------|-------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | MoEmGen | 3.434 MMBTU/hr (HHV) Emerg. Gen. (375 kW) Diesel fuel, 100 hrs/yr | Normal - Steady State | E2701 | | PT27 | 2-01-001-02 | 0.0 | 100.0 | | 558.9 | 565.7 | 846.9 | 880.0 |