State of New Jersey
Department of Environmental Protection
Air, Energy and Materials Sustainability
Division of Air Quality
Bureau of Stationary Sources
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

SHAWN M. LATOURETTE
COMMISSIONER

Air Pollution Control Operating Permit
Significant Modification

Permit Activity Number: BOP220001 **Program Interest Number: 21323**

Mailing Address	Plant Location
MICHAEL WUNSCH DIR OF COMPLIANCE MONMOUTH CNTY UNIVERSITY 400 CEDAR AVE West Long Branch, NJ 07764	MONMOUTH UNIVERSITY 400 Cedar Ave West Long Branch Monmouth County

Initial Operating Permit Approval Date: **October 19, 2004**

Operating Permit Approval Date: **Proposed**

Operating Permit Expiration Date: **October 18, 2019 (operating under permit shield)**

AUTHORITY AND APPLICABILITY

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

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

Consequently, pursuant to N.J.A.C. 7:27-22.33, all preconstruction permits, and operating certificates issued to this facility have been incorporated in this operating permit. 7:27-22.33.

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

PERMIT SHIELD

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

COMPLIANCE SCHEDULES

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

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

ACCESSING PERMITS

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

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Francis McFadden at (609) 940-4493.

Approved by:

_____
Aliya M. Khan

Enclosure

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

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

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Section A

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

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

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	1.58	36.5	24.5	27.4	2.35	2.35	2.35	N/A	N/A	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	1.58	36.5	24.5	27.4	2.35	2.35	2.35	N/A	N/A	60,168

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

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Insignificant Source Operations	0.82	14.3	10.7	0.122	0.989	0.989	0.989	N/A	N/A
Non-Source Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

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

Section A

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

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

HAP	TPY
N/A	N/A

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

Other Air Contaminant	TPY
N/A	N/A

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

Section B

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]

2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:

   a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:

      i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and

      ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or

   b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or

   c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]

3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]

4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]

5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]

7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]

8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]

9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]

10. a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.

    b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:

        i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and

        ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website https://dep.nj.gov/boss/applications-and-forms/ (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

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

21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

    i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and

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

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

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

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

Section C

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

STATE-ONLY APPLICABLE REQUIREMENTS

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

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

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

Facility Name: MONMOUTH UNIVERSITY
Program Interest Number: 21323
Permit Activity Number: BOP220001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

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U27	Library	Guggenheim Library Boilers #1 & #2 (Two 2.34 MMBtu/hr boilers venting to one stack PT 27)	77
U30	MAC EG	MAC 300 kW Emergency Generator burning Diesel Fuel, 2009 Model Year, displacement < 10 liters/cylinder	79
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MONMOUTH UNIVERSITY (21323)
BOP220001

Date: 6/13/2023

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 160004

Description of Modifications: MU is replacing equipment for previously assigned U25/E2501/PT25 Facilities Management 2,000-gallon gasoline AST with a new, 2,000-gallon gasoline AST now labled U50/E50/PT50.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS82 500-gallon diesel AST (<=10,000 gallons, vapor pressure < 0.02 psia), IS106 10 Norwood Avenue Elevator AST - 160-gal hydraulic oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS83 Police Station Emergency Generator - combustion unit (< 1 MMBtu/hr max. heat input), IS84 Cedar Ave. Tunnel Emergency Generator - combustion unit (< 1 MMBtu/hr max. heat input), IS92 Woodrow Wilson Hall Emergency Generator (< 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 <= 500 ppmw (0.05% by weight) for Zone 4. Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight) for Zone 4. 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. [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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. Each emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information if maximum rated output is 37 kW or greater: 1. Once per month, the total operating time from the generator's hour meter. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-19.11(a)] and. [N.J.A.C. 7:27-19.11(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
7	The Permittee shall, once per month, record the total operating time from the emergency generator's hour meter if maximum rated output is 37 kW or greater. [N.J.A.C. 7:27-19.11]	Monitored by hour/time monitor continuously . [N.J.A.C. 7:27-22.16(o)]	Other: The Permittee shall maintain on site and record in a logbook or computer data system the total operating time from the generator's hour meter. Once per month. [N.J.A.C. 7:27-19.11].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS115 Laboratory Hoods (each <=50 lb/hr raw material process rate)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS116 Doherty House Emergency Generator (35 kW - NG), 2013 model year (< 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. Each emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information if maximum rated output is 37 kW or greater: 1. Once per month, the total operating time from the generator's hour meter. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-19.11(a)] and. [N.J.A.C. 7:27-19.11(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
4	The owner or operator of the new emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of 25 < HP < 130 (19 < kW < 100) combusting natural gas or lean burn Liquefied Petroleum Gas (LPG), manufactured on or after January 1, 2009 must comply with the emissions standards in Table 1 of 40 CFR 60 Subpart JJJJ as follows: HC+NOx <= 10 g/HP-hr, CO <= 387 g/HP-hr. (NSPS Subpart JJJJ) [40 CFR 60.4233(d)]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator of a SI ICE engine must keep documentation from the manufacturer that the engine is certified to meet the emission standards.[40 CFR 60.4245(a)(3)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) must operate and maintain SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. (NSPS Subpart JJJJ) [40 CFR 60.4234]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards.[40 CFR 60.4245(a)(4)].	None.
6	Emergency stationary spark ignition internal combustion engine (SI ICE) may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. (NSPS Subpart JJJJ) [40 CFR 60.4243(d)]	Other: Monitored by hours of operation. The owner or operator must install a non-resettable hour meter.[40 CFR 60.4237].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.[40 CFR 60.4245(b)].	None.
7	For owners and operators of emergency engines, any operation other than emergency operation and maintenance and testing, as permitted in 40 CFR 60.4243(d), is prohibited. (NSPS Subpart JJJJ) [40 CFR 60.4243(d)]	Other: Monitored by hours of operation.[40 CFR 60.4245(b)].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.[40 CFR 60.4245(b)].	None.
8	Owners and operators of stationary natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. [40 CFR 60.4243(e)]	Other: Monitored by hours of operation.[40 CFR 60.4243(e)].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.[40 CFR 60.6245(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Owners and operators of all stationary spark ignition internal combustion engines (SI ICE) must keep records of the information in 40 CFR 60.4245(a)(1) through (3) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; and for a certified engine, keep documentation from the manufacturer that the engine is certified. (NSPS Subpart JJJJ) [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (3) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; and (3) for a certified engine, keep documentation from the manufacturer that the engine is certified.[40 CFR 60.4245(a)].	None.
10	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. (NSPS Subpart JJJJ) [40 CFR 60.4246]	None.	None.	None.
11	A new or reconstructed stationary reciprocating internal combustion engine (RICE) located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines or 40 CFR 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT Subpart ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS JJJJ.[40 CFR 63].	Other: Comply with all applicable provisions at NSPS JJJJ.[40 CFR 63].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS121 Woodrow Wilson UST - 10,000 gallon UST (> 10,000 gallons, vapor pressure < 0.02 psia)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.
4	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank(s) can not be subject to any NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #4 to #10 above and (3) attests that the tank is in compliance with all other applicable State or Federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS124 IM Data Center Emergency Generator, 0.332 MMBtu/hr, Natural Gas, (< 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. Each emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information if maximum rated output is 37 kW or greater: 1. Once per month, the total operating time from the generator's hour meter. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-19.11(a)] and. [N.J.A.C. 7:27-19.11(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
4	The Permittee shall, once per month, record the total operating time from the emergency generator's hour meter if maximum rated output is 37 kW or greater. [N.J.A.C. 7:27-19.11]	Monitored by hour/time monitor continuously . [N.J.A.C. 7:27-22.16(o)]	Other: The Permittee shall maintain on site and record in a logbook or computer data system the total operating time from the generator's hour meter. Once per month. [N.J.A.C. 7:27-19.11].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS125 School of Science HWHs (2) (< 1 MMBtu/hr max. heat input)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS126 Guggenheim Library EG (39 kW) - NG (< 1 MMBtu/hr max. heat input), manufactured after January 1, 2009, subject to NSPS Subpart JJJJ**

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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. Each emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information if maximum rated output is 37 kW or greater: 1. Once per month, the total operating time from the generator's hour meter. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-19.11(a)] and. [N.J.A.C. 7:27-19.11(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.
4	The owner or operator of the new emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of 25 < HP < 130 (19 < kW < 100) combusting natural gas or lean burn Liquefied Petroleum Gas (LPG), manufactured on or after January 1, 2009 must comply with the emissions standards in Table 1 to 40 CFR 60 Subpart JJJJ as follows: HC+NOx <= 10 g/HP-hr, CO <= 387 g/HP-hr. (NSPS Subpart JJJJ) [40 CFR 60.4233(d)]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) must operate and maintain SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. (NSPS Subpart JJJJ) [40 CFR 60.4234]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
6	The owner or operator may not install emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of greater than 19 kW (25 HP) that do not meet the applicable requirements in 40 CFR 60.4233 after January 1, 2011, except for engines that have been modified or reconstructed or for engines that were removed from one existing location and reinstalled at a new location. (NSPS Subpart JJJJ) [40 CFR 60.4236(c)]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator must keep records of the documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)].	None.
7	The owner or operator of an emergency stationary spark ignition internal combustion engine (SI ICE) that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, must install a non-resettable hour meter upon startup of the emergency engine. (NSPS Subpart JJJJ) [40 CFR 60.4237(c)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter upon startup of the engine. [40 CFR 60.4245(b)]	Other: For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. [40 CFR 60.4245(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Emergency stationary spark ignition internal combustion engine (SI ICE) may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. (NSPS Subpart JJJJ) [40 CFR 60.4243(d)(2)(i)]	Other: Monitored by hours of operation. [40 CFR 60.4245(b)].	Other: The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b)].	None.
9	Owners and operators of all stationary spark ignition internal combustion engines (SI ICE) must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; maintenance conducted on the engine; for a certified engine, keep documentation from the manufacturer that the engine is certified; if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. (NSPS Subpart JJJJ) [40 CFR 60.4245(a)]	None.	Other: The owner or operators of all SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) as follows: (1) All notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification; (2) maintenance conducted on the engine; (3) for a certified engine, keep documentation from the manufacturer that the engine is certified; (4) if engine is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator of stationary spark ignition internal combustion engine (SI ICE) shall comply with the applicable General Provisions in 40 CFR 60 Subpart A as listed in Table 3 in 40 CFR 60 Subpart JJJJ. (NSPS Subpart JJJJ) [40 CFR 60.4246]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS127 Make-up Air Unit (< 1 MMBtu/hr max. heat input)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **GR1 Insignificant Sources: Small natural gas fired combustion equipment**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions from the combustion of fuel in any stationary indirect heat exchanger except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Student Center Boilers (Two 8.37 MMBtu/hr boilers venting to one stack PT1)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 5.02 lb/hr (per boiler). 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.

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 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: Lb/MMBTU = ppmvd * MW * F dry factor * O2 correction factor/387,000,000, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 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)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
5	Boilers fuel limited to Natural Gas, from BOP140001 [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 32.82 MMft^3 for any 12 consecutive months (amount combined for the two boilers). Annual fuel use limit for natural gas from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
7	Maximum Gross Heat Input <= 8.37 MMBTU/hr (HHV) (per boiler). Maximum heat input from preconstruction permit. [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.
8	NOx (Total) <= 1.64 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 1.38 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	TSP <= 0.125 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-10 (Total) <= 0.125 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1 Student Center Boilers (Two 8.37 MMBtu/hr boilers venting to one stack PT1)**
Operating Scenario: **OS1 Boiler #1 running on Natural Gas, OS2 Boiler #2 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.821 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	CO <= 0.689 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	TSP <= 0.062 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.062 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Maximum emission rates of VOC and SO2 from preconstruction permit are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22 [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	Other: Visual determination. Monthly when burning #2 fuel oil and none when burning natural gas. The permittee shall conduct visual opacity inspections of each stack during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and /or control device causing the emission is operating according to manufacturers specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27- 22.19. (2) If the corrective action taken in step one does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted once per day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual logging of observations in a permanently bound logbook or readily accessible electronic database. Monthly. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	None.
2	Boilers fuel limited to Natural Gas and #2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Fuel Oil Usage <= 52,080 gal/yr (combined amount for three boilers). Annual fuel use limit for #2 fuel oil per any consecutive 12 month period from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a logbook or readily accessible electronic database. Monthly. Gallons per consecutive 12-month period shall be calculated by the sum of the gallons consumed during any month added to the sum of the gallons consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	None.
4	NOx (Total) <= 4.39 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP070001 based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 3.552 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP070001 based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.744 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP070001 based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.019 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP070001 based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.019 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP070001 based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS1 Woodrow Wilson Hall Boiler #1 running on #2 Fuel Oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.18 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight) for Zone 4. Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight) for Zone 4. 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. [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	Maximum Gross Heat Input <= 3.64 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	NOx (Total) <= 0.52 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.13 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [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
8	SO2 <= 0.738 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP <= 0.052 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) <= 0.052 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum emission rate of VOC from Operating Permit Modification Application BOP070001 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.
12	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. (MACT Subpart A) [40 CFR 63.4(b)]	None.	None.	None.
13	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. (MACT Subpart A) [40 CFR 63.4(c)]	None.	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. (MACT Subpart A) [40 CFR 63.8(b)(1)]	None.	None.	None.
15	The owner or operator of an affected source shall notify the Administrator that the source becomes subject to a relevant standard. The notification shall include the information as specified in 40 CFR 63.9(b)(2). (MACT Subpart A) [40 CFR 63.9(b)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 120 calendar days after the source becomes subject to the relevant standard, if initial startup of the affected source is before the effective date of the standard. [40 CFR 63.9(b)(2)]
16	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. (MACT Subpart A) [40 CFR 63.9(h)(3)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. In addition, per 40 CFR 63.9(a)(4)(ii), the owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. (MACT Subpart A) [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]
18	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions (MACT Subpart JJJJJJ). [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The permittee shall conduct an initial tune-up no later than March 21, 2014 and subsequent biennial tune-ups no later than 25 months after the previous tune-up. The tune-ups shall be conducted, as required in Table 2 to 40 CFR Part 63, Subpart JJJJJJ, and in accordance with 40 CFR 63.11223(b) as follows: (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. As per 40 CFR 63.11223(b)(7), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup (MACT Subpart JJJJJJ). [40 CFR 63.11214(b)]	Monitored by periodic emission monitoring once initially and biennially. Measure the concentrations in the effluent stream of carbon monoxide (CO) in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and biennially. The permittee shall keep the following records for a period of 5 years following the date of each recorded action as per 40 CFR 63.11225(d) to document conformance with the biennial tune-up: Records identifying each boiler, the date of tune-up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.11225(c)(2)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]

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Facility Specific Requirements

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

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information: (1) Company name and address. (2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken (MACT Subpart JJJJJJ). [40 CFR 63.11225(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJJ due to a switch to 100 percent natural gas. The notice must be provided within 30 days of the change (MACT Subpart JJJJJJ). [40 CFR 63.11225(g)]	None.	None.	Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify: (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice. (2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS2 Woodrow Wilson hall Boiler #1 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.18 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Natural Gas Usage <= 31.26 MMft^3/yr. Annual fuel use limit for natural gas per any consecutive 12 month period from Operating Permit Modification Application BOP070001 based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 3.64 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [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	NOx (Total) <= 0.357 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.3 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum emission rates of VOC, SO2, TSP, and PM-10 from Operating Permit Modification Application BOP070001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS3 Woodrow Wilson Hall Boiler #2 running on #2 Fuel Oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.76 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight) for Zone 4. Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight) for Zone 4. 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. [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	Maximum Gross Heat Input <= 2.94 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	NOx (Total) <= 0.42 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.105 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [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
8	SO2 <= 0.596 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum emission rates of VOC, TSP, and PM-10 from Operating Permit Modification Application BOP070001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. (MACT Subpart A) [40 CFR 63.4(b)]	None.	None.	None.
11	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. (MACT Subpart A) [40 CFR 63.4(c)]	None.	None.	None.
12	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. (MACT Subpart A) [40 CFR 63.8(b)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The owner or operator of an affected source shall notify the Administrator that the source becomes subject to a relevant standard. The notification shall include the information as specified in 40 CFR 63.9(b)(2). (MACT Subpart A) [40 CFR 63.9(b)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 120 calendar days after the source becomes subject to the relevant standard, if initial startup of the affected source is before the effective date of the standard. [40 CFR 63.9(b)(2)]
14	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. (MACT Subpart A) [40 CFR 63.9(h)(3)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. In addition, per 40 CFR 63.9(a)(4)(ii), the owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. (MACT Subpart A) [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]
16	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions (MACT Subpart JJJJJJ). [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The permittee shall conduct an initial tune-up no later than March 21, 2014 and subsequent biennial tune-ups no later than 25 months after the previous tune-up. The tune-ups shall be conducted, as required in Table 2 to 40 CFR Part 63, Subpart JJJJJJ, and in accordance with 40 CFR 63.11223(b) as follows: (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. As per 40 CFR 63.11223(b)(7), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup (MACT Subpart JJJJJJ). [40 CFR 63.11214(b)]	Monitored by periodic emission monitoring once initially and biennially. Measure the concentrations in the effluent stream of carbon monoxide (CO) in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and biennially. The permittee shall keep the following records for a period of 5 years following the date of each recorded action as per 40 CFR 63.11225(d) to document conformance with the biennial tune-up: Records identifying each boiler, the date of tune-up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.11225(c)(2)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014 (MACT Subpart JJJJJJ). [40 CFR 63.11225(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain a copy of the Initial Notification and all supporting documentation for a period of 5 years. [40 CFR 63.11225(c)] and [40 CFR 63.11225(d)]	Submit notification: Once initially by January 20, 2014 or within 120 days after startup of a new source to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJ DEP, per 40 CFR 63.13. The permittee may use instructions and the forms provided on the EPA website http://www.epa.gov/ttn/atw/boiler/boilerpg.html [40 CFR 63.11225]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information: (1) Company name and address. (2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken (MACT Subpart JJJJJJ). [40 CFR 63.11225(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJJ due to a switch to 100 percent natural gas. The notice must be provided within 30 days of the change (MACT Subpart JJJJJJ). [40 CFR 63.11225(g)]	None.	None.	Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify: (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice. (2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS4 Woodrow Wilson Hall Boiler #2 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.76 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Natural Gas Usage <= 25.25 MMft^3/yr. Annual fuel use limit for natural gas per any consecutive 12 month period from Operating Permit Modification Application BOP070001 based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 2.94 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [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	NOx (Total) <= 0.288 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.242 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum emission rates of VOC, SO2, TSP, and PM-10 from Operating Permit Modification Application BOP070001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS5 Woodrow Wilson Hall Boiler #3 running on #2 Fuel Oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.96 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight) for Zone 4. Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [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	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight) for Zone 4. 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. [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	Maximum Gross Heat Input <= 3.269 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	NOx (Total) <= 0.467 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.117 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [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
8	SO2 <= 0.663 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum emission rates of VOC, TSP, and PM-10 from Operating Permit Modification Application BOP070001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. (MACT Subpart A) [40 CFR 63.4(b)]	None.	None.	None.
11	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. (MACT Subpart A) [40 CFR 63.4(c)]	None.	None.	None.
12	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. (MACT Subpart A) [40 CFR 63.8(b)(1)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The owner or operator of an affected source shall notify the Administrator that the source becomes subject to a relevant standard. The notification shall include the information as specified in 40 CFR 63.9(b)(2). (MACT Subpart A) [40 CFR 63.9(b)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 120 calendar days after the source becomes subject to the relevant standard, if initial startup of the affected source is before the effective date of the standard. [40 CFR 63.9(b)(2)]
14	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. (MACT Subpart A) [40 CFR 63.9(h)(3)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. In addition, per 40 CFR 63.9(a)(4)(ii), the owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. (MACT Subpart A) [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]
16	The permittee at all times must operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions (MACT Subpart JJJJJJ). [40 CFR 63.11205(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. The permittee shall maintain all records in accordance with 40 CFR 63.11225(d). [40 CFR 63.11225(c)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The permittee shall conduct an initial tune-up no later than March 21, 2014 and subsequent biennial tune-ups no later than 25 months after the previous tune-up. The tune-ups shall be conducted, as required in Table 2 to 40 CFR Part 63, Subpart JJJJJJ, and in accordance with 40 CFR 63.11223(b) as follows: (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the burner inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (the inspection may be delayed until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). (4) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. As per 40 CFR 63.11223(b)(7), if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup (MACT Subpart JJJJJJ). [40 CFR 63.11214(b)]	Monitored by periodic emission monitoring once initially and biennially. Measure the concentrations in the effluent stream of carbon monoxide (CO) in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and biennially. The permittee shall keep the following records for a period of 5 years following the date of each recorded action as per 40 CFR 63.11225(d) to document conformance with the biennial tune-up: Records identifying each boiler, the date of tune-up, the procedures followed for tune-ups and the manufacturer's specifications to which the boiler was tuned. Per 40 CFR 63.11223(b)(6), the permittee must maintain a report containing the following information on site: (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR 63.11225(c)(2)]	Submit notification: Once initially. Submit a Notification of Compliance status by July 19, 2014 electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). The Notification of Compliance Status must include the certification(s) of compliance for the following statement: "This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler" and must be signed by a responsible official. If the reporting form specific to MACT JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA Administrator Region 2 at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The permittee must submit the Initial Notification of Applicability no later than January 20, 2014 (MACT Subpart JJJJJJ). [40 CFR 63.11225(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain a copy of the Initial Notification and all supporting documentation for a period of 5 years. [40 CFR 63.11225(c)] and [40 CFR 63.11225(d)]	Submit notification: Once initially by January 20, 2014 or within 120 days after startup of a new source to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJ DEP, per 40 CFR 63.13. The permittee may use instructions and the forms provided on the EPA website http://www.epa.gov/ttn/atw/boiler/boilerpg.html [40 CFR 63.11225]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Prepare a biennial or 5-year, as applicable, compliance certification report by March 1 of the applicable year and submit to the delegated authority upon request, a compliance certification report for the previous calendar years containing the following information: (1) Company name and address. (2) Statement by responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR Part 63, Subpart JJJJJJ. The notification must include the following certification(s) of compliance and signed by a responsible official: (i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken (MACT Subpart JJJJJJ). [40 CFR 63.11225(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall keep the records prescribed at 40 CFR 63.11225(b)(1) through (b)(2). [40 CFR 63.11225(b)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit that may result in the applicability of a different subcategory or switch out of 40 CFR Part 63, Subpart JJJJJJ due to a switch to 100 percent natural gas. The notice must be provided within 30 days of the change (MACT Subpart JJJJJJ). [40 CFR 63.11225(g)]	None.	None.	Submit notification: Upon occurrence of event. Submit a written notification to the Administrator, EPA Region 2. The notification must identify: (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice. (2) The date upon which the fuel switch, physical change, or permit limit occurred. [40 CFR 63.11225(g)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2 Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)**
Operating Scenario: **OS6 Woodrow Wilson hall Boiler #3 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.96 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Natural Gas Usage <= 28.08 MMft^3/yr. Annual fuel use limit for natural gas per any consecutive 12 month period from Operating Permit Modification Application BOP070001 based on 8,760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 3.269 MMBTU/hr (HHV). Maximum heat input from Operating Permit Modification Application BOP070001. [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	NOx (Total) <= 0.32 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.269 lb/hr. Maximum emission rate from Operating Permit Modification Application BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum emission rates of VOC, SO2, TSP, and PM-10 from Operating Permit Modification Application BOP070001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 Boylan Gym Boilers (2.49 MMBtu/hr, 8.31 MMBtu/hr, 8.31 MMBtu/hr burning NG venting to one stack PT3**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Boiler fuel limited to natural gas from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Natural Gas Usage <= 20 MMft^3 per any 12 consecutive months (combined amount for the three boilers), from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of natural gas usage each month during operation in a logbook or readily accessible computer memory. Consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. A month is defined as one calendar month.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 0.055 tons/yr. Annual emission limit (total for 3 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 1 tons/yr. Annual emission limit (total for 3 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.625 tons/yr. Annual emission limit (total for 3 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.076 tons/yr. Annual emission limit (total for 3 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.076 tons/yr. Annual emission limit (total for 3 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 Boylan Gym Boilers (2.49 MMBtu/hr, 8.31 MMBtu/hr, 8.31 MMBtu/hr burning NG venting to one stack PT3**
Operating Scenario: **OS1 Boylan Gym Boiler #1 burning Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.49 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 2.49 MMBTU/hr (HHV). Maximum heat input from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.24 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.21 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, SO2, TSP, and PM-10 from BOP140001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 Boylan Gym Boilers (2.49 MMBtu/hr, 8.31 MMBtu/hr, 8.31 MMBtu/hr burning NG venting to one stack PT3**
Operating Scenario: **OS2 Boylan Gym Boiler #2 burning Natural Gas, OS3 Boylan Gym Boiler #3 burning Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 4.99 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.

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: Lb/MMBTU = ppmvd * MW * F dry factor * O2 correction factor/387,000,000, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 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)]

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	Maximum Gross Heat Input <= 8.31 MMBTU/hr (HHV). Maximum heat input from BOP140001. [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.
5	NOx (Total) <= 0.81 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.68 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.06 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.06 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum emission rates of VOC, SO2 from BOP140001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 Elmwood Hall Boilers (Three 4.2 MMBtu/hr boilers venting to one stack PT4)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 2.52 lb/hr (per boiler). 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 24.706 MMft^3 for any consecutive 12 month period (amount combined for the three boilers). Annual fuel use limit for natural gas from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
5	Maximum Gross Heat Input <= 4.2 MMBTU/hr (HHV) (per boiler). Maximum heat input from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel burner rated capacity (per boiler).[N.J.A.C. 7:27-22.16(o)].	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
6	VOC (Total) <= 0.068 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.24 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 1.04 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.007 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.094 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.094 tons/yr. Annual emission limit (total for 3 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 Elmwood Hall Boilers (Three 4.2 MMBtu/hr boilers venting to one stack PT4)**

Operating Scenario: **OS1 Boiler #1 running on Natural Gas, OS2 Boiler #2 running on Natural Gas, OS3 Boiler #3 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.412 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	CO <= 0.346 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum emission rates of VOC, TSP, PM-10, and SO2 from preconstruction permit are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U22 Howard Hall Boilers (Fourteen 0.38 MMBtu/hr natural gas boilers venting to one stack PT22)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 3.19 lb/hr (total for 14 boilers). 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 15.441 MMft^3 per any consecutive 12 month period (amount combined for the 14 boilers). Annual fuel use limit for natural gas from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
5	Maximum Gross Heat Input <= 0.38 MMBTU/hr (HHV) (per boiler). Maximum heat input from preconstruction permit. [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.
6	VOC (Total) <= 0.042 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 0.772 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.648 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.005 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.059 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.059 tons/yr. Annual emission limit (total for 14 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Maximum emission rates of VOC, TSP, PM-10, NOx, CO, and SO2 from preconstruction permit are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U26 Oakwood Hall Boilers (Four 0.3 MMBtu/hr boilers venting to one stack)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 1.2 lb/hr (total for 4 boilers). 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 5.882 MMft^3 per any consecutive 12 month period (amount combined for the four boilers). Annual fuel use limit for natural gas from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
5	Maximum Gross Heat Input <= 0.3 MMBTU/hr (HHV) (per boiler). Maximum heat input from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	VOC (Total) <= 0.016 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 0.294 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.247 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.0018 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.022 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.022 tons/yr. Annual emission limit (total for 4 boilers) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Maximum emission rates of VOC, TSP, PM-10, NOx, CO, and SO2 from preconstruction permit are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U27 Guggenheim Library Boilers #1 & #2 (Two 2.34 MMBtu/hr boilers venting to one stack PT 27)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Natural Gas Usage <= 40.2 MMft^3/yr per consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(a)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(a)].	None.
4	VOC (Total) <= 0.111 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 2.01 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 1.69 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	SO2 <= 0.012 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.153 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.153 tons/yr. Annual emission limit based on maximum annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U27 Guggenheim Library Boilers #1 & #2 (Two 2.34 MMBtu/hr boilers venting to one stack PT 27)**

Operating Scenario: **OS1 Guggenheim Library Boiler #1 running on Natural Gas, OS2 Guggenhaim Library Boiler #2 running on Natural Gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.4 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 2.34 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.229 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.193 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, SO2, TSP and PM10 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U30 MAC 300 kW Emergency Generator burning Diesel Fuel, 2009 Model Year, displacement < 10 liters/cylinder**
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 <= 1.87 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to diesel fuel from BOP090002. [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	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

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 <= 3.11 MMBTU/hr (HHV) from BOP090002. [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) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 0.15 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.13 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 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 II as required by 40 CFR 60. [40 CFR 60.4(a)]
17	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the NJDEP Regional Enforcement Office. (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)]
18	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.
19	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	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.
21	NMHC + NOx <= 4.0 grams/kW-hr. 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 3,000 HP (<= 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. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.
22	CO <= 3.5 grams/kW-hr. The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.
23	PM <= 0.20 grams/kW-hr. The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206].	None.
25	Beginning October 1, 2010, the owner and operator of this engine may only use diesel fuel that meets the requirements of 40 CFR 80.510(b) in this engine: (1) 15 ppm maximum sulfur content; (2) Cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or (ii) A maximum aromatic content of 35 volume percent. (NSPS Subpart IIII) [40 CFR 60.4207(b)]	Other: Review of invoices/bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading per delivery showing: (1) Fuel oil sulfur content, and; (2) Minimum Cetane index or maximum aromatic content. [N.J.A.C. 7:27-22.16(o)]	None.
26	The owner or operator must operate and maintain the stationary compression ignition (CI) internal combustion engine (ICE) according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners or operators may only change those settings that are permitted by the manufacturer. You must also meet the requirments of 40 CFR parts 89, 94, and/or 1068, as they apply to you.(NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: Maintain readily accessible records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.[40 CFR 60.4211(a)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	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 specifications. [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.
28	Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting the standards under 40 CFR 60.4205 but not 40 CFR 60.4204, any operation other than emergency operation, and maintenance and testing as permitted in 40 CFR Subpart IIII, is prohibited (NSPS Subpart IIII). [40 CFR 60.4211(e)]	Monitored by hour/time monitor continuously. The owner or operator shall install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Other: The owner or operator shall maintain on site and record in a logbook or computer data system each time the emergency generator is specifically operated for testing or maintenance, the following information: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator.[40 CFR 60.4214(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U30 MAC 300 kW Emergency Generator burning Diesel Fuel, 2009 Model Year, displacement < 10 liters/cylinder**
Operating Scenario: **OS1 MAC Bldg. Emergency Generator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.17 lb/hr based on manufacturer emission factor of 0.16 g/hp-hr for HC, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 2.9 lb/hr based on manufacturer emission factor of 2.75 g/hp-hr for NOx, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 2.59 lb/hr based on manufacturer emission factor of 2.45 g/hp-hr for CO, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate of SO2 from BOP130001 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 <= 0.12 lb/hr based on manufacturer emission factor of 0.118 g/hp-hr for PM, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.12 lb/hr based on manufacturer emission factor of 0.118 g/hp-hr for PM, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U31 Dining Hall 600 kW Emergency Generator Burning Diesel Fuel, 2008 Model Year, displacement < 10 liters/cylinder**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 3.8 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 <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Maximum Gross Heat Input <= 6.33 MMBTU/hr (HHV) from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	Other: Engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input.[N.J.A.C. 7:27-22.16(o)].	None.
7	Maximum Rated Power Output: 600 KW. Model year 2008 with 1.83 Liters per cylinder engine displacement, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by engine manufacturer data.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Rated Power Output, Model Year and Engine Displacement.[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Generator fuel limited to Diesel fuel, from operating permit significant modification application BOP090002. [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
9	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting the standards under 40 CFR 60.4205 but not 40 CFR 60.4204, any operation other than emergency operation, and maintenance and testing as permitted in 40 CFR Subpart IIII, is prohibited (NSPS Subpart IIII). [40 CFR 60.4211(e)]	Monitored by hour/time monitor continuously. The owner or operator shall install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Other: The owner or operator shall maintain on site and record in a logbook or computer data system each time the emergency generator is specifically operated for testing or maintenance, the following information: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator.[40 CFR 60.4214(b)].	None.
13	VOC (Total) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	NOx (Total) <= 0.49 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	CO <= 0.07 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	PM-10 (Total) <= 0.01 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 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 II as required by 40 CFR 60. [40 CFR 60.4(a)]
19	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the NJDEP Regional Enforcement Office. (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	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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
22	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
23	NMHC + NOx <= 6.4 grams/kW-hr. 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 3,000 HP (<= 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. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.
24	CO <= 3.5 grams/kW-hr The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	PM <= 0.20 grams/kW-hr. The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power. [40 CFR 60.4205(b)]	Other: Monitored by engine manufacturer data.[40 CFR 60.4211(b)(3)].	Other: The owner or operator shall keep records of engine manufacturer data indicating compliance with the emission standard.[40 CFR 60.4211(b)(3)].	None.
26	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206].	None.
27	Beginning October 1, 2010, the owner and operator of this engine may only use diesel fuel that meets the requirements of 40 CFR 80.510(b) in this engine: (1) 15 ppm maximum sulfur content; (2) Cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or (ii) A maximum aromatic content of 35 volume percent. (NSPS Subpart IIII) [40 CFR 60.4207(b)]	Other: Review of invoices/bills of lading per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading per delivery showing: (1) Fuel oil sulfur content, and; (2) Minimum Cetane index or maximum aromatic content. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	The owner or operator must operate and maintain the stationary compression ignition (CI) internal combustion engine (ICE) according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners or operators may only change those settings that are permitted by the manufacturer. You must also meet the requirments of 40 CFR parts 89, 94, and/or 1068, as they apply to you.(NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: Maintain readily accessible records of the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.[40 CFR 60.4211(a)].	None.
29	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4204(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 specifications. [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation for the life of the equipment from the manufacturer that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. [40 CFR 60.4211(c)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U31 Dining Hall 600 kW Emergency Generator Burning Diesel Fuel, 2008 Model Year, displacement < 10 liters/cylinder**
Operating Scenario: **OS1 Dining Hall Emergency Generator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.16 lb/hr based on manufacturer emission factor of 0.075 g/hp-hr for HC, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 9.86 lb/hr based on manufacturer emission factor of 4.7 g/hp-hr for NOx, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.41 lb/hr based on manufacturer emission factor of 0.67 g/hp-hr for CO, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate of SO2 from BOP130001 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 <= 0.15 lb/hr based on manufacturer emission factor of 0.070 g/hp-hr for PM, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.15 lb/hr based on manufacturer emission factor of 0.070 g/hp-hr for PM, from operating permit significant modification application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U32 Mullaney Hall Boiler #1, Boiler #2, Boiler #3, 1.53 MMBtu/hr each, Burning Natural Gas**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.92 lb/hr per boiler. 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	Boilers fuel limited to Natural Gas from Operating Permit Modification Application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Natural Gas Usage <= 39.4 MMft^3/yr (amount combined for the three boilers). Maximum annual fuel use limit combined for the 3 boilers, each operating 8,760 hours per year, from Operating Permit Modification Application BOP090002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum Gross Heat Input <= 1.53 MMBTU/hr (HHV) per boiler. Maximum heat input from Operating Permit Modification Application BOP090002. [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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U32 Mullaney Hall Boiler #1, Boiler #2, Boiler #3, 1.53 MMBtu/hr each, Burning Natural Gas**
Operating Scenario: **OS1 Mullaney Hall Boiler # 1, OS2 Mullaney Hall Boiler # 2, OS3 Mullaney Hall Boiler # 3**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum hourly emission rates of VOC, NOx, CO, TSP, PM-10, and SO2 from Operating Permit Modification Application BOP090002 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U33 Hesse Hall Hot Water Heaters (1.06 MMBtu/hr each burning NG venting to one stack PT33)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Boiler fuel limited to natural gas from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Natural Gas Usage <= 18.2 MMft^3 per calendar year (combined amount for the two boilers), from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 0.91 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.765 tons/yr. Annual emission limit (total for 2 boilers) from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U33 Hesse Hall Hot Water Heaters (1.06 MMBtu/hr each burning NG venting to one stack PT33)**
Operating Scenario: **OS1 Hesse Hall Hot Water Heater #1 burning NG, OS2 Hesse Hall Hot Water Heater #2 burning NG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.64 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 1.06 MMBTU/hr (HHV). Maximum heat input from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	NOx (Total) <= 0.104 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.087 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rates of VOC, SO2, TSP, and PM-10 from BOP140001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U50 Facilities Management 2,000-gallon Gasoline AST**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 63 Subpart A 40 CFR Part 63 Subpart CCCCCC [40 CFR Federal Rules Summary]	None.	None.	None.
2	The permittee shall maintain storage tank records of each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)]	Other: Storage tank contents.[N.J.A.C. 7:27-22.16(o)].	Other: The permittee shall maintain tank records specifying each VOC stored and the vapor pressure of each VOC at standard conditions. Storage tank records for each VOC shall consist of fuel delivery receipts.[N.J.A.C. 7:27-22.16(o)].	None.
3	Tank content limited to gasoline. [N.J.A.C. 7:27-22.16(a)]	Other: Tank contents.[N.J.A.C. 7:27-22.16(a)].	Other: Keep records of invoices/bills of lading showing materials delivered. Per delivery.[N.J.A.C. 7:27-22.16(a)].	None.
4	No person shall cause, suffer, allow, or permit a transfer of gasoline, to or from a delivery vessel, if the transfer is subject to the provisions of 16.3(d), (l), or (m), and if the delivery vessel being loaded is under a pressure in excess of 18 inches of water (34 millimeters of mercury) gauge or the delivery vessel being unloaded is under vacuum in excess of six inches of water (11 millimeters of mercury) gauge. [N.J.A.C. 7:27-16.3(k)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	No person shall cause, suffer, allow, or permit any transfer of gasoline, subject to the provisions of 16.3(d), (e), (m), or (n), if: (1) The delivery vessel being loaded or unloaded, or the vapor control system or other equipment serving the transfer operation, has: i. A vapor leak which results in a concentration of applicable VOC greater than or equal to 100% of the lower explosive limit of propane, when measured at a distance of 1.0 inch (2.54 centimeters) or less from the location of the leak; or ii. A liquid leak; (2) Any component of the delivery vessel designed for preventing the release of gasoline vapors is not installed and operating as designed; or (3) Commencing or continuing the transfer would result in a liquid gasoline spill. [N.J.A.C. 7:27-16.3(o)]	None.	None.	None.
6	VOC (Total) <= 0.163 tons/yr Emissions based on 8760 hrs/yr and the maximum size of the tank, and AP42 emission factors 5th edition volume I section 7.1. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) <= 0.037 lb/hr Emissions based on the maximum size of the tank, and AP42 emission factors 5th edition volume I section 7.1. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially . [N.J.A.C. 7:27-22.16(0)]	None.
8	Above ground fuel storage tank(s) exposed to the sun's rays must be painted white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less. [N.J.A.C. 7:27-16.2(b)1i]	Monitored by visual determination twice a year, based on an instantaneous determination. The Permittee shall visually inspect the exterior condition of the tank(s) every 6 months. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system twice a year. The Permittee shall record in either a log book or in readily accessible computer files, exterior paint condition of each tank every 6 months. [N.J.A.C. 7:27-22.16(o)]	Repair equipment: Upon occurrence of event. The permittee shall paint the exterior of the tank white if the visual inspection indicates that 30% or greater of the exterior conditions needs to be repainted. [N.J.A.C. 7:27-16.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The transfer of gasoline into a receiving vessel shall be made through a submerged fill pipe. If the receiving vessel is a stationary storage tank (either above ground or underground), the submerged fill pipe shall be permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1i]	None.	None.	None.
10	The transfer of gasoline from any delivery vessel into any stationary storage tank shall only occur if the storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]	None.	None.	None.
11	The tank shall be equipped with a Phase I vapor recovery system that reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98% of the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline. [N.J.A.C. 7:27-16.3(d)1]	None.	None.	None.
12	The tank shall be equipped with a pressure/vacuum relief valve on each atmospheric vent. [N.J.A.C. 7:27-16.3(d)2]	None.	None.	None.
13	The tank shall be equipped with a CARB-certified Phase I Enhanced Vapor Recovery system pressure/vacuum relief vent valve. [N.J.A.C. 7:27-16.3(d)3]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The tank shall be equipped with a CARB-certified Phase I enhanced vapor recovery (EVR) system, including a dual point vapor balance system, the components of which shall have been approved in one or more CARB-certified Phase I EVR System executive orders in effect at the time of installation, but the components need not all be approved in the same executive order. A Phase I vapor recovery system installed before December 23, 2017, shall comply with this paragraph on or before December 23, 2024. However, a Phase I VRS that is using a single point vapor balance system (coaxial) installed before December 23, 2017, is not required to install a dual point vapor balance system or rotatable adapters and does not need to comply with EVR requirements. [N.J.A.C. 7:27-16.3(d)4]	None.	None.	None.
15	During the transfer of gasoline into any gasoline-laden vehicular fuel tank, any person refueling a vehicle shall prevent overfilling and spillage and shall not allow the transfer of gasoline to continue after the nozzle automatic shut-off point. [N.J.A.C. 7:27-16.3(g)1]	None.	None.	None.
16	Each nozzle shall be a CARB-certified enhanced conventional (ECO) nozzle in accordance with CARB certification procedure CP-207, as amended or supplemented. A gasoline dispensing facility installed before December 23, 2017, shall comply with this paragraph as a part of the decommissioning of a Phase II system, and each time a nozzle is replaced thereafter. If no nozzle is CARB-certified at the time of the installation, or nozzle replacement, a conventional nozzle may be installed. [N.J.A.C. 7:27-16.3(g)3]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Each dispenser hose shall be a CARB-certified low permeation hose in accordance with CARB certification procedures CP-201 and CP-207 as amended or supplemented. A gasoline dispensing facility installed before December 23, 2017, shall comply with this paragraph as a part of the decommissioning of a Phase II system, and each time a dispenser hose is replaced thereafter. [N.J.A.C. 7:27-16.3(g)4]	None.	None.	None.
18	The permittee shall perform tests in accordance with Table 3A of N.J.A.C. 7:27-16 to demonstrate that the facility's vapor recovery systems or equipment are performing properly. At least 14 days prior to performing any tests, the permittee shall notify the Department by e-mail to 14dayUSTnotice@dep.nj.gov and include the name, address, and registration number of the facility, name and contact information for the permittee, the name and contact information of the business conducting the testing, and the date on which the testing is scheduled to begin. [N.J.A.C. 7:27-16.3(j)]	Other: Each test required to be performed pursuant to N.J.A.C. 7:27-16.3(j)1 shall be conducted utilizing the applicable CARB test method cited in Table 3A of N.J.A.C. 7:27-16. The test methods cited in Table 3A are available at: https://www.arb.ca.gov/vapor/vapor.htm. A vapor recovery system or equipment shall be deemed to have passed the test if it meets the applicable performance standards and specifications set forth in CARB's Vapor Recovery Certification Procedures and/or Test Procedures, which are incorporated herein by reference. CARB's Vapor Recovery Certification and Testing Procedures may be downloaded from CARB's website at: https://www.arb.ca.gov/vapor/vapor.htm.[N.J. 7:27-16.3(j)].	Other: The permittee shall maintain the following records at the facility and have it accessible to the Department upon request: i. Documentation of the performance of each test required which must include date of the test, the time the test was conducted, the name of the testing company, the test method; and ii. Record of each test results of each test performed. On the day of the test, any vapor recovery system corrective action, repairs, or equipment replacement shall be recorded with the test results. [N.J.A.C. 7:27-16.3(t)2] &[N.J.A.C. 7:27-16.3(j)4].	Repair equipment: Upon occurrence of event. Upon failure of any test the permitee shall: i. Notify the Department in writing within 72 hours of the failure. Such notification shall be submitted to the Department by email at 14dayUSTnotice@dep.nj.gov and include in the email, the name, address, and registration number of the facility, name and contact information for the owner and operator, the name and contact information of the business conducting the testing, the date the testing was conducted, and the results of the testing using the forms in the applicable CARB method. ii Have the system repaired and retested within 14 days of failure of the test. Upon failure of the retest, the permittee shall notify the Department in writing within 72 hours of the failure. Such notification shall be submitted by email at 14dayUSTnotice@dep.nj.gov including in the email the same information requested above. The system shall be repaired and retested in accordance with a compliance plan approved by the Department. [N.J.A.C. 7:27-16.3(j)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Any delivery vessel except railroad tank cars or marine tank vessels with a maximum capacity of 2,000 gallons or greater shall have a certification affixed to the vessel in a prominent location which indicates the identification number of the vessel and the date the vessel last passed the pressure and vacuum tests. [N.J.A.C. 7:27-16.3(k)3]	None.	Other: Keep a record of certification with the delivery vessel at all times and make it available upon request. The record of certification shall include the name and address of the delivery vessel owner; the delivery vessel identification number; and, for each test performed, the test method used, the testing location, date of test, tester's name and signature, and test results.[N.J.A.C. 7:27-16.3(k)4].	None.
20	The permittee shall not transfer gasoline in a delivery vessel having a maximum capacity of 2,000 gallons or greater unless such vessel is vapor-tight at all times while containing any VOC except during periods of emergency conditions, gauging, or venting through a vapor control system approved by the Department. [N.J.A.C. 7:27-16.3(m)]	None.	None.	None.
21	The permittee shall not transfer gasoline if the delivery vessel being loaded or unloaded, any control apparatus or other equipment serving the transfer operation has a leak that results in a concentration of VOC greater than or equal to 100% LEL of propane when measured at a distance of 1.0 inch from the location of the leak. [N.J.A.C. 7:27-16.3(p)1i]	None.	None.	None.
22	The permittee shall not transfer gasoline if the delivery vessel being loaded or unloaded, any control apparatus, or other equipment serving the transfer operation has a liquid leak. [N.J.A.C. 7:27-16.3(p)1ii]	None.	None.	None.
23	The permittee shall not transfer gasoline if any component of the delivery vessel designed for preventing the release of gasoline vapors is not installed and operating as designed. [N.J.A.C. 7:27-16.3(p)2]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The permittee shall not transfer gasoline if the continued transfer would result in a liquid gasoline spill. [N.J.A.C. 7:27-16.3(p)3]	None.	None.	None.
25	The permittee shall maintain a record of the monthly throughput of gasoline. [N.J.A.C. 7:27-16.3(t)1]	None.	None.	None.
26	Total Throughput <= 30,000 gallons of gasoline for any 12 consecutive months period. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Permittee shall monitor monthly gasoline throughput by inspecting fuel flow totalizer on each pump once daily. The Permittee shall sum the monthly throughput and the previous eleven (11) months to obtain the annual throughput. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Permittee shall record the monthly gasoline throughput rates. All records must be maintained on site for a minimum of 5 years and made readily accessible to the Department upon request. [N.J.A.C. 7:27-22.16(o)]	None.
27	Total Throughput < 10,000 gallons in any month. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Monthly throughput shall be calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12. [40 CFR 63.11132] and. [40 CFR 63.11111(e)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. (MACT Subpart A) [40 CFR 63.4(b)]	None.	None.	None.
29	The owner or operator of an affected source before a title V permit has been issued, and each time a notification of compliance status is required, shall submit to the Administrator a notification of compliance status. The notification shall list all the information as specified in 40 CFR 63.9(h)(2)(i) and be signed by responsible official. (MACT Subpart A) [40 CFR 63.9(h)(2)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration. [40 CFR 63.9(h)(2)(ii)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	After a title V permit has been issued, the owner or operator shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under 40 CFR 63. After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under this part, the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard. (MACT Subpart A) [40 CFR 63.9(h)(3)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most recent two years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration to NJDEP. [40 CFR 63.9(h)(3)]
31	The permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (MACT Subpart CCCCCC) [40 CFR 63.11115(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators (MACT Subpart CCCCCC) [40 CFR 63.11116(a)]	None.	None.	None.
33	The permittee shall keep records as specified in 40 CFR 63.11125(d)(1) and 40 CFR 63.11125(d)(2) as specified below. (1) Records of the occurrence and duration of each malfunction of operation (ie., process equipment) or the air pollution control and monitoring equipment. (2) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (MACT Subpart CCCCCC) [40 CFR 63.11125(d)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. You are not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or subpart A of this 40 CFR Part 63, but the permittee must have records available within 24 hours of a request by the Administrator to document gasoline throughput. [40 CFR 63.11116(b)]	None.
34	The permittee shall comply with the General Provisions as shown in Table 3 to Subpart CCCCCC of 40 CFR 63 that apply to Gasoline Dispensing Facilities. (MACT Subpart CCCCCC) [40 CFR 63.11130]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U201 Health Center Boiler (1.223 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.73 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 10 MMft^3 per any consecutive 12 month period. Annual fuel use limit for natural gas from general permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
5	Maximum Gross Heat Input <= 1.223 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
6	VOC (Total) <= 0.03 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 0.5 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.11 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.01 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U401 Facilities Management Boiler (1.379 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.83 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 10 MMft^3 per consecutive 12 month period. Annual fuel use limit for natural gas from general permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
5	Maximum Gross Heat Input <= 1.379 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
6	VOC (Total) <= 0.03 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 0.5 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.11 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.01 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U501 CCIT Boiler #2 (2.1 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 1.26 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 18.035 MMft^3 per calender year. Annual fuel limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.1 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 2.47 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.62 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 5.33 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.25 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.25 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U601 CCIT Boiler #1 (2.1 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 1.26 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 2.1 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 18.035 MMft^3 per calendar year. Annual fuel limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.1 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 2.47 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.62 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 5.33 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.25 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.25 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1201 Beechwood Hall Boiler (1.255 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.75 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.255 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 10.778 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1401 Cedar Hall Boiler (1.255 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.75 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.255 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 10.776 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1501 Spruce Hall Boiler (1.255 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.75 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.255 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 10.778 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1601 Willow Hall Boiler (1.255 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.75 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.255 MMBTU/hr (HHV). Maximum heat input from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-21.16(o)].	None.
5	Natural Gas Usage <= 10.778 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1701 Laurel Hall Boiler (1.255 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.75 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.255 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 10.778 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1801 Guggenheim Theatre Boiler (1.30 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 0.78 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.3 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 11.165 MMft^3 per calendar year. Annual fuel use limit for natural gas, based on 8760 hrs/yr operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	VOC (Total) <= 0.05 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1.23 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.31 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 2.66 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on operation of the boiler at a maximum of 8760 hours per year for the size registered from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U1901 Dining Hall Boiler #1 (4.718 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 2.83 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 4.718 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 20 MMft^3 per any consecutive 12 month period. Annual fuel use limit for natural gas from general permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
6	VOC (Total) <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.21 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.01 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2001 Dining Hall Boiler #2 (4.718 MMBtu/hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 2.83 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	Boilers fuel limited to Natural Gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 4.718 MMBTU/hr (HHV). Maximum heat input from general permit. [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.
5	Natural Gas Usage <= 20 MMft^3 per any consecutive 12 month period. Annual fuel use limit for natural gas from general permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow/Firing Rate Instrument. Continuously.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a permanently bound logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(e)].	None.
6	VOC (Total) <= 0.06 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 1 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 0.21 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO2 <= 0.01 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 0.12 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	PM-10 (Total) <= 0.12 tons/yr. Annual emission limit based on maximum annual fuel use from general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2801 Facility Management Emergency Generator (1.15 MMBtu/hr)**
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 <= 0.69 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
6	Generator fuel limited to Diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Maximum Gross Heat Input <= 1.15 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.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 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]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	VOC (Total) <= 0.02 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) <= 0.254 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO <= 0.055 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	TSP <= 0.018 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-10 (Total) <= 0.018 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U2801 Facility Management Emergency Generator (1.15 MMBtu/hr)**
Operating Scenario: **OS1 Facilities Management Emergency Generator running diesel**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.403 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 5.072 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.093 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.334 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.357 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.357 lb/hr based on BOP130001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4001 MAC Boilers 1,2,3 (8.67 MMBtu/hr each) firing natural gas**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 5.2 lb/hr per boiler. 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	Boilers fuel limited to Natural Gas from Operating Permit Modification Application BOP090001. [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
4	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: Lb/MMBTU = ppmvd * MW * F dry factor * O2 correction factor/387,000,000, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 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)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	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.
6	Natural Gas Usage <= 141 MMft^3 for any 12 consecutive months (amount combined for the three boilers). Annual fuel use limit for natural gas from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of fuel flow/firing rate for the boiler in a logbook or readily accessible electronic database. Monthly. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	None.
7	Maximum Gross Heat Input <= 8.67 MMBTU/hr (HHV) per boiler. Maximum heat input from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records showing maximum heat input rate[N.J.A.C. 7:27-22.16(o)].	None.
8	NOx (Total) <= 2.613 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 5.403 tons/yr. Annual emission limit (total for 3 boilers) from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4001 MAC Boilers 1,2,3 (8.67 MMBtu/hr each) firing natural gas**

Operating Scenario: **OS1 MAC Boiler #1 running natural gas, OS2 MAC Boiler #2 running natural gas, OS3 MAC Boiler #3 running natural gas**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.3 lb/hr per boiler. Maximum emission rate from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.62 lb/hr per boiler. Maximum emission rate from Operating Permit Modification Application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum emission rates of VOC, TSP, PM-10, and SO2 from Operating Permit Modification Application BOP090001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4200 School of Science Boilers 1-3 running on NG (3 MMBtu/hr each)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 5.4 lb/hr , combined for E4201, E4202, and E4203 Boilers. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	NOx (Total) <= 3 tons/yr. Annual emission limit (total for 3 boilers) from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 2.52 tons/yr. Annual emission limit (total for 3 boilers) from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4200 School of Science Boilers 1-3 running on NG (3 MMBtu/hr each)**

Operating Scenario: **OS1 School of Science boiler 1 running on natural gas. Each boiler is 3.0 MMBtu/hr, OS2 School of Science boiler 2 running on natural gas. Each boiler is 3.0 MMBtu/hr, OS3 School of Science boiler 3 running on natural gas. Each boiler is 3.0 MMBtu/hr**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Boilers fuel limited to Natural Gas from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Natural Gas Usage <= 60 MMft^3 for any consecutive 12 month period, combined for E4201, E4202, and E4203 Boilers, from BOP160004. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging of combined natural gas usage for E4201, E4202, E4203 boilers each month during operation in a log book or in readily accessible computer memories. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months.[N.J.A.C. 7:27-22.16(o)].	None.
4	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV) from BOP160004. [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.
5	NOx (Total) <= 0.228 lb/hr. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO <= 0.192 lb/hr. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Maximum emission rates of VOC, TSP, PM-10, and SO2 are below reporting threshold of 0.05 lb/hr from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4401 School of Science temporary boiler running on NG (8.165 MMBtu.hr)**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 4.9 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

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 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: Lb/MMBTU = ppmvd * MW * F dry factor * O2 correction factor/387,000,000, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: (20.9%)/(20.9% - O2 measured), where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 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)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
5	Boiler fuel limited to Natural Gas from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 35 MMft^3 for any 12 consecutive months. Annual fuel use limit for natural gas from BOP160004. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet per consecutive 12-month period shall be calculated by the sum of the cubic feet consumed during any month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
7	Maximum Gross Heat Input <= 8.165 MMBTU/hr (HHV). Maximum heat input from BOP160004. [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.
8	VOC (Total) <= 0.286 tons/yr based on manufacturer supplied emission factor. Annual emission limit from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 2.15 tons/yr based on manufacturer supplied emission factor. Annual emission limit from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 2.68 tons/yr based on manufacturer supplied emission factor. Annual emission limit from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.179 tons/yr based on manufacturer supplied emission factor. Annual emission limit from BOP160004. [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
12	PM-10 (Total) <= 0.179 tons/yr based on manufacturer supplied emission factor. Annual emission limit from BOP160004. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4401 School of Science temporary boiler running on NG (8.165 MMBtu.hr)**
Operating Scenario: **OS1 School of Science temporary boiler running on NG**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.131 lb/hr based on manufacturer supplied emission factor. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.98 lb/hr based on manufacturer supplied emission factor. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.23 lb/hr based on manufacturer supplied emission factor. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.082 lb/hr based on manufacture supplied emission factor. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.082 lb/hr based on manufacturer supplied emission factor. Maximum emission rate from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum emission rate of SO2 is below reporting threshold of 0.05 lb/hr based on manufacturer supplied emission factor from BOP160004. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Monmouth University

Facility ID (AIMS): 21323

Street Address: 400 CEDAR AVE
WEST LONG BRANCH, NJ 07764

Mailing Address: DIRECTOR OF COMPLIANCE
400 CEDAR AVE
WEST LONG BRANCH, NJ 07764

State Plane Coordinates:

X-Coordinate:	630,035
Y-Coordinate:	528,436
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-Program
Source Type:	DEP Program Database

County: Monmouth

Location Description: Cedar Avenue aka Route 71

Industry:

Primary SIC:	8221
Secondary SIC:	
NAICS:	611310

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Monmouth University
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Hackettstown, NJ 07840

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Emission Statements

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Contact Type: General Contact

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New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: NOx RACT Annual Adjust. Report Contact

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Contact Type: On-Site Manager

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Org. Type: Private
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Contact Type: Operator

Organization: Monmouth University
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Org. Type: Private
NJ EIN: 21063458400

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West Long Branch, NJ 07764

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Owner (Current Primary)

Organization: Monmouth University
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NJ EIN: 21063458400

Mailing Address: 400 Cedar Avenue
West Long Branch, NJ 07764

MONMOUTH UNIVERSITY (21323)
BOP220001

Date: 06/13/2023

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1											
Total			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

MONMOUTH UNIVERSITY (21323)
BOP220001

Date: 6/13/2023

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	17 Norwood Avenue - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	17 Norwood Avenue	0.001	0.015	0.013	0.000	0.001	0.001	0.000	0.00000000	0.000
IS2	17 Norwood Avenue - Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	17 Norwood Avenue	0.002	0.043	0.036	0.000	0.003	0.003	0.000	0.00000000	0.000
IS3	60 Pinewood Avenue - Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Dean's Residence	0.005	0.086	0.072	0.001	0.007	0.007	0.000	0.00000000	0.000
IS4	60 Pinewood Avenue - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Dean's Residence	0.001	0.014	0.012	0.000	0.001	0.001	0.000	0.00000000	0.000
IS10	Redwood Boiler #1 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Redwood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS11	Redwood Boiler #2 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Redwood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS12	Redwood Boiler #3 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Redwood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000

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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)
IS13	Maplewood Boiler #1 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Maplewood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS14	Maplewood Boiler #2 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Maplewood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS15	Maplewood Boiler #3 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Maplewood Hall	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS16	Greenhouse Boiler #1 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Greenhouse	0.015	0.279	0.235	0.002	0.021	0.021	0.000	0.00000000	0.000
IS17	Greenhouse Boiler #2 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Greenhouse	0.015	0.279	0.235	0.002	0.021	0.021	0.000	0.00000000	0.000
IS21	Art Workshop - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Art Workshop	0.001	0.014	0.012	0.000	0.001	0.001	0.000	0.00000000	0.000
IS25	Bey Boiler #1- combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Bey Hall	0.011	0.195	0.164	0.001	0.015	0.015	0.000	0.00000000	0.000

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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)
IS26	Bey Boiler #2 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Bey Hall	0.011	0.195	0.164	0.001	0.015	0.015	0.000	0.00000000	0.000
IS27	Bey Boiler #3 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Bey Hall	0.011	0.195	0.164	0.001	0.015	0.015	0.000	0.00000000	0.000
IS28	Bey Boiler #4 - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Bey Hall	0.011	0.195	0.164	0.001	0.015	0.015	0.000	0.00000000	0.000
IS31	Police Boiler - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Police Station	0.009	0.157	0.132	0.001	0.012	0.012	0.000	0.00000000	0.000
IS32	700 Building Boiler - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	700 Building	0.009	0.172	0.144	0.001	0.013	0.013	0.000	0.00000000	0.000
IS34	Garden Apts - Furnaces (14) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Garden Apts	0.017	0.301	0.253	0.002	0.023	0.023	0.000	0.00000000	0.000

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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)
IS38	Great Lawn Apt 2 - Furnaces (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 2	0.008	0.137	0.115	0.001	0.010	0.010	0.000	0.00000000	0.000
IS39	Great Lawn Apt 3 - Furnaces (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 3	0.008	0.137	0.115	0.001	0.010	0.010	0.000	0.00000000	0.000
IS40	Great Lawn Apt 4 - Furnaces (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 4	0.008	0.137	0.115	0.001	0.010	0.010	0.000	0.00000000	0.000
IS41	Great Lawn Apt 1 - Furnaces (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 1	0.008	0.137	0.115	0.001	0.010	0.010	0.000	0.00000000	0.000
IS42	Art 600 North Boiler - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	600 Building	0.015	0.268	0.225	0.002	0.020	0.020	0.000	0.00000000	0.000
IS43	Art 600 Kiln - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	600 Building	0.012	0.225	0.189	0.001	0.017	0.017	0.000	0.00000000	0.000

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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)
IS44	Art 600 - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	600 Building	0.006	0.103	0.087	0.001	0.008	0.008	0.000	0.00000000	0.000
IS47	98 Larchwood Avenue - Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	98 Larchwood Avenue	0.004	0.064	0.054	0.000	0.005	0.005	0.000	0.00000000	0.000
IS48	98 Larchwood Avenue - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	98 Larchwood Avenue	0.001	0.014	0.012	0.000	0.001	0.001	0.000	0.00000000	0.000
IS49	Art Workshop Boiler - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Art Workshop	0.007	0.129	0.108	0.001	0.010	0.010	0.000	0.00000000	0.000
IS51	Art Workshop - Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Art Workshop	0.003	0.062	0.052	0.000	0.005	0.005	0.000	0.00000000	0.000
IS60	Redwood Hall - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Redwood Hall	0.019	0.344	0.289	0.002	0.026	0.026	0.000	0.00000000	0.000

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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)
IS61	School for Children - Furnaces (9) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	School for Children	0.026	0.464	0.390	0.003	0.035	0.035	0.000	0.00000000	0.000
IS62	School for Children - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	School for Children	0.001	0.016	0.014	0.000	0.001	0.001	0.000	0.00000000	0.000
IS63	Student Center - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Student Center	0.009	0.157	0.132	0.001	0.012	0.012	0.000	0.00000000	0.000
IS64	Willow Hall Boiler - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Willow Hall	0.012	0.215	0.180	0.001	0.016	0.016	0.000	0.00000000	0.000
IS65	Willow Hall - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Willow Hall	0.012	0.215	0.180	0.001	0.016	0.016	0.000	0.00000000	0.000
IS68	Elmwood Hall - HWH (2) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Elmwood Hall	0.028	0.515	0.433	0.003	0.039	0.039	0.000	0.00000000	0.000

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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)
IS69	Garden Apts - HWH (14) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Garden Apts	0.011	0.192	0.162	0.001	0.015	0.015	0.000	0.00000000	0.000
IS70	Great Lawn Apt 1 - HWH (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 1	0.004	0.069	0.058	0.000	0.005	0.005	0.000	0.00000000	0.000
IS71	Great Lawn Apt 2 - HWH (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 2	0.004	0.069	0.058	0.000	0.005	0.005	0.000	0.00000000	0.000
IS72	Great Lawn Apt 3 - HWH (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 3	0.004	0.069	0.058	0.000	0.005	0.005	0.000	0.00000000	0.000
IS73	Great Lawn Apt 4 - HWH (4) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	Great Lawn Apt 4	0.004	0.069	0.058	0.000	0.005	0.005	0.000	0.00000000	0.000

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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)
IS74	Health Center - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Health Center	0.009	0.172	0.144	0.001	0.013	0.013	0.000	0.00000000	0.000
IS75	Ice House - Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Ice House	0.002	0.043	0.036	0.000	0.003	0.003	0.000	0.00000000	0.000
IS76	Maplewood Hall - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Maplewood Hall	0.014	0.258	0.216	0.002	0.020	0.020	0.000	0.00000000	0.000
IS78	New Academic Building - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	New Academic Building (NAB)	0.001	0.014	0.012	0.000	0.001	0.001	0.000	0.00000000	0.000
IS79	New Academic Building Boilers (2) - combustion units (each unit < 1 MMBtu/hr max. heat input)	Boiler	New Academic Building	0.040	0.730	0.613	0.004	0.056	0.056	0.000	0.00000000	0.000
IS80	Oakwood Hall - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Oakwood Hall	0.009	0.172	0.144	0.001	0.013	0.013	0.000	0.00000000	0.000

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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)
IS82	500-gallon diesel AST (<=10,000 gallons, vapor pressure < 0.02 psia)	Storage Vessel	Facilities Management		0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS83	Police Station Emergency Generator - combustion unit (< 1 MMBtu/hr max. heat input)	Emergency Generator	Police Station	0.058	0.785	0.337	0.002	0.000	0.000	0.000	0.00000000	0.000
IS84	Cedar Ave. Tunnel Emergency Generator - combustion unit (< 1 MMBtu/hr max. heat input)	Emergency Generator	Cedar Ave. (Rt.71) Pedestrian Tunnel Gen.	0.006	0.190	0.026	0.000	0.000	0.000	0.000	0.00000000	0.000
IS88	Art Workshop Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Art Workshop - 600 building	0.006	0.102	0.043	0.001	0.008	0.008	0.000	0.00000000	0.000
IS89	Gym Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Gym Trainers Workshop	0.006	0.097	0.041	0.001	0.008	0.008	0.000	0.00000000	0.000
IS90	Guggenheim Library - HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Guggenheim Library	0.002	0.031	0.013	0.000	0.003	0.003	0.000	0.00000000	0.000

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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)
IS91	364 Cedar Ave - Furnace (Nat. Gas) - combustion unit < 1MMBtu/hr max. rated heat input	Boiler	364 Cedar Avenue	0.002	0.032	0.014	0.000	0.003	0.003	0.000	0.00000000	0.000
IS92	Woodrow Wilson Hall Emergency Generator (< 1 MMBtu/hr max. heat input)	Emergency Generator	Woodrow Wilson Hall	0.062	0.781	0.168	0.051	0.055	0.055	0.000	0.00000000	0.000
IS94	Edison Science Bldg - HP Boiler (NG) - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Edison Science Building	0.002	0.102	0.043	0.001	0.008	0.008	0.000	0.00000000	0.000
IS95	(2) Dorm 04 Natural Gas Hot Water Heaters (each unit < 1 MMBtu/hr max. heat input)	Boiler	Residence Hall Dorm 04	0.019	0.171	0.288	0.002	0.026	0.026	0.000	0.00000000	0.000
IS96	402 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	402 Cedar Avenue	0.004	0.076	0.064	0.000	0.006	0.006	0.000	0.00000000	0.000
IS97	400 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	400 Cedar Avenue	0.005	0.086	0.072	0.001	0.007	0.007	0.000	0.00000000	0.000

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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)
IS98	400 Cedar Avenue HWH - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	400 Cedar Avenue	0.001	0.017	0.014	0.000	0.001	0.001	0.000	0.00000000	0.000
IS99	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.003	0.049	0.041	0.000	0.004	0.004	0.000	0.00000000	0.000
IS100	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.003	0.049	0.041	0.000	0.004	0.004	0.000	0.00000000	0.000
IS101	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.003	0.049	0.041	0.000	0.004	0.004	0.000	0.00000000	0.000
IS102	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.002	0.030	0.025	0.000	0.002	0.002	0.000	0.00000000	0.000
IS103	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.002	0.040	0.033	0.000	0.003	0.003	0.000	0.00000000	0.000
IS104	10 Norwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.002	0.040	0.033	0.000	0.003	0.003	0.000	0.00000000	0.000

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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)
IS105	10 Norwood Avenue HWH - combustion unit, natural gas fired (< 1 MMBtu/hr max. heat input)	Boiler	Doherty House	0.003	0.052	0.043	0.000	0.004	0.004	0.000	0.00000000	0.000
IS106	10 Norwood Avenue Elevator AST - 160-gal hydraulic oil	Storage Vessel	Doherty House	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS107	23 Beechwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Beechwood Farm	0.002	0.034	0.029	0.000	0.003	0.003	0.000	0.00000000	0.000
IS108	23 1/2 Beechwood Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Beechwood Farm	0.002	0.034	0.029	0.000	0.003	0.003	0.000	0.00000000	0.000
IS109	Beechwood Farm Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	Beechwood Farm	0.003	0.060	0.050	0.000	0.005	0.005	0.000	0.00000000	0.000
IS110	470 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	470 Cedar Avenue	0.002	0.032	0.027	0.000	0.002	0.002	0.000	0.00000000	0.000

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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)
IS111	470 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	470 Cedar Avenue	0.003	0.052	0.043	0.000	0.004	0.004	0.000	0.00000000	0.000
IS112	470 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	470 Cedar Avenue	0.001	0.019	0.016	0.000	0.001	0.001	0.000	0.00000000	0.000
IS113	482 Cedar Avenue Furnace - combustion unit (< 1 MMBtu/hr max. heat input)	Boiler	482 Cedar Avenue	0.003	0.057	0.048	0.000	0.004	0.004	0.000	0.00000000	0.000
IS114	600 South Boiler - combustion unit (< 1 MMBtu/hr max. heat input) (REPLACEMENT UNIT)	Boiler	600 South Building	0.005	0.097	0.081	0.001	0.007	0.007	0.000	0.00000000	0.000
IS115	Laboratory Hoods (each <=50 lb/hr raw material process rate)	Other Equipment	Campus-wide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS116	Doherty House Emergency Generator (35 kW - NG), 2013 model year (< 1 MMBtu/hr max. heat input)	Emergency Generator	Doherty House	0.003	0.091	0.012	0.000	0.000	0.000	0.000	0.00000000	0.000

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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)
IS117	Energy Recovery Rooftop Units 1 & 2 - combustion units, natural gas fired (each unit < 1 MMBtu/hr max. heat input)	Other Equipment	New Residence Hall 2014	0.012	0.215	0.180	0.001	0.016	0.016	0.000	0.00000000	0.000
IS118	500 Cedar Avenue Furnace - combustion unit, natural gas fired < 1MMBtu/hr heat input	Boiler	500 Cedar Avenue	0.002	0.040	0.033	0.000	0.003	0.003	0.000	0.00000000	0.000
IS119	754 Van Court Furnace - combustion unit, natural gas fired (< 1 MMBtu/hr max. heat input)	Boiler	754 Van Court	0.002	0.032	0.027	0.000	0.002	0.002	0.000	0.00000000	0.000
IS120	Rechnitz Hall Furnaces (15) - combustion units, nat. gas (< 1 MMBtu/hr max. heat input)	Boiler	Rechnitz Hall	0.044	0.786	0.656	0.004	0.060	0.060	0.000	0.00000000	0.000
IS121	Woodrow Wilson UST - 10,000 gallon UST (> 10,000 gallons, vapor pressure < 0.02 psia)	Storage Vessel	Woodrow Wilson Hall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS122	Pozycki Hall Boiler, natural gas fired (< 1 MMBtu/hr max. heat input)	Boiler	Pozycki Hall	0.055	1.000	0.840	0.006	0.076	0.076	0.000	0.00000000	

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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)
IS124	IM Data Center Emergency Generator, 0.332 MMBtu/hr, Natural Gas, (< 1 MMBtu/hr max. heat input)	Emergency Generator	IM Data Center	0.002	0.068	0.009	0.000	0.000	0.000	0.000	0.00000000	0.000
IS125	School of Science HWHs (2) (< 1 MMBtu/hr max. heat input)	Boiler	School of Science	0.019	0.343	0.288	0.002	0.026	0.026	0.000	0.00000000	0.000
IS126	Guggenheim Library EG (39 kW) - NG (< 1 MMBtu/hr max. heat input), manufactured after January 1, 2009, subject to NSPS Subpart JJJJ	Emergency Generator	Guggenheim Library	0.007	0.227	0.031	0.000	0.000	0.000	0.000	0.00000000	0.000
IS127	Make-up Air Unit (< 1 MMBtu/hr max. heat input)	Other Equipment	Kitchen	0.010	0.175	0.147	0.001	0.013	0.013	0.000	0.00000000	0.000
Total				0.818	14.251	10.738	0.122	0.989	0.989	0.000	0.00000000	0.000

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Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E2	Health Ctr	Health Center Boiler	Boiler	GEN010002	1/1/1994	No		
E4	Fac. Mgmt.	Facilities Management Boiler	Boiler	GEN010004	1/1/1968	No	8/1/1995	
E5	CCIT Blr2	CCIT Boiler #2	Boiler	GEN010005	1/1/2002	No		
E6	CCIT Blr1	CCIT Boiler #1	Boiler	GEN010006	1/1/2002	No		
E12	Beechwd Blr	Beechwood Hall Boiler	Boiler	GEN020006	1/1/1970	No	6/1/1995	
E14	Cedar Blr	Cedar Hall Boiler	Boiler	GEN020008	1/1/1970	No	6/1/1995	
E15	Spruce Blr	Spruce Hall Boiler	Boiler	GEN020009	1/1/1970	No	6/1/1995	
E16	Willow Blr	Willow Hall Boiler	Boiler	GEN020010	1/1/1970	No	6/1/1995	
E17	Laurel Blr	Laurel Hall Boiler	Boiler	GEN020011	1/1/1970	No	6/1/1995	
E18	Theatre Blr	Guggenheim Theatre Boiler	Boiler	GEN020012	8/1/1995	No		
E19	Dining Blr1	Dining Hall Boiler #1	Boiler	GEN030001	1/1/1989	No		
E20	Dining Blr2	Dining Hall Boiler #2	Boiler	GEN030002	1/1/1989	No		
E50	FacMgmt AST	Facilities Management 2,000-gallon Gasoline AST	Storage Vessel	BOP220001	9/1/2022	No		
E101	Student Ctr	Student Center Boiler #1	Boiler	PCP020001	1/1/1972	No		
E102	Student Ctr	Student Center Boiler #2	Boiler	PCP020001	1/1/1972	No		
E202	Wdrow Wils 2	Woodrow Wilson Hall Boiler #2	Boiler	BOP070001	1/1/1963	No	9/1/1996	
E203	Wdrow Wils 3	Woodrow Wilson Hall Boiler #3	Boiler	BOP070001	8/1/1989	No		
E204	Wdrw Wils 1	Woodrow Wilson Hall Boiler #1	Boiler	BOP070001	1/1/2004	No		

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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	Gym Boiler 1	Memorial Gym Boiler #1	Boiler	PCP020003	1/1/1972	No		
E302	Gym Boiler 2	Memorial Gym Boiler #2	Boiler	PCP020003	1/1/1972	No	3/1/2000	
E303	Gym Boiler 3	Memorial Gym Boiler #3	Boiler	PCP020003	1/1/1972	No	1/1/1993	
E401	Elmwd Blr1	Elmwood Hall Boiler #1	Boiler	PCP020004	1/1/1970	No	6/1/1995	
E402	Elmwd Blr2	Elmwood Hall Boiler #2	Boiler	PCP020004	1/1/1970	No	6/1/1995	
E403	Elmwd Blr3	Elmwood Hall Boiler #3	Boiler	PCP020004	1/1/1970	No	6/1/1995	
E2201	Howard Blr1	Howard Hall Boiler #1	Boiler	PCP020006	1/1/1990	No		
E2202	Howard Blr2	Howard Hall Boiler #2	Boiler	PCP020006	1/1/1990	No		
E2203	Howard Blr3	Howard Hall Boiler #3	Boiler	PCP020006	1/1/1990	No		
E2204	Howard Blr4	Howard Hall Boiler #4	Boiler	PCP020006	1/1/1990	No		
E2205	Howard Blr5	Howard Hall Boiler #5	Boiler	PCP020006	1/1/1990	No		
E2206	Howard Blr6	Howard Hall Boiler #6	Boiler	PCP020006	1/1/1990	No		
E2207	Howard Blr7	Howard Hall Boiler #7	Boiler	PCP020006	1/1/1990	No		
E2208	Howard Blr8	Howard Hall Boiler #8	Boiler	PCP020006	1/1/1990	No		
E2209	Howard Blr9	Howard Hall Boiler #9	Boiler	PCP020006	1/1/1990	No		
E2210	Howard Blr10	Howard Hall Boiler #10	Boiler	PCP020006	1/1/1990	No		
E2211	Howard Blr11	Howard Hall Boiler #11	Boiler	PCP020006	1/1/1990	No		
E2212	Howard Blr12	Howard Hall Boiler #12	Boiler	PCP020006	1/1/1990	No		
E2213	Howard Blr13	Howard Hall Boiler #13	Boiler	PCP020006	1/1/1990	No		
E2214	Howard Blr14	Howard Hall Boiler #14	Boiler	PCP020006	1/1/1990	No		

MONMOUTH UNIVERSITY (21323) Date: 6/13/2023
BOP220001

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	FacMgmt Tank	delete from inventory	Storage Vessel	BOP160004	5/1/1997	No		
E2601	Oakwood Blr1	Oakwood Hall Boiler #1	Boiler	PCP020007	1/1/1996	No		
E2602	Oakwood Blr2	Oakwood Hall Boiler #2	Boiler	PCP020007	1/1/1996	No		
E2603	Oakwood Blr3	Oakwood Hall Boiler #3	Boiler	PCP020007	1/1/1996	No		
E2604	Oakwood Blr4	Oakwood Hall Boiler #4	Boiler	PCP020007	1/1/1996	No		
E2701	Library Blr1	Guggenheim Library Boiler #1	Boiler	BOP050001	6/9/2004	No		
E2702	Library Blr2	Guggenheim Library Boiler #2	Boiler	BOP050001	6/9/2004	No		
E2801	FacMgmnt EG	Facility Management Emergency Generator	Emergency Generator	BOP090001	1/1/1989	No		
E2901	MAC Blr1	MAC Boiler #1	Boiler	BOP090001	1/22/2009	No		
E2902	MAC Blr2	MAC Boiler #2	Boiler	BOP090001	1/22/2009	No		
E2903	MAc Blr3	MAC Boiler #3	Boiler	BOP090001	1/22/2009	No		
E3001	MAC EG	MAC Bldg. Emergency Generator	Emergency Generator	BOP090002	5/15/2009	No		
E3101	DINING EG	Dining Hall Emergency Generator	Emergency Generator	BOP090002	12/2/2008	No		
E3201	MullHal Blr1	Mullaney Hall	Boiler	BOP090002	8/20/2010	No		
E3202	MullHal Blr2	Mullaney Hall	Boiler	BOP090002	8/20/2010	No		
E3203	MullHal Blr3	Mullaney Hall	Boiler	BOP090002	8/20/2010	No		
E3301	HessHalHWH1	Hesse Hall HWH 1	Boiler	BOP140001	8/1/2014	No		
E3302	HessHalHWH2	Hesse Hall HWH 2	Boiler	BOP140001	8/1/2014	No		

MONMOUTH UNIVERSITY (21323) Date: 6/13/2023

BOP220001

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
E4201	SchofSciBlr1	School of Science Boiler 1 - NG	Boiler	BOP160004	8/1/2016	No		
E4202	SchofSciBlr2	School of Science Boiler 2 - NG	Boiler	BOP160004	8/1/2016	No		
E4203	SchofSciBlr3	School of Science Boiler 3 - NG	Boiler	BOP160004	8/1/2016	No		
E4401	SchofSciTemp	School of Science Temporary Boiler - NG	Boiler	BOP160004	3/1/2016	No		

21323 MONMOUTH UNIVERSITY BOP220001 E4 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	25 Mills 12 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.38
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Facilities Management Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E5 (Boiler)
Print Date: 4/26/2023

Make:	Raypak
Manufacturer:	Raypak
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	CCIT Blr #2

21323 MONMOUTH UNIVERSITY BOP220001 E6 (Boiler)
Print Date: 4/26/2023

Make:	Raypak
Manufacturer:	Raypak
Model:	
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	CCIT Blr #1

21323 MONMOUTH UNIVERSITY BOP220001 E2 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	19 Series-9
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.22
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Health Center Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E12 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-200-30
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.26
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Beechwood Hall Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E14 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-200-30
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.26
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Cedar Hall Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E15 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-200-30
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.26
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Spruce Hall Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E16 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-200-30
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.26
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Willow Hall Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E17 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-200-30
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.26
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Laurel Hall Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E18 (Boiler)
Print Date: 4/26/2023

Make:	Weil-McLain
Manufacturer:	Weil-McLain
Model:	LGB-11
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.30
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Guggenheim Theatre Boiler

21323 MONMOUTH UNIVERSITY BOP220001 E19 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	Series 28A-13
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.72
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Dining Hall Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E20 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	Series 28A-13
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.72
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Dining Hall Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E50 (Storage Vessel)
Print Date: 4/26/2023

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	Light Rust
Paint Condition:	Good
Shell Construction:	Welded
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	6.50
Length (ft):	12.00
Width (ft):	3.00
Diameter (ft):	5.30
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	40.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Open Top
Roof Type:	
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel	

21323 MONMOUTH UNIVERSITY BOP220001 E50 (Storage Vessel)
Print Date: 4/26/2023

Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	2000gal AST Fac Mgmt

21323 MONMOUTH UNIVERSITY BOP220001 E101 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-900-200
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.37
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Student Center Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E102 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CB-900-200
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.37
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Student Center Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E202 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	450 Mills 13 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.94
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Woodrow Wilson Hall Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E203 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	450 Mills 13 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	3.27
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Woodrow Wilson Boiler 3

21323 MONMOUTH UNIVERSITY BOP220001 E204 (Boiler)
Print Date: 4/26/2023

Make:	Weil-McLain
Manufacturer:	Weil-McLain
Model:	1288
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	3.64
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	3,000.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Woodrow Wilson Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E301 (Boiler)
Print Date: 4/26/2023

Make:	Highlander
Manufacturer:	Industrial Combustion Inc.
Model:	3245F
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.49
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Memorial Gym Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E302 (Boiler)
Print Date: 4/26/2023

Make:	Highlander
Manufacturer:	Industrial Combustion Inc.
Model:	10785F
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.31
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Memorial Gym Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E303 (Boiler)
Print Date: 4/26/2023

Make:	Highlander
Manufacturer:	Industrial Combustion Inc.
Model:	10785F
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.31
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Memorial Gym Boiler #3

21323 MONMOUTH UNIVERSITY BOP220001 E401 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	450 Mills 16 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.20
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Elmwood Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E402 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	450 Mills 16 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.20
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Elmwood Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E403 (Boiler)
Print Date: 4/26/2023

Make:	HB Smith
Manufacturer:	HB Smith
Model:	450 Mills 16 Section
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.20
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Elmwood Boiler #3

21323 MONMOUTH UNIVERSITY BOP220001 E2201 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E2202 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E2203 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #3

21323 MONMOUTH UNIVERSITY BOP220001 E2204 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #4

21323 MONMOUTH UNIVERSITY BOP220001 E2205 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #5

21323 MONMOUTH UNIVERSITY BOP220001 E2206 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #6

21323 MONMOUTH UNIVERSITY BOP220001 E2207 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #7

21323 MONMOUTH UNIVERSITY BOP220001 E2208 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #8

21323 MONMOUTH UNIVERSITY BOP220001 E2209 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Howard Hall Boiler #9

21323 MONMOUTH UNIVERSITY BOP220001 E2210 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #10

21323 MONMOUTH UNIVERSITY BOP220001 E2211 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #11

21323 MONMOUTH UNIVERSITY BOP220001 E2212 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #12

21323 MONMOUTH UNIVERSITY BOP220001 E2213 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #13

21323 MONMOUTH UNIVERSITY BOP220001 E2214 (Boiler)
Print Date: 4/26/2023

Make:	Galaxy
Manufacturer:	Slant-Fin
Model:	GG-375EC
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.38
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Howard Hall Boiler #14

21323 MONMOUTH UNIVERSITY BOP220001 E2501 (Storage Vessel)
Print Date: 4/26/2023

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	White
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	
Width (ft):	
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	Yes
Does the storage vessel	

21323 MONMOUTH UNIVERSITY BOP220001 E2501 (Storage Vessel)
Print Date: 4/26/2023

Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	2000-gal Fac Mgmt tank

21323 MONMOUTH UNIVERSITY BOP220001 E2601 (Boiler)
Print Date: 4/26/2023

Make:	Hydrotherm
Manufacturer:	Hydrotherm
Model:	MR12000B
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.30
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Oakwood Hall Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E2602 (Boiler)
Print Date: 4/26/2023

Make:	Hydrotherm
Manufacturer:	Hydrotherm
Model:	MR12000B
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.30
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Oakwood Hall Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E2603 (Boiler)
Print Date: 4/26/2023

Make:	Hydrotherm
Manufacturer:	Hydrotherm
Model:	MR12000B
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.30
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Oakwood Hall Boiler #3

21323 MONMOUTH UNIVERSITY BOP220001 E2604 (Boiler)
Print Date: 4/26/2023

Make:	Hydrotherm
Manufacturer:	Hydrotherm
Model:	MR12000B
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	0.30
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Oakwood Hall Boiler #4

21323 MONMOUTH UNIVERSITY BOP220001 E2701 (Boiler)
Print Date: 4/26/2023

Make:	Raypak
Manufacturer:	Raypak
Model:	HI-DELTAH-9 2342
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.34
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments: Guggenheim Library Boiler #1

21323 MONMOUTH UNIVERSITY BOP220001 E2702 (Boiler)
Print Date: 4/26/2023

Make:	Raypak
Manufacturer:	Raypak
Model:	HI-DELTAH-9 2342
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.34
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Guggenheim Library Boiler #2

21323 MONMOUTH UNIVERSITY BOP220001 E2801 (Emergency Generator)
Print Date: 4/26/2023

Make:	Kohler
Manufacturer:	KOhler
Model:	100ROZ271
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.15
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:	

21323 MONMOUTH UNIVERSITY BOP220001 E2901 (Boiler)
Print Date: 4/26/2023

Make:	Bryan Boiler
Manufacturer:	Bryan Boiler
Model:	RW850-W-FDG-LX
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.67
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

Low NOx Burner:	☑	Type: Lox NOx Burner Cone - 30 PPM
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐	Amount (%):

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E2902 (Boiler)
Print Date: 4/26/2023

Make:	Bryan Boiler
Manufacturer:	Bryan Boiler
Model:	RW850-W-FDG-LX
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.67
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

Low NOx Burner:	☑ Type:	Lox NOx Burner Cone - 30 PPM
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐ Amount (%):	

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E2903 (Boiler)
Print Date: 4/26/2023

Make:	Bryan Boiler
Manufacturer:	Bryan Boiler
Model:	RW850-W-FDG-LX
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.67
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

Low NOx Burner:	☑ Type:	Lox NOx Burner Cone - 30 PPM
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐ Amount (%):	

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E3001 (Emergency Generator)
Print Date: 4/26/2023

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	C9
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.22
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:	300 KW. Model year 2009 with 1.47 Liters per cylinder engine displacement, from BOP090002.

21323 MONMOUTH UNIVERSITY BOP220001 E3101 (Emergency Generator)
Print Date: 4/26/2023

Make:	Generac
Manufacturer:	Generac
Model:	SD600K36220D18GPSYC
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	6.56
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:	954 BHP

21323 MONMOUTH UNIVERSITY BOP220001 E3201 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CFC 1500
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.53
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E3202 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CFC 1500
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.53
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E3203 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CFC 1500
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.53
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

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

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

Comments:

21323 MONMOUTH UNIVERSITY BOP220001 E3301 (Boiler)
Print Date: 4/26/2023

Make:	AERCO
Manufacturer:	AERCO
Model:	INN1060SV
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.06
Boiler Type:	
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Hesse Hall Hot Water Heater #1

21323 MONMOUTH UNIVERSITY BOP220001 E3302 (Boiler)
Print Date: 4/26/2023

Make:	AERCO
Manufacturer:	AERCO
Model:	INN1060SV
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.06
Boiler Type:	
Utility Type:	Non-Utility
Output Type:	
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Hesse Hall Hot Water Heater #2

21323 MONMOUTH UNIVERSITY BOP220001 E4201 (Boiler)
Print Date: 4/26/2023

Make:	Crest Condensing Boiler
Manufacturer:	Lochinvar
Model:	FBN3000
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	3.00
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Direct

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	School of Science Boiler 1 - NG

21323 MONMOUTH UNIVERSITY BOP220001 E4202 (Boiler)
Print Date: 4/26/2023

Make:	Crest Condensing Boiler
Manufacturer:	Lochinvar
Model:	FBN3000
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	3.00
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	School of Science Boiler 2 - NG

21323 MONMOUTH UNIVERSITY BOP220001 E4203 (Boiler)
Print Date: 4/26/2023

Make:	Crest Condensing Boiler
Manufacturer:	Lochinvar
Model:	FBN3000
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	3.00
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	School of Science Boiler 3 - NG

21323 MONMOUTH UNIVERSITY BOP220001 E4401 (Boiler)
Print Date: 4/26/2023

Make:	Cleaver Brooks
Manufacturer:	Cleaver Brooks
Model:	CB
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	8.17
Boiler Type:	Fire Tube
Utility Type:	Non-Utility
Output Type:	Water Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	School of Science Temporary Boiler approx 5 months - NG

MONMOUTH UNIVERSITY (21323)
BOP220001

Date: 6/13/2023

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	Student Ctr	Student Center Boilers	Round	26	46	650	350.0	325.0	375.0	9,360.0	9,300.0	9,400.0	Up	
PT2	Wilson Hall	Woodrow Wilson Hall Boilers	Round	24	55	550	500.0	475.0	525.0	2,953.0	2,900.0	3,000.0	Up	
PT3	Memorial Gym	Memorial Gym Boilers	Round	31	50	500	500.0	475.0	525.0	4,347.0	4,300.0	4,400.0	Up	
PT4	Elmwood Hall	Elmwood Hall Boilers	Round	34	38	360	400.0	375.0	425.0	5,637.0	5,600.0	5,700.0	Up	
PT22	Howard Hall	Howard Hall Boilers 1-14	Round	23	60	564	300.0	275.0	325.0	1,596.0	1,575.0	1,625.0	Up	
PT26	Oakwood Hall	Oakwood Hall Boilers	Round	18	40	80	350.0	325.0	375.0	637.0	600.0	650.0	Up	
PT27	Library	Guggenheim Library Boilers	Round	20	42	100							Up	
PT30	MAC EG	MAC Emergency Generator Stack	Round	33	10	695	931.1	791.4	1,071.0	2,461.0	2,092.0	2,831.0	Up	
PT31	DINING EG	Dining Hall Emergency Generator Stack	Round	39	10	75	1,300.0	1,105.0	1,495.0	6,419.0	5,456.0	7,382.0	Up	
PT32	MullHal	Mullaney Hall Boiler 1-3 Stack	Round	89	43	160	139.0	108.0	170.0	422.0	392.0	464.0	Up	
PT33	HessHal	Hesse Hall	Round	8	43	248	90.0	70.0	150.0	100.0	10.0	240.0	Up	
PT50	FacMgmt AST	Facilities Managment 2000-gal gasoline AST	Round	6	7	140	60.0	55.0	65.0	25.0	20.0	30.0	Up	
PT201	Health Ctr	Health Center Boiler	Round	12	20	90	400.0	375.0	425.0	551.0	525.0	575.0	Up	
PT401	Fac Mgmt	Facilities Management Boiler	Round	18	19	125	400.0	375.0	425.0	502.0	475.0	525.0	Up	
PT501	CCIT	CCIT Boilers 1 & 2	Round	22	37	354	330.0	325.0	350.0	710.0	700.0	750.0	Up	
PT1001	Dining Hall	Dining Hall Boiler #1	Round	24	35	200	350.0	325.0	375.0	900.0	875.0	925.0	Up	
PT1101	Dining Hall	Dining Hall Boiler #2	Round	24	35	200	350.0	325.0	375.0	900.0	875.0	925.0	Up	
PT1201	Beechwood	Beechwood Hall Boiler	Round	10	30	186	300.0	275.0	325.0	500.0	475.0	525.0	Up	

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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.		
PT1401	Cedar	Cedar Hall Boiler	Round	10	30	90	300.0	275.0	325.0	500.0	475.0	525.0	Up	
PT1501	Spruce	Spruce Hall Boiler	Round	10	30	180	300.0	275.0	325.0	500.0	475.0	525.0	Up	
PT1601	Willow	Willow Hall Boiler	Round	10	30	267	300.0	275.0	325.0	500.0	475.0	525.0	Up	
PT1701	Laurel	Laurel Hall Boiler	Round	10	29	81	300.0	275.0	325.0	500.0	475.0	525.0	Up	
PT1801	Theatre	Guggenheim Theatre Boiler	Round	19	26	15	400.0	375.0	425.0	448.0	425.0	475.0	Up	
PT2001	MAC Bldg	MAC Boilers 1-3	Round	20	60	220	330.0	210.0	450.0	3,368.0	1,684.0	5,052.0	Up	
PT2801	FacMgmnt EG	Facilities Management Generator	Round	12	50	200	250.0	225.0	275.0	920.0	900.0	950.0	Up	
PT4201	SchofSciBlrs	School of Science Boilers 1-3	Round	20	39	650	85.0	85.0	85.0	648.0	648.0	648.0	Up	
PT4401	SchofSciTemp	School of Science Temporary Boiler	Round	8	15	675	340.0	318.0	350.0	6,000.0	2,043.0	8,025.0	Up	

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

U 1 Student Ctr Student Center Boilers (Two 8.37 MMBtu/hr boilers venting to one stack PT1)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Boiler #1 running on Natural Gas	Normal - Steady State	E101		PT1	1-03-006-03	0.0	8,760.0		9,300.0	9,400.0	325.0	375.0
OS2	Boiler2 -NG	Boiler #2 running on Natural Gas	Normal - Steady State	E102		PT1	1-03-006-03	0.0	8,760.0		9,300.0	9,400.0	325.0	375.0

U 2 Wilson Hall Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1-Oil	Woodrow Wilson Hall Boiler #1 running on #2 Fuel Oil	Normal - Steady State	E204		PT2		0.0	8,760.0					
OS2	Boiler1-NG	Woodrow Wilson hall Boiler #1 running on Natural Gas	Normal - Steady State	E204		PT2		0.0	8,760.0					
OS3	Boiler2-Oil	Woodrow Wilson Hall Boiler #2 running on #2 Fuel Oil	Normal - Steady State	E202		PT2		0.0	8,760.0					
OS4	Boiler2-NG	Woodrow Wilson Hall Boiler #2 running on Natural Gas	Normal - Steady State	E202		PT2		0.0	8,760.0					
OS5	Boiler3-Oil	Woodrow Wilson Hall Boiler #3 running on #2 Fuel Oil	Normal - Steady State	E203		PT2		0.0	8,760.0					

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U 2 Wilson Hall Woodrow Wilson Hall Boilers (3.64 MMBtu/hr, 2.94 MMBtu/hr, 3.27 MMBtu/hr venting to one stack PT2)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS6	Boiler3-NG	Woodrow Wilson hall Boiler #3 running on Natural Gas	Normal - Steady State	E203		PT2		0.0	8,760.0					

U 3 Boylan Gym Boylan Gym Boilers (2.49 MMBtu/hr, 8.31 MMBtu/hr, 8.31 MMBtu/hr burning NG venting to one stack PT3

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Boylan Gym Boiler #1 burning Natural Gas	Normal - Steady State	E301		PT3	1-03-006-03	0.0	8,760.0		4,300.0	4,400.0	475.0	525.0
OS2	Boiler2 -NG	Boylan Gym Boiler #2 burning Natural Gas	Normal - Steady State	E302		PT3	1-03-006-03	0.0	8,760.0		4,300.0	4,400.0	475.0	525.0
OS3	Boiler3 -NG	Boylan Gym Boiler #3 burning Natural Gas	Normal - Steady State	E303		PT3	1-03-006-03	0.0	8,760.0		4,300.0	4,400.0	475.0	525.0

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U 4 Elmwood Hall Elmwood Hall Boilers (Three 4.2 MMBtu/hr boilers venting to one stack PT4)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Boiler #1 running on Natural Gas	Normal - Steady State	E401		PT4	1-03-006-03	0.0	8,760.0		5,600.0	5,700.0	375.0	425.0
OS2	Boiler2 -NG	Boiler #2 running on Natural Gas	Normal - Steady State	E402		PT4	1-03-006-03	0.0	8,760.0		5,600.0	5,700.0	375.0	425.0
OS3	Boiler3 -NG	Boiler #3 running on Natural Gas	Normal - Steady State	E403		PT4	1-03-006-03	0.0	8,760.0		5,600.0	5,700.0	375.0	425.0

U 22 Howard Hall Howard Hall Boilers (Fourteen 0.38 MMBtu/hr natural gas boilers venting to one stack PT22)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Howard Hall Boiler #1 running on Natural Gas	Normal - Steady State	E2201		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS2	Boiler2 -NG	Howard Hall Boiler #2 running on Natural Gas	Normal - Steady State	E2202		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS3	Boiler3 -NG	Howard Hall Boiler #3 running on Natural Gas	Normal - Steady State	E2203		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS4	Boiler4 -NG	Howard Hall Boiler #4 running on Natural Gas	Normal - Steady State	E2204		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS5	Boiler5 -NG	Howard Hall Boiler #5 running on Natural Gas	Normal - Steady State	E2205		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS6	Boiler6 -NG	Howard Hall Boiler #6 running on Natural Gas	Normal - Steady State	E2206		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0

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Emission Unit/Batch Process Inventory

U 22 Howard Hall Howard Hall Boilers (Fourteen 0.38 MMBtu/hr natural gas boilers venting to one stack PT22)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS7	Boiler7 -NG	Howard Hall Boiler #7 running on Natural Gas	Normal - Steady State	E2207		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS8	Boiler8 -NG	Howard Hall Boiler #8 running on Natural Gas	Normal - Steady State	E2208		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS9	Boiler9 -NG	Howard Hall Boiler #9 running on Natural Gas	Normal - Steady State	E2209		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS10	Boiler10 -NG	Howard Hall Boiler #10 running on Natural Gas	Normal - Steady State	E2210		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS11	Boiler11 -NG	Howard Hall Boiler #11 running on Natural Gas	Normal - Steady State	E2211		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS12	Boiler12 -NG	Howard Hall Boiler #12 running on Natural Gas	Normal - Steady State	E2212		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS13	Boiler13 -NG	Howard Hall Boiler #13 running on Natural Gas	Normal - Steady State	E2213		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0
OS14	Boiler14 -NG	Howard Hall Boiler #14 running on Natural Gas	Normal - Steady State	E2214		PT22	1-03-006-03	0.0	8,760.0		1,575.0	1,625.0	275.0	325.0

U 26 Oakwood Hall Oakwood Hall Boilers (Four 0.3 MMBtu/hr boilers venting to one stack)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Oakwood Hall Boiler #1 running on Natural Gas	Normal - Steady State	E2601		PT26	1-03-006-03	0.0	8,760.0		600.0	650.0	325.0	375.0

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Emission Unit/Batch Process Inventory

U 26 Oakwood Hall Oakwood Hall Boilers (Four 0.3 MMBtu/hr boilers venting to one stack)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS2	Boiler2 -NG	Oakwood Hall Boiler #2 running on Natural Gas	Normal - Steady State	E2602		PT26	1-03-006-03	0.0	8,760.0		600.0	650.0	325.0	375.0
OS3	Boiler3 -NG	Oakwood Hall Boiler #3 running on Natural Gas	Normal - Steady State	E2603		PT26	1-03-006-03	0.0	8,760.0		600.0	650.0	325.0	375.0
OS4	Boiler4 -NG	Oakwood Hall Boiler #4 running on Natural Gas	Normal - Steady State	E2604		PT26	1-03-006-03	0.0	8,760.0		600.0	650.0	325.0	375.0

U 27 Library Guggenheim Library Boilers #1 & #2 (Two 2.34 MMBtu/hr boilers venting to one stack PT 27)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Library Blr1	Guggenheim Library Boiler #1 running on Natural Gas	Normal - Steady State	E2701		PT27	1-03-006-03	0.0	8,760.0					
OS2	Library Blr2	Guggenhaim Library Boiler #2 running on Natural Gas	Normal - Steady State	E2702		PT27	1-03-006-03	0.0	8,760.0					

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U 30 MAC EG MAC 300 kW Emergency Generator burning Diesel Fuel, 2009 Model Year, displacement < 10 liters/cylinder

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	MAC EG	MAC Bldg. Emergency Generator	Standby	E3001		PT30		300.0	300.0		2,092.0	2,831.0	791.4	1,071.0

U 31 DINING EG Dining Hall 600 kW Emergency Generator Burning Diesel Fuel, 2008 Model Year, displacement < 10 liters/cylinder

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Dining EG	Dining Hall Emergency Generator	Standby	E3101		PT31		250.0	250.0		5,456.0	7,382.0	1,105.0	1,495.0

U 32 MullaneyHall Mullaney Hall Boiler #1, Boiler #2, Boiler #3, 1.53 MMBtu/hr each, Burning Natural Gas

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	MullHallBlr1	Mullaney Hall Boiler # 1	Normal - Steady State	E3201		PT32		8,760.0	8,760.0		392.0	464.0	108.0	170.0

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U 32 MullaneyHall Mullaney Hall Boiler #1, Boiler #2, Boiler #3, 1.53 MMBtu/hr each, Burning Natural Gas

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	MullHallBlr1	Mullaney Hall Boiler # 2	Normal - Steady State	E3202		PT32		8,760.0	8,760.0		392.0	464.0	108.0	170.0
OS3	MullHallBlr1	Mullaney Hall Boiler # 3	Normal - Steady State	E3203		PT32		8,760.0	8,760.0		392.0	464.0	108.0	170.0

U 33 Hesse Hall Hesse Hall Hot Water Heaters (1.06 MMBtu/hr each burning NG venting to one stack PT33)

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	HesseHalHWH1	Hesse Hall Hot Water Heater #1 burning NG	Normal - Steady State	E3301		PT33	1-03-006-03	0.0	8,760.0		10.0	240.0	70.0	150.0
OS2	HesseHalHWH2	Hesse Hall Hot Water Heater #2 burning NG	Normal - Steady State	E3302		PT33	1-03-006-03	0.0	8,760.0		10.0	240.0	70.0	150.0

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U 50 FacMgmt AST Facilities Management 2,000-gallon Gasoline AST

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	FacMgmt AST	Facilities Management 2,000-gallon Gaoline AST	Normal - Steady State	E50		PT50		0.0	8,760.0		20.0	30.0	55.0	65.0

U 201 Health Ctr Health Center Boiler (1.223 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Health Center Boiler running on Natural Gas	Normal - Steady State	E2		PT201	1-03-006-03	0.0	8,760.0		525.0	575.0	375.0	425.0

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U 401 Fac. Mgmt. Facilities Management Boiler (1.379 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Boiler1 -NG	Facilities Management Boiler running on Natural Gas	Normal - Steady State	E4		PT401	1-03-006-03	0.0	8,760.0		475.0	525.0	375.0	425.0

U 501 CCIT Blr 2 CCIT Boiler #2 (2.1 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CCIT Blr 2	CCIT Boiler #2 running on Natural Gas	Normal - Steady State	E5		PT501	1-03-006-03	0.0	8,760.0		700.0	750.0	325.0	350.0

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U 601 CCIT Blr 1 CCIT Boiler #1 (2.1 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	CCIT Blr 1	CCIT Boiler #1 running on Natural Gas	Normal - Steady State	E6		PT501	1-03-006-03	0.0	8,760.0		700.0	750.0	325.0	350.0

U 1201 Beechwood Beechwood Hall Boiler (1.255 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Beechwood	Beechwood Hall Boiler running on Natural Gas	Normal - Steady State	E12		PT1201	1-03-006-03	0.0	8,760.0		475.0	525.0	275.0	325.0

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U 1401 Cedar Cedar Hall Boiler (1.255 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Cedar	Cedar Hall Boiler running on Natural Gas	Normal - Steady State	E14		PT1401	1-03-006-03	0.0	8,760.0		475.0	525.0	275.0	325.0

U 1501 Spruce Spruce Hall Boiler (1.255 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Spruce	Spruce Hall Boiler running on Natural Gas	Normal - Steady State	E15		PT1501	1-03-006-03	0.0	8,760.0		475.0	525.0	275.0	325.0

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U 1601 Willow Willow Hall Boiler (1.255 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Willow	Willow Hall Boiler running on Natural Gas	Normal - Steady State	E16		PT1601	1-03-006-03	0.0	8,760.0		475.0	525.0	275.0	325.0

U 1701 Laurel Laurel Hall Boiler (1.255 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Laurel	Laurel Hall Boiler running on Natural Gas	Normal - Steady State	E17		PT1701	1-03-006-03	0.0	8,760.0		475.0	525.0	275.0	325.0

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U 1801 Theatre Blr Guggenheim Theatre Boiler (1.30 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Theatre	Guggenheim Theatre Boiler running on Natural Gas	Normal - Steady State	E18		PT1801	1-03-006-03	0.0	8,760.0		425.0	475.0	375.0	425.0

U 1901 Dining Hall Dining Hall Boiler #1 (4.718 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Dining Blr 1	Dining Hall Boiler #1 running on Natural Gas	Normal - Steady State	E19		PT1001	1-03-006-03	0.0	8,760.0		875.0	925.0	325.0	375.0

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U 2001 Dining Hall Dining Hall Boiler #2 (4.718 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Dining Blr 2	Dining Hall Boiler #2 running on Natural Gas	Normal - Steady State	E20		PT1101	1-03-006-03	0.0	8,760.0		875.0	925.0	325.0	375.0

U 2801 Fac Mgmnt EG Facility Management Emergency Generator (1.15 MMBtu/hr)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Fac Mgmnt EG	Facilities Management Emergency Generator running diesel	Standby	E2801		PT2801	2-01-001-02	0.0	500.0		900.0	950.0	225.0	275.0

U 4001 MAC Boilers MAC Boilers 1,2,3 (8.67 MMBtu/hr each) firing natural gas

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	MAC Blr1	MAC Boiler #1 running natural gas	Normal - Steady State	E2901		PT2001	1-03-006-03	0.0	8,760.0		1,684.0	5,052.0	210.0	450.0

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U 4001 MAC Boilers MAC Boilers 1,2,3 (8.67 MMBtu/hr each) firing natural gas

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	MAC Blr2	MAC Boiler #2 running natural gas	Normal - Steady State	E2902		PT2001	1-03-006-03	0.0	8,760.0		1,684.0	5,052.0	210.0	450.0
OS3	MAC Blr3	MAC Boiler #3 running natural gas	Normal - Steady State	E2903		PT2001	1-03-006-03	0.0	8,760.0		1,684.0	5,052.0	210.0	450.0

U 4200 SchofSciBlrs School of Science Boilers 1-3 running on NG (3 MMBtu/hr each)

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	SchofSciBlr1	School of Science boiler 1 running on natural gas. Each boiler is 3.0 MMBtu/hr	Normal - Steady State	E4201		PT4201	1-03-006-03	0.0	8,760.0		160.0	200.0	140.0	180.0
OS2	SchofSciBlr2	School of Science boiler 2 running on natural gas. Each boiler is 3.0 MMBtu/hr	Normal - Steady State	E4202		PT4201	1-03-006-03	0.0	8,760.0		160.0	200.0	140.0	180.0
OS3	SchofSciBlr3	School of Science boiler 3 running on natural gas. Each boiler is 3.0 MMBtu/hr	Normal - Steady State	E4203		PT4201	1-03-006-03	0.0	8,760.0		160.0	200.0	140.0	180.0

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U 4401 SchofSciTemp School of Science temporary boiler running on NG (8.165 MMBtu.hr)

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	SchoFSci Tem	School of Science temporary boiler running on NG	Normal - Steady State	E4401		PT4401	1-03-006-03	0.0	8,760.0		2,043.0	8,025.0	318.0	350.0

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Subject Item Group Inventory

Group NJID: GR1 Boilers

Members:

Type	ID	OS	Step
IS	IS1		
IS	IS10		
IS	IS100		
IS	IS101		
IS	IS102		
IS	IS103		
IS	IS104		
IS	IS105		
IS	IS107		
IS	IS108		
IS	IS109		
IS	IS11		
IS	IS110		
IS	IS111		
IS	IS112		
IS	IS113		
IS	IS114		
IS	IS117		
IS	IS118		
IS	IS119		
IS	IS12		
IS	IS120		
IS	IS122		
IS	IS13		
IS	IS14		
IS	IS15		

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Members:

Type	ID	OS	Step
IS	IS16		
IS	IS17		
IS	IS2		
IS	IS21		
IS	IS25		
IS	IS26		
IS	IS27		
IS	IS28		
IS	IS3		
IS	IS31		
IS	IS32		
IS	IS34		
IS	IS38		
IS	IS39		
IS	IS4		
IS	IS40		
IS	IS41		
IS	IS42		
IS	IS43		
IS	IS44		
IS	IS47		
IS	IS48		
IS	IS49		
IS	IS51		
IS	IS60		
IS	IS61		
IS	IS62		

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Members:

Type	ID	OS	Step
IS	IS63		
IS	IS64		
IS	IS65		
IS	IS68		
IS	IS69		
IS	IS70		
IS	IS71		
IS	IS72		
IS	IS73		
IS	IS74		
IS	IS75		
IS	IS76		
IS	IS78		
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IS	IS91		
IS	IS94		
IS	IS95		
IS	IS96		
IS	IS97		
IS	IS98		
IS	IS99		

Formal Reason(s) for Group/Cap:

☑ Other

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Other (explain): Insignificant boilers / small combustion equipment with similiar requirements

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

Operating Circumstances: