



## State of New Jersey

PHILIP D. MURPHY  
Governor

TAHESHA L. WAY  
Lt. Governor

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

SHAWN M. LATOURETTE  
Commissioner

### Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP210002

Program Interest Number: 07349

Mailing Address	Plant Location
THOMAS LAUSTSEN CHIEF OPERATING OFFICER PASSAIC VALLEY SEWERAGE COMM 600 WILSON AVE Newark City, NJ 07105	PASSAIC VALLEY SEWERAGE COMMISSION 600 Wilson Ave Newark Essex County

Initial Operating Permit Approval Date: October 7, 2005  
Operating Permit Approval Date: PROPOSED  
Operating Permit Expiration Date: October 6, 2020 (operating under application shield)

#### AUTHORITY AND APPLICABILITY

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

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

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

#### PERMIT SHIELD

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 Timothy Pagodin at (609) 940-5694.

Approved by:

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Kevin Greener

Enclosure

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

**Facility Name: PASSAIC VALLEY SEWERAGE COMMISSION**  
**Program Interest Number: 07349**  
**Permit Activity Number: BOP210002**

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## Section A

**Facility Name: PASSAIC VALLEY SEWERAGE COMMISSION**

**Program Interest Number: 07349**

**Permit Activity Number: BOP210002**

### **POLLUTANT EMISSIONS SUMMARY**

Table 1: Total emissions from all Significant Source Operations<sup>1</sup> at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs* (total)	CO <sub>2</sub> e <sup>3</sup>
Emission Units Summary	78.1	66.6	107	25.6	16.8	17.8	2.78	N/A	16.0	
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	78.1	66.6	107	25.6	16.8	17.8	2.78	N/A	16.0	310,000

Table 2: Estimate of total emissions from all Insignificant Source Operations<sup>1</sup> 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 <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> <sup>2</sup> (total)	Pb	HAPs (total)
Insignificant Source Operations	3.55	9.20	0.50	N/A	0.10	0.10	0.10	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

NO<sub>x</sub>: Nitrogen Oxides

CO: Carbon Monoxide

SO<sub>2</sub>: Sulfur Dioxide

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

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM<sub>10</sub>: Particulates under 10 microns

PM<sub>2.5</sub>: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO<sub>2</sub>e: Carbon Dioxide equivalent

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

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

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

<sup>2</sup> PM<sub>2.5</sub> has been included in air permitting rules as of December 9, 2017. Consequently, PM<sub>2.5</sub> totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

<sup>3</sup> Total CO<sub>2</sub>e emissions for the facility.



## Section A

**Facility Name: PASSAIC VALLEY SEWERAGE COMMISSION**

**Program Interest Number: 07349**

**Permit Activity Number: BOP210002**

### **POLLUTANT EMISSIONS SUMMARY**

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

HAP	TPY
Tetrachloroethane (1,1,2,2-)	0.0760
Butadiene (1,3-)	0.412
Dichlorobenzene (1,4-)	2.52
Acetaldehyde	0.300
Acrolein	0.0110
Acrylonitrile	0.0400
Benzene	0.390
Chloroform	4.41
Ethylene dibromide	0.0000911
Ethylene dichloride	1.84
Formaldehyde	0.506
Hydrogen chloride	1.06
Hydrogen sulfide	0.864
Phenol	0.0510
Styrene	1.37
Vinyl acetate	0.100
Xylene	2.84

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

Other Air Contaminant	TPY
Ammonia	21.1

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<sup>4</sup> 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: PASSAIC VALLEY SEWERAGE COMMISSION**

**Program Interest Number: 07349**

**Permit Activity Number: BOP210002**

### **GENERAL PROVISIONS AND AUTHORITIES**

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
  - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
    - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
    - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
  - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
  - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare, or the environment and which will not likely result in citizen complaints, and the permittee intends to assert an affirmative defense, consistent with General Provision #10 below, the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence.
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:
  - i. The provision or condition of the operating permit is based solely on State or local law; and
  - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.
16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.

- a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
  - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
  - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
  - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
  - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
  - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
  - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
  - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
  19. The permittee is responsible for submitting timely and administratively complete operating permit applications:
    - Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
    - Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
    - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
    - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
    - Renewals [N.J.A.C. 7:27-22.30(b)].
  20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <https://dep.nj.gov/boss/applications-and-forms/> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: <https://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that

the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
  - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
  - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
25. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of “1 lb/hr” means a limit of “1.00 lb/hr”) except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of “1 ppm” means a limit of “1.0 ppm”).
26. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.
27. Special Conditions derived from an Environmental Justice Decision may not be changed unless a modification request is proposed and the Department determines that there is good cause shown for the request and that the emissions reductions derived from the Special Conditions would not be decreased as a result of the modification.

## Section C

**Facility Name: PASSAIC VALLEY SEWERAGE COMMISSION**

**Program Interest Number: 07349**

**Permit Activity Number: BOP210002**

### **STATE-ONLY APPLICABLE REQUIREMENTS**

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

### **STATE-ONLY APPLICABLE REQUIREMENTS**

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9
D	GR	2	1-12

## Section D

**Facility Name: PASSAIC VALLEY SEWERAGE COMMISSION**

**Program Interest Number: 07349**

**Permit Activity Number: BOP210002**

### **FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES**

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#### **Subject Item and Name**

#### **Page Number**

##### **Facility (FC):**

FC

1

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IS2	16 Boilers and Water Heaters, Indirect Fired - Max Gross Heat Input < 1 MMBtu/hr	8
IS3	21 Space Heaters and Thermal Oxidizers, Direct Fired - Max Gross Heat Input < 1 MMBtu/hr	9
IS5	6 Cold Cleaning Machines <=6 sq. ft., open top, <= 100 gal capacity, > 2 gal solvents, > 5% VOC content	10

##### **Groups (GR):**

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GR2	EJ	EJ Special Conditions	19

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U7	Scr Blrs 1,2	Grit and Screening Boilers #1 & #2 (1.701 MMBtu/hr each). One boiler is primary, the second is standby.	29
U8	PumpBlrs 1,2	Wet Weather Pump Station Boilers #1 & #2 (1.714 MMBtu/hr each). One boiler is primary, the second is standby.	31
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U49	Grav Thicknr	Gravity Thickeners (Grandfathered)	97
U50	ClFacilities	Chlorination Facilities (Grandfathered)	99
U54	Centruge 1-5	Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)	101
U101	SST Stack	Sludge Pumping Station and Sludge Storage Tanks #1, #2, #5, #6	106
U102	EGs	Emergency Diesel Generators	110
U301	NG Turbines	Three Natural Gas Turbines	132
U304	NG Engines	Two Emergency Black Start Engines	167
U306	DS FP Engns	Two Emergency Diesel Fire Pump Engines	176



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

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 230004

**Description of Modifications:**      The following changes were made to the operating permit during this modification process:

1. Installation of three (3) 315 MMBtu/hr 28 MW natural gas-fired combustion turbine generators (CTGs) controlled by selective catalytic reduction (SCR) and oxidation catalyst (OC) (Emission Unit U301, Operating Scenarios OS1-3,5-7, and 9-15, Equipment E3001-3003, Control Devices CD31-36, Emission Points PT301-303).
2. Installation of two (2) 18.7 MMBtu/hr 2 MW natural gas-fired emergency black start generators (BSGs) (Emission Unit U304, Operating Scenarios OS1-2, Equipment E3004-3005, Emission Points PT304-305).
3. Installation of two (2) 1.54 MMBtu/hr 147 kW diesel-fired emergency fire pump engines (FPEs) (Emission Unit U306, Operating Scenarios OS1-2, Equipment E3006-3007, Emission Points PT306-307).
4. Inclusion of EJ Special Conditions in Group GR2.

The changes made during this permit activity result in allowable annual emissions changes as follows:

Increase of VOC by 1.34 tons, increase of NOx by 2.21 tons, increase of CO by 4.09 tons, increase of SO2 by 0.670 tons, increase of TSP by 2.78 tons, increase of PM-10 by 2.78 tons, increase of PM-2.5 by 2.78 tons, increase of HAPs (Total) by 0.267 tons, increase of acrolein by 0.0110 tons, increase of ethylene dibromide by 0.0000911 tons, increase of formaldehyde by 0.256 tons, and an increase of ammonia by 1.31 tons

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

Subject Item: FC

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

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

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

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

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

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

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

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

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

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

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

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

**Subject Item:** IS1 7 Storage Tanks - Vapor Pressure < 0.02 psia or Capacity < 2000 gal

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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.
2	Any tank's potential to emit any Group 1 or Group 2 TXS (or a combination thereof) shall not exceed a rate greater than 0.1 pounds per hour. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 Parts per Million. (effective July 1, 2016). [N.J.A.C. 7:27- 9.2(a)]	None.	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 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.



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

**Subject Item:** IS2 16 Boilers and Water Heaters, Indirect Fired - Max Gross Heat Input < 1 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	Fuel limited to natural gas or #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 Parts per Million. (effective July 1, 2016) for Zone 4 (Essex County). [N.J.A.C. 7:27- 9.2(b)]	None.	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 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(b)]	None.	None.	None.

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

**Subject Item:** IS3 21 Space Heaters and Thermal Oxidizers, Direct Fired - Max Gross Heat Input < 1 MMBtu/hr

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 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	Fuel limited to natural gas or #2 fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 Parts per Million. (effective July 1, 2016). [N.J.A.C. 7:27- 9.2(b)]	None.	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 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(b)]	None.	None.	None.

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

**Subject Item:** IS5 6 Cold Cleaning Machines <=6 sq. ft., open top, <= 100 gal capacity, > 2 gal solvents, > 5% VOC content

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The following provisions (Ref. #2 through 7) shall apply to a cold cleaning machine, that uses two gallons or more of solvents containing greater than five percent VOC content by weight for the cleaning of metal parts, and to any heated cleaning machine. [N.J.A.C. 7:27-16.6(j)]	None.	None.	None.
2	<p>No person shall add solvent to a cold cleaning machine or a heated cleaning machine, or cause, suffer, allow, or permit the machine to be operated, unless the following requirements are met:</p> <p>i. If the machine is an immersion cold cleaning machine or heated cleaning machine, it shall have:</p> <p>(1) A freeboard ratio of 0.75 or greater; and</p> <p>(2) A visible fill line and a high level liquid mark;</p> <p>ii. The machine shall have a permanent, conspicuous label placed in a prominent location on the machine setting forth the applicable provisions of the operating requirements in N.J.A.C. 7:27-16.6(j)2 below (Ref.#3 through 5); and</p> <p>iii. The machine shall be equipped with:</p> <p>(1) A tightly fitting working-mode cover that completely covers the machine's opening and that shall be kept closed at all times except when parts are being placed into or being removed from the machine or when solvent is being added or removed. For a remote reservoir cold cleaning machine which drains directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six inches shall constitute an acceptable cover; and</p> <p>(2) If the machine is a heated cleaning machine, a thermostat. [N.J.A.C. 7:27-16.6(j)1]</p>	None.	None.	None.

IS5 6 Cold Cleaning Machines <=6 sq. ft., open top, <= 100 gal capacity, > ...

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures:</p> <p>i. The solvent level in the machine shall not exceed the fill line when there are no parts in the machine for cleaning and shall not exceed the high level liquid mark during cleaning operations;</p> <p>ii. Flushing of parts with a solvent spray, using a spray head attached to a flexible hose or other flushing device, shall be performed only within the freeboard area of the machine. The solvent spray shall be a continuous fluid stream, not an atomized or shower spray, and shall be under a pressure that does not exceed ten pounds per square inch gauge;</p> <p>iii. Parts being cleaned shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that solvent drains directly back into the machine. [N.J.A.C. 7:27-16.6(j)2i, ii] and. [N.J.A.C. 7:27-16.6(j)2iii]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures:</p> <p>iv. When the machine's cover is open, the machine shall not be exposed to drafts greater than 40 meters per minute (132 feet per minute), as measured between one and two meters (between 3.3 and 6.6 feet) upwind and at the same elevation as the tank lip;</p> <p>v. Sponges, fabric, leather, paper products and other absorbent materials shall not be cleaned in the machine;</p> <p>vi. When a pump-agitated solvent bath is used, the agitator shall be operated to produce a rolling motion of the solvent with no observable splashing of solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used;</p> <p>vii. Spills during solvent transfer and use of the machine shall be cleaned up immediately, and the wipe rags or other sorbent material used shall be immediately stored in covered containers for disposal or recycling;</p> <p>viii. Waste solvent shall be collected and stored in a closed container. The closed container may contain a device that allows pressure relief, provided that it does not allow liquid solvent to drain from the container. [N.J.A.C. 7:27-16.6(j)2iv through vii] and. [N.J.A.C. 7:27-16.6(j)2viii]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	A person shall operate a cold cleaning machine or a heated cleaning machine in accordance with the following procedures: ix. Work area fans shall be located and positioned so that they do not blow across the opening of the degreaser unit; and x. If the machine is a heated cleaning machine, the solvent shall be maintained at a temperature that is below its boiling point. [N.J.A.C. 7:27-16.6(j)2ix] and [N.J.A.C. 7:27-16.6(j)2x]	None.	None.	None.
6	A person shall not use, in a cold cleaning machine or a heated cleaning machine, any solvent that has a vapor pressure of one millimeter of mercury or greater, measured at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)3]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>A person who owns or operates a cold cleaning machine or a heated cleaning machine shall maintain, for not less than two years after the date of purchase of solvent for use in the machine, the information specified below and shall, upon the request of the Department or its representative, provide the information to the Department:</p> <ul style="list-style-type: none"> <li>i. The name and address of the person selling the solvent. An invoice, bill of sale, or a certificate that corresponds to a number of sales, if it has the seller's name and address on it, may be used to satisfy this requirement;</li> <li>ii. A list of VOC(s) and their concentration information in the solvent;</li> <li>iii. Information about each VOC listed pursuant to ii above. A Material Safety Data Sheet (MSDS) may be used to satisfy this requirement;</li> <li>iv. The solvents product number assigned by the manufacturer; and</li> <li>v. The vapor pressure of the solvent measured in millimeters of mercury at 20 degrees centigrade (68 degrees Fahrenheit). [N.J.A.C. 7:27-16.6(j)4i through iv] and. [N.J.A.C. 7:27-16.6(j)4v]</li> </ul>	None.	Other: Maintain readily available records for two years[N.J.A.C. 7:27-16.6(j)4].	None.

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

**Subject Item:** GR1 NSPS Subparts A & Dc requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Region II, Director, Air and Waste Management Division, US Environmental Protection Agency, 21st Floor, 290 Broadway, New York, NY 10007. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
2	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
3	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
4	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region II and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]



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

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

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

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
10	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
11	The owner or operator shall record the amount of each fuel combusted in the unit each calendar month. [40 CFR 60.48(c)(g)(2)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a bound log book or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
12	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48(c)]	None.	None.	None.

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

**Subject Item:** GR2 EJ Special Conditions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>PVSC is authorized to operate the combustion gas turbine generators (CTGs) under the following conditions:</p> <p>a. Up to forty-eight (48) hours in advance of a storm event with notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.</p> <p>i. "Storm event" is defined as: storms determined by the New Jersey Office of Emergency Management as having the capability of disrupting power service to the facility.</p> <p>ii. Maximum annual hours: 960 total (2 units x 10 storm events)</p> <p>b. Emergency Operation where a power outage has occurred because of an emergency; or a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu with notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.</p> <p>i. An emergency is defined as any situation that arises from sudden and reasonably unforeseeable events beyond the control of an owner or operator of a facility, such as an unforeseen system capacity shortage caused by an act of God, that requires immediate corrective action to prevent system collapse or to restore normal operations at the facility. [N.J.S.A. C.13:1D-160(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>PVSC is authorized to operate the combustion gas turbine generators (CTGs) under the following conditions:</p> <p>c. Once per month for necessary testing and maintenance upon 48 hours' notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.</p> <p>i. Testing and maintenance operations shall be conducted each month but are not authorized for a unit in months where that unit has already operated.</p> <p>ii. Maximum annual hours: 288 (96 per unit)</p> <p>i. Maximum monthly hours: 24 ii. Maximum daily hours: 8 per unit</p> <p>d. Maximum total annual hours of CTG operation for storm event preparation and testing and maintenance are not to exceed 1,248 hours.</p> <p>e. CTG operation, including black start capability, under (a) and (b) above may only be commenced where options for utilization of onsite renewable energy source (i.e. battery, solar or other future installations) have been exhausted. This does not apply to the operation of the CTGs during storm preparation mode. [N.J.S.A. C.13:1D-160(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Decommission Operations and Maintenance (O&M) Building Boilers #2 and #3 listed as U11 in PVSC's Title V Air Pollution Control Operating Permit by December 31, 2027, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Demonstrate compliance: Upon occurrence of event.  PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]
4	Decommission the Head End Emergency Generator (600-kilowatt (kW) diesel engine generator) listed as U102 OS1 "CAT 600" in PVSC's Title V Permit within 120 days of completing commissioning of the SPGF, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace the equipment, the replacement must be powered by a renewable energy source. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Demonstrate compliance: Upon occurrence of event.  PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]
5	Decommission two Oxygen Production Boilers designated as U5 Oxygen Production Boilers 1 & 2 in the Title V Permit by December 31, 2027, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Demonstrate compliance: Upon occurrence of event.  PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]
6	Decommission two Grit and Screening Boilers designated as U7 Grit and Screening Boilers 1 & 2 in the Title V Permit by December 31, 2025, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Demonstrate compliance: Upon occurrence of event.  PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Install air pollution control equipment to the four currently uncontrolled Sludge Heat Treatment ("Zimpro") Boilers listed as U20 in the Title V Permit by December 31, 2027, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace any of the four boilers, the new units must be powered by a renewable energy source. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Submit the required air permit application(s): As per the approved schedule.  PVSC shall submit an application to the Department to install and operate State-of-the-Art air pollution control devices, including, but not limited to, selective catalytic reduction (SCR) and oxidation catalyst (OC) systems by June 30, 2026, unless a written extension request is submitted to and approved, in writing, by the Department. [N.J.S.A. C.13:1D-160(d)]
8	Install the maximum feasible and no less than five (5) MW of solar panels at the PVSC Facility by December 31, 2026, unless a written extension request is submitted to and approved by the Department. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Submit required documents: As per the approved schedule.  By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the maximum feasible solar capacity and proposing an installation schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]
9	Install the maximum feasible and no less than five (5) MW of battery storage capacity at the PVSC Facility by December 31, 2026, unless a written extension request is submitted to and approved, in writing, by the Department. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Submit required documents: As per the approved schedule.  By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the maximum feasible battery storage capacity and proposing an installation schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PVSC shall initiate the transition of the CTGs from natural gas to green hydrogen or another technically feasible renewable energy source within 120 days of commissioning the SPGF, unless a written extension request is submitted to and approved, in writing, by the Department. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Submit required documents: As per the approved schedule.  By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the transition options and proposing a transition schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website. [N.J.S.A. C.13:1D-160(d)]
11	PVSC shall submit a semi-annual Environmental Justice Compliance Report (Report) to the Department (through the Office of Permitting & Project Navigation) on January 31 and July 31 of each year. The Report shall address each Special Condition and include (a) a restatement of the condition, (b) a summary of PVSC's efforts to fulfill each condition, (c) a detailed explanation of the compliance activities undertaken during the preceding six month reporting period, and (d) a description of compliance activities anticipated in the forthcoming six month reporting period. PVSC shall distribute each Report to the Ironbound Community Corporation and through a public notice on PVSC's website. The semi-annual reporting will be deemed complete once all Special Conditions have been met. [N.J.S.A. C.13:1D-160(d)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. [N.J.S.A. C.13:1D-160(d)]
12	Failure to comply with any Special Condition shall be deemed an ongoing violation of PVSC's Title V Permit that constitutes grounds for revocation of authority to operate the SPGF. [N.J.S.A. C.13:1D-160(d)]	None.	None.	None.



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

**Emission Unit:** U5 Oxygen Production Building Boilers #1 & #2 (10.4 MMBtu/hr each)

**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)]	Monitored by visual determination each month during operation when burning #2 Fuel Oil and none when burning Natural Gas. . Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Monthly when burning #2 Fuel Oil and none when burning Natural Gas. 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	Particulate Emissions <= 8.08 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source, two boilers to one stack (total 20.8 MMBtu/hr). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Maximum Gross Heat Input <= 10.4 MMBTU/hr (HHV) each boiler from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain documentation of fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
4	Maximum Gross Heat Input <= 45,552 MMBTU (HHV) per any 12 consecutive month period Annual heat input (each boiler), based on 10.4 MMBtu/hr and 4380 hr/yr. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Other: Manual logging of heat input or other method approved by the Northern Regional Office (NRO). Monthly. Operating logs shall be kept to accurately record the operating time and type and quantity of each fuel burned. Compliance with the maximum 12-month heat input limit shall be demonstrated monthly through fuel use records and the application of the following equation:  $\text{Actual 12-month Heat Input (Btu)} = [(\text{x SCF Natural Gas}) (1020 \text{ Btu/SCF})] + [(\text{y Gal. \#2 Fuel Oil}) (142,000 \text{ Btu/ Gal.})]$ <p>where "x" and "y" are the actual amounts of natural gas and #2 fuel oil combusted, respectively, based on fuel use records per consecutive 12-month period.[N.J.A.C. 7:27-22.16(o)].</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$ , where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - \text{O2 measured})$ , where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a> . Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a> . [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	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: Monitor and maintain 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. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted[N.J.A.C. 7:27-19.16(e)].	None.
7	Boiler fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Natural Gas Usage $\leq 72$ MMft <sup>3</sup> /yr (total for both boilers). Annual fuel use limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Totalizing Fuel Meter(s). Continuously.[N.J.A.C. 7:27-22.16(e)].	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation Manual logging of total fuel consumption in a bound logbook or in readily accessible computer files. Monthly. [N.J.A.C. 7:27-22.16(e)]	None.
9	VOC (Total) $\leq 0.266$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	NOx (Total) $\leq 7.01$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	CO $\leq 1.62$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	SO <sub>2</sub> $\leq 11.5$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP $\leq 0.532$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	PM-10 (Total) $\leq 0.532$ tons/yr annual emission limit for both boilers based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U5 Oxygen Production Building Boilers #1 & #2 (10.4 MMBtu/hr each)

**Operating Scenario:** OS1 Boiler #1 firing natural gas, OS2 Boiler #2 firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO <sub>x</sub> (Total) <= 1.436 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	CO <= 0.359 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	TSP <= 0.05 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U7 Grit and Screening Boilers #1 & #2 (1.701 MMBtu/hr each). One boiler is primary, the second is standby.

**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 <= 2.04 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source (two 1.701 MMBtu/hr boilers). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 1.701 MMBTU/hr (HHV) (each boiler) from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
4	Boiler fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Natural Gas Usage <= 29.14 MMft <sup>3</sup> /yr. Annual fuel use limit total for both boilers from BOP130006. [N.J.A.C. 7:27-22.16(a)]	Other: Totalizing Fuel Meter. Continuously.[N.J.A.C. 7:27-22.16(o)].	Other: Manual logging of fuel consumption in a logbook or readily accessible computer files. Annually.[N.J.A.C. 7:27-22.16(o)].	None.
6	NOx (Total) <= 0.98 tons/yr annual emission limit total for both boilers based on total combined annual fuel use from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.82 tons/yr annual emission limit total for both boilers based on total combined annual fuel use from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U7 Grit and Screening Boilers #1 & #2 (1.701 MMBtu/hr each). One boiler is primary, the second is standby.

**Operating Scenario:** OS1 Boiler #1 firing natural gas, OS2 Boiler #2 firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO <sub>x</sub> (Total) ≤ 0.112 lb/hr maximum emission rate for each boiler from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO ≤ 0.094 lb/hr maximum emission rate for each boiler from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum emission rates of VOC, SO <sub>2</sub> , TSP, and PM-10 from BOP130006 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.

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

**Emission Unit:** U8 Wet Weather Pump Station Boilers #1 & #2 (1.714 MMBtu/hr each). One boiler is primary, the second is standby.

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A and Subpart CCCCCC.  [None]	None.	None.	None.
2	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.
3	Particulate Emissions <= 2.04 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source (two 1.714 MMBtu/hr boilers). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.714 MMBTU/hr (HHV) from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
5	Boiler fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Natural Gas Usage <= 29.14 MMft <sup>3</sup> /yr (total for both boilers). Annual fuel use limit from BOP130006. [N.J.A.C. 7:27-22.16(a)]	Other: Totalizing Fuel Meter(s). 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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	NOx (Total) <= 0.98 tons/yr annual emission limit for both boilers based on total combined annual fuel use from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 0.82 tons/yr annual emission limit for both boilers based on total combined annual fuel use from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

**Emission Unit:** U8 Wet Weather Pump Station Boilers #1 & #2 (1.714 MMBtu/hr each). One boiler is primary, the second is standby.

**Operating Scenario:** OS1 Boiler #1 firing natural gas, OS2 Boiler #2 firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO <sub>x</sub> (Total) <= 0.112 lb/hr maximum emission rate for each boiler from BOP130006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.094 lb/hr maximum emission rate for each boiler from BOP130006.. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum emission rates of VOC, SO <sub>2</sub> , TSP, and PM-10 from BOP130006 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.

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

**Emission Unit:** U9 Vehicle Maintenance Gasoline Underground Storage Tanks #1 and #2. (Tank 1 - 10,000 gallons & Tank 2 - 6,000 gallons)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 63 Subpart A 40 CFR 63 Subpart CCCCCC [40 CFR 63]	None.	None.	None.
2	Tank content limited to gasoline with Vapor Pressure $\leq$ 8 psia. [N.J.A.C. 7:27-22.16(a)]	Vapor Pressure: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Vapor Pressure: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The permittee shall maintain records specifying each material stored and its vapor pressure at standard conditions. [N.J.A.C. 7:27-16.2(s)1]	None.
3	Total Throughput $<$ 10,000 gallons of gasoline per month. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations daily. The permittee shall calculate the monthly throughput by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks during the previous 364 days, and then dividing that sum by 12. (MACT Subpart CCCCCC). [40 CFR 63.11132]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The permittee shall maintain records of daily total gasoline throughput and average monthly gasoline throughput. The permittee must have records available within 24 hours of a request by the Administrator to document gasoline throughput. (MACT Subpart CCCCCC) [40 CFR 63.1116(b)] &. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Throughput $\leq$ 119,000 gal/yr of gasoline. [N.J.A.C. 7:27-22.16(a)]	None.	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. The permittee shall record monthly and annual gasoline throughput rates. [N.J.A.C. 7:27-16.3(t)1]	None.
5	VOC (Total) $\leq$ 0.3 tons/yr based on total throughput. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	The transfer of gasoline into the storage tanks shall be made through a submerged fill pipe. The submerged fill pipe shall be permanently affixed to the tank. [N.J.A.C. 7:27-16.3(c)1i]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The tanks 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.
8	The tanks shall be equipped a pressure/vacuum relief valve on each atmospheric vent. [N.J.A.C. 7:27-16.3(d)2]	None.	None.	None.
9	The tanks shall be equipped with a CARB-certified Phase I EVR system pressure/vacuum relief vent valve. [N.J.A.C. 7:27-16.3(d)3]	None.	None.	None.
10	The tanks shall be equipped with a CARB-certified Phase I 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. [N.J.A.C. 7:27-16.3(d)4]	None.	None.	None.
11	The Permittee shall ensure that during the transfer of gasoline into any gasoline-laden vehicular fuel tank, any person refueling a vehicle prevents overfilling and spillage and does 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.
12	The Permittee shall ensure that each dispensing device that dispenses more than one grade of gasoline utilizes a unihose system for dispensing gasoline. [N.J.A.C. 7:27-16.3(g)2]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The Permittee shall ensure that each nozzle is a CARB-certified enhanced conventional (ECO) nozzles in accordance with CARB certification procedure CP-207, as amended or supplemented. 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.
14	The Permittee shall ensure that each dispenser hose is a CARB-certified low permeation hose in accordance with CARB certification procedures CP-201 and CP-207, as amended or supplemented. [N.J.A.C. 7:27-16.3(g)4]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	<p>The 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.</p> <p>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)]</p>	<p>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: <a href="https://www.arb.ca.gov/vapor/vapor.htm">https://www.arb.ca.gov/vapor/vapor.htm</a>. 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: <a href="https://www.arb.ca.gov/vapor/vapor.htm">https://www.arb.ca.gov/vapor/vapor.htm</a>. [N.J.A.C. 7:27-16.3(j)].</p>	<p>Other: The permittee shall maintain the following records at the facility and have it accessible to the Department upon request:</p> <p>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</p> <p>ii. Record of each test results of each test performed.</p> <p>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] &amp; [N.J.A.C. 7:27-16.3(j)4].</p>	<p>Repair equipment: Upon occurrence of event. Upon failure of any test the permittee shall:</p> <p>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.</p> <p>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.</p> <p>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)]</p>
16	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.	None.	None.
17	The permittee shall not conduct the transfer of gasoline from delivery vessels under a vacuum in excess of 6 inches of water. [N.J.A.C. 7:27-16.3(l)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	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.
19	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.
20	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.
21	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.
22	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The Permittee must minimize gasoline spills, clean up spills expeditiously; cover gasoline containers and storage tank fill pipes with a gasketed seal, and minimize gasoline sent to open collection systems. (MACT Subpart CCCCCC) [40 CFR 63.11116(a)]	None.	None.	None.
24	The permittee shall keep the following records: (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.	None.	None.
25	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.

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

**Emission Unit:** U11 Operations & Maintenance Building 24.5 MMBTU/hr Boilers #2 & #3 subject to NSPS De

**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)]	Monitored by visual determination each week during operation when burning #2 Fuel Oil and none when burning Natural Gas. . Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Weekly when burning #2 Fuel Oil and none when burning Natural Gas. 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	Particulate Emissions <= 8.45 lb/hr. Particulate emission limit per boiler from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.



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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$ , where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - \text{O2 measured})$ , where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a> . Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a> . [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
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: Monitor and maintain 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. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted[N.J.A.C. 7:27-19.16(e)].	None.
5	The fuel for each boiler is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	Other: Maintain records indicating when each boiler is operating. Continuously.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Record the following for each boiler: 1.) Brief description, location, and stack designation of the boiler; 2.) Date and start time, date and end time, type of fuel (natural gas or No. 2 oil) and amount of fuel combusted; and 3.) Hours of operation of the boiler during No. 2 oil combustion in a calendar year. [N.J.A.C. 7:27-22.16(e)]	None.
6	Maximum Gross Heat Input <= 24.5 MMBTU/hr (HHV) (each boiler) . From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of fuel burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Maximum Gross Heat Input $\leq$ 429,240 MMBTU (HHV) per any 12 consecutive month period. Annual heat input (total for two boilers) based on two 24.5 MMBtu/hr boilers operating 8760 hr/yr from BOP080002. [N.J.A.C. 7:27-22.16(e)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	<p>Other: Manual logging of heat input or other method approved by the Northern Regional Office (NRO). Monthly. Operating logs shall be kept to accurately record the operating time and type and quantity of each fuel burned. Compliance with the maximum 12-month heat input limit shall be demonstrated monthly through fuel use records and the application of the following equation:</p> $\text{Actual 12-month Heat Input (Btu)} = [(\text{x SCF Natural Gas}) (1020 \text{ Btu/SCF})] + [(\text{y Gal. \#2 Fuel Oil}) (140,000 \text{ Btu/ Gal.})]$ <p>where "x" and "y" are the actual amounts of natural gas and #2 fuel oil combusted, respectively, based on fuel use records per consecutive 12-month period.</p> <p>This procedure will begin with the first full month following the final issuance of the Operating Permit. This accounting will not include fuel consumption during months prior to the approval of the Operating Permit. The permittee will select the time period for accounting, such as fiscal month, calendar month, or production month. Once selected, the period must not be changed without prior approval from NJDEP.[N.J.A.C. 7:27-22.16(o)].</p>	None.
8	VOC (Total) $\leq$ 0.85 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) $\leq$ 8.92 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 8.49 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO2 <= 3.93 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. From BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 2.37 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 2.37 tons/yr. Annual emission limit for two boilers based on total combined worst case annual fuel use. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60. (NSPS Subpart A & Subpart Dc). See GR1. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60. (NSPS Subpart A & Dc)[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60. (NSPS Subpart A & Dc)[40 CFR 60].	Comply with the requirement: As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. (NSPS Subpart A & Dc). [40 CFR 60]

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

**Emission Unit:** U11 Operations & Maintenance Building 24.5 MMBTU/hr Boilers #2 & #3 subject to NSPS De

**Operating Scenario:** OS8 Boiler #2 firing natural gas, OS9 Boiler #3 firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.098 lb/hr maximum emission rate from BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.857 lb/hr maximum emission rate from BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.98 lb/hr maximum emission rate from BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.245 lb/hr maximum emission rate from BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.245 lb/hr maximum emission rate from BOP080002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U12 Lime Storage Silos #1, #2 and #3, each with baghouse for particulate control (CD1, CD2 and CD3)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	TSP <= 0.5 lb/hr. Maximum allowable particulate emission rate from source emission point based on 0.02 grains per SCF of stack gas flow as determined in the Table at N.J.A.C. 7:27-6.2(a). [N.J.A.C. 7:27- 6.2]	None.	None.	None.
3	TSP <= 0.05 lb/hr. Maximum emission rate for each silo. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Raw materials limited to lime. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Silo capacity <= 19,000 cubic feet. (Each silo) [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Hours of Operation <= 156 hr/yr for each silo. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	The control devices (CD1, CD2 and CD3) shall be maintained to comply with the design and control efficiencies specified in the control device details section of the application for this operating permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Each silo shall vent to its baghouse at all times. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	The permittee shall inspect and maintain the dust collectors at least annually and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained. The dust collectors shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Each instance of dust collector maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(o)]	None.

U12 Lime Storage Silos #1, #2 and #3, each with baghouse for particulate co.

OS Summary

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

**Emission Unit:** U15 Centrifuge Sludge Dewatering Odor Control System (CD4 and CD5)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	The equipment in this emission unit is subject to the sulfur compound emission standards of N.J.A.C. 7:27-7. [N.J.A.C. 7:27- 7]	Other: Monitor by calculations every five years. Comply, as applicable, with all monitoring requirements of N.J.A.C. 7:27-7.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain calculations in a bound logbook or readily available computer file.[N.J.A.C. 7:27-22.16(o)].	None.
3	All emissions from this emission unit shall be exhausted through a control device. The two scrubbers shall be operating at all times that the emission unit is operating, except during maintenance when each scrubber may be shut down for a total of thirty six (36) hours per quarter. The scrubbers may not be shut down simultaneously. [N.J.A.C. 7:27-22.16(e)]	Other: Maintain records indicating when each scrubber is operating.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of the date, the time, and the duration of each shutdown in a logbook or readily accessible computer file.[N.J.A.C. 7:27-22.16(e)].	None.
4	The control devices (CD4 and CD5) shall be maintained to comply with the design and control efficiencies specified in the control device details section of the application for this operating permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Scrubbing Medium Flow Rate >= 170 and Scrubbing Medium Flow Rate <= 220 gal/min for Odor Control Scrubber CD4. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart continuously or by data acquisition system. [N.J.A.C. 7:27-22.16(o)]	None.
6	Scrubbing Medium Flow Rate >= 80 and Scrubbing Medium Flow Rate <= 140 gal/min for Ammonia Scrubber CD5. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart continuously or by data acquisition system. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	pH of the Scrubbing Solution at the Inlet of the Scrubber $\geq 8$ and pH of the Scrubbing Solution at the Inlet of the Scrubber $\leq 10$ standard units for Odor Control Scrubber CD4. [N.J.A.C. 7:27-22.16(e)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Monitored by pH instrument continuously. [N.J.A.C. 7:27-22.16(e)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by strip chart continuously or by data acquisition system. [N.J.A.C. 7:27-22.16(o)]	None.
8	pH of the Scrubbing Solution at the Inlet of the Scrubber $\geq 2$ and pH of the Scrubbing Solution at the Inlet of the Scrubber $\leq 5$ standard units for the Ammonia Scrubber CD5. [N.J.A.C. 7:27-22.16(e)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Monitored by pH instrument continuously. [N.J.A.C. 7:27-22.16(e)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by strip chart continuously or by data acquisition system. [N.J.A.C. 7:27-22.16(o)]	None.
9	VOC (Total) $\leq 8.8$ tons/yr annual emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
10	Ammonia $\leq 0.063$ tons/yr annual emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
11	Hydrogen sulfide $\leq 0.38$ tons/yr annual emission limit from BOP140004. [N.J.A.C. 7:27-22.16(e)]	Hydrogen sulfide: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
12	VOC (Total) $\leq 1.99$ lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
13	Ammonia $\leq 0.0147$ lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
14	Hydrogen sulfide $\leq 0.0875$ lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Hydrogen sulfide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.



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

**Emission Unit:** U16 Zimpro Odor Control System (CD7 and CD8)

**Operating Scenario:** OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p><b>STACK TESTING SUMMARY</b> The permittee shall conduct a stack test no later than every five years from the last stack test using an approved protocol to demonstrate compliance with emission limits for total VOC, total TXS, SO<sub>2</sub>, Hydrogen Chloride, TSP, PM-10, CO, NO<sub>x</sub>, Benzene, Chloroform, Ethylene Dichloride, and Tetrachloroethane (1,1,2,2) emission limits, the VOC and CO destruction efficiencies and VOC concentration as methane (ppmvd) as specified in the compliance plan for OS Summary.</p> <p>Testing every five years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.</p> <p>Testing must be conducted while operating eight(8) Zimpro units and at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under OS Summary.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under OS Summary.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	TSP $\leq$ 1.72 lb/hr maximum allowable particulate emission rate from source emission point based on 0.02 grains per SCF of stack gas flow determined by the Table at N.J.A.C. 7:27-6.2(a). [N.J.A.C. 7:27- 6.2]	None.	None.	None.
3	No visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation 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)]	Other (provide description): Upon occurrence of event : If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:  (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]
4	Opacity $\leq$ 20 % exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
5	Thermal oxidizer fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO <sub>2</sub> $\leq$ 300 lb/hr. The emission limit applies at all time including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
7	VOC (Total) $\leq$ 30 tons/yr. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	TXS $\leq$ 5.55 tons/yr. [N.J.A.C. 7:27-22.16(a)]	TXS: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	TXS: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	SO <sub>2</sub> ≤ 9.03 tons/yr. [N.J.A.C. 7:27-22.16(a)]	SO <sub>2</sub> : Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	SO <sub>2</sub> : Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
10	TSP ≤ 7.55 tons/yr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
11	PM-10 (Total) ≤ 8.58 tons/yr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
12	CO ≤ 55.2 tons/yr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
13	NO <sub>x</sub> (Total) ≤ 8.98 tons/yr. [N.J.A.C. 7:27-22.16(e)]	NO <sub>x</sub> (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
14	HAPs (Total) ≤ 7.16 tons/yr. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
15	Hydrogen chloride ≤ 1.06 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen chloride: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
16	Benzene ≤ 0.39 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
17	Chloroform ≤ 3.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Chloroform: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Chloroform: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
18	Ethylene dichloride ≤ 1.84 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Ethylene dichloride: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Ethylene dichloride: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Butadiene (1,3-) <= 0.412 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Butadiene (1,3-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Butadiene (1,3-): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
20	Acrylonitrile <= 0.04 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Acrylonitrile: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Acrylonitrile: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
21	Vinyl acetate <= 0.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Vinyl acetate: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Vinyl acetate: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
22	Tetrachloroethane (1,1,2,2-) <= 0.039 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Tetrachloroethane (1,1,2,2-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Tetrachloroethane (1,1,2,2-): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
23	VOC (Total) <= 6.86 lb/hr. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
24	TXS <= 1.27 lb/hr. [N.J.A.C. 7:27-22.16(e)]	TXS: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	TXS: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
25	TSP <= 1.72 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
26	PM-10 (Total) <= 1.96 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See stack testing requirements U16 OS Summary. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements U16 OS Summary. [N.J.A.C. 7:27-22.16(0)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	SO <sub>2</sub> ≤ 2.06 lb/hr. [N.J.A.C. 7:27-22.16(a)]	SO <sub>2</sub> : Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	SO <sub>2</sub> : Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
28	CO ≤ 12.6 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test) based on the average of three Department validated stack test runs. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
29	NO <sub>x</sub> (Total) ≤ 2.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NO <sub>x</sub> (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
30	HAPs (Total) ≤ 1.64 lb/hr. [N.J.A.C. 7:27-22.16(e)]	HAPs (Total): Monitored by calculations every 5 years (based on completion date of the last stack test) from the stack test results required by U16, OS Summary Ref. #1. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	None.
31	Hydrogen chloride ≤ 0.24 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Hydrogen chloride: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
32	Benzene ≤ 0.09 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Benzene: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	Chloroform <= 0.75 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Chloroform: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Chloroform: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
34	Ethylene dichloride <= 0.42 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Ethylene dichloride: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Ethylene dichloride: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
35	Tetrachloroethane (1,1,2,2-) <= 0.009 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Tetrachloroethane (1,1,2,2-): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Tetrachloroethane (1,1,2,2-): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
36	Butadiene (1,3-) <= 0.094 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Butadiene (1,3-): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Butadiene (1,3-): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
37	Acrylonitrile <= 0.01 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Acrylonitrile: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Acrylonitrile: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test) See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
38	Vinyl acetate <= 0.023 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Vinyl acetate: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Vinyl acetate: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
39	All emissions from this emission unit shall be exhausted through either thermal oxidizer control device. (CD7 or CD8) [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	Each of the thermal oxidizers (CD7 and CD8) shall have a minimum demonstrated efficiency for Total VOC destruction of no less than 98 percent by weight or 50 ppm as methane (by volume, on a dry basis, corrected to 7% oxygen) outlet concentration, whichever is greater. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing every 5 years (based on completion date of the last stack test). See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack test results. See U16, OS Summary. Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See U16, OS Summary. [N.J.A.C. 7:27-22.16(o)]
41	Minimum Operating Temperature at the Exit of the Combustion Section $\geq$ 1,500 degrees F for each thermal Oxidizer (CD7 and CD8). [N.J.A.C. 7:27-22.16(e)]	Minimum Operating Temperature at the Exit of the Combustion Section: Monitored by temperature instrument continuously, based on an instantaneous determination. An alarm shall sound when temperatures less than 1500 F are detected at any time during operation. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
42	CO $\leq$ 100 ppmvd uncorrected for O <sub>2</sub> concentrations in the flue gas. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously, based on any 60 minute period. The CEM shall conform to the performance specifications in 40 CFR 60, Appendix B. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by by strip chart or data acquisition (DAS) system continuously. The continuous recorder shall conform to the performance and siting specified in 40 CFR 60, Appendix B and F, as applicable. [N.J.A.C. 7:27-22.16(o)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
43	The owner or operator shall develop a QA/QC plan for all CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at <a href="http://www.state.nj.us/dep/aqpp">http://www.state.nj.us/dep/aqpp</a> . [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis. [N.J.A.C. 7:27-22.16(0)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports. [N.J.A.C. 7:27-22.16(0)].	None.
44	The operation of the Zimpro units shall be limited to nine (9) of twelve (12) units at any time. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system daily indicating which Zimpro unit is in operation. [N.J.A.C. 7:27-22.16(o)]	None.



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**Emission Unit:** U17 Lime Bin #1 and #2, each with baghouse for particulate control (CD9 and CD10)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	TSP <= 0.5 lb/hr maximum allowable particulate emission rate from source emission point based on 99% efficiency of collection or based on 0.02 grains per SCF of stack gas flow as determined in the Table at N.J.A.C. 7:27-6.2(a). [N.J.A.C. 7:27- 6.2]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall use this emission unit in a manner which will cause no visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a bound log book or by electronic data storage in readily accessible computer memories each month during operation. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name(s) of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
4	Raw materials limited to lime. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Bin capacity <= 1,000 cubic feet each. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Hours of Operation <= 4,380 hr/yr each bin. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The control devices (CD9 and CD10) shall be maintained to comply with the design and control efficiencies specified in the control device details section of the application for this operating permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Each bin shall vent to its baghouse at all times. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	The permittee shall inspect and maintain the dust collectors at least annually and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained. The dust collectors shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Each instance of dust collector maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
10	TSP $\leq$ 0.05 lb/hr. Maximum emission rate for each bin. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U19 Sludge Storage &amp; Loading Building

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
2	No visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) $\leq$ 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
4	VOC (Total) $\leq$ 1.88 tons/yr. Annual emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
5	Ammonia $\leq$ 19.7 tons/yr. Annual emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Sludge Storage & Loading Building**Operating Scenario:** OS1 Sludge loading building ventilation system

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.43 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
2	Ammonia <= 4.5 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Ammonia: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.

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**Emission Unit:** U20 Sludge Heat Treatment Boilers #1 - #4. (67.1 MMBtu/hr each) Only 3 run at once. Firing NG. Subject to NSPS Subparts A & Dc

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit using an approved protocol to demonstrate compliance with emission limits for CO and NOx as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under OS1.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under OS1.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>
2	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.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Opacity <= 10 % exclusive of visible condensed water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Particulate Emissions <= 12.7 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of each source (67.1 MMBtu/hr). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$ , where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%)/(20.9\% - \text{O2 measured})$ , where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: <a href="http://www.njdeponline.com">www.njdeponline.com</a> . Instructions for submitting this report online are specified at: <a href="http://www.nj.gov/dep/aqpp/adjustment.htm">http://www.nj.gov/dep/aqpp/adjustment.htm</a> . [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	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: Monitor and maintain 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. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted[N.J.A.C. 7:27-19.16(e)].	None.
7	NO <sub>x</sub> (Total) <= 0.05 lb/MMBTU when firing natural gas. [N.J.A.C. 7:27-19.7(i)]	None.	None.	None.
8	Boiler fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	Only three boilers shall operate at a time, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Maintain production records indicating when each boiler is operating. Each change of use.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Record the following for each boiler: 1.) Brief description, location, and stack designation of the boiler; and 2.) Date and start time, date and end time, and amount of fuel combusted. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Natural Gas Usage $\leq$ 1,382 MMft <sup>3</sup> in any consecutive 12 month period, from preconstruction permit. (total for four boilers) Based on limit of 1,410,000 MMBtu/yr (HHV) and natural gas at 1020 BTU/ft <sup>3</sup> . [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Flow / Firing Rate Instruments. Continuously.[N.J.A.C. 7:27-22.16(e)].	<p>Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total fuel use for all four boilers. Cubic feet per 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.</p> <p>This procedure will begin with the first full month following the final issuance of the Operating Permit. This accounting will not include fuel consumption during months prior to the approval of the Operating Permit. The permittee will select the time period for accounting, such as fiscal month, calendar month, or production month. Once selected, the period must not be changed without prior approval from NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	None.
11	Maximum Gross Heat Input $\leq$ 67.1 MMBTU/hr (HHV) (each boiler), from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain documentation of burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
12	The permittee shall operate, and maintain low NOx burners on each boiler. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	Operate the flue gas recirculation system when each boiler is operating. The designed minimum flue gas recirculation rate shall be 14%. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	VOC (Total) $\leq$ 1.94 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
15	NOx (Total) $\leq$ 35.26 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.

U20 Sludge Heat Treatment Boilers #1 - #4. (67.1 MMBtu/hr each) Only 3 r

OS Summary

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	CO <= 35.26 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
17	SO2 <= 0.42 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	SO2: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
18	TSP <= 3.47 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
19	PM-10 (Total) <= 3.47 tons/yr annual emission limit on all boilers from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
20	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60. (NSPS Subpart A & Subpart Dc). See GR1. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60. (NSPS Subpart A & Dc)[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60. (NSPS Subpart A & Dc)[40 CFR 60].	Comply with the requirement: As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. (NSPS Subpart A & Dc). [40 CFR 60]

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

**Emission Unit:** U20 Sludge Heat Treatment Boilers #1 - #4. (67.1 MMBtu/hr each) Only 3 run at once. Firing NG. Subject to NSPS Subparts A & Dc

**Operating Scenario:** OS1 Sludge heat treatment boiler #1 firing natural gas., OS2 Sludge heat treatment boiler #2 firing natural gas., OS3 Sludge heat treatment boiler #3 firing natural gas., OS4 Sludge heat treatment boiler #4 firing natural gas.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate from preconstruction permit. VOC (Total) <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> (VOC RACT). [N.J.A.C. 7:27-16.8(b)1]	None.	None.	None.
3	VOC (Total) <= 0.0027 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NO <sub>x</sub> (Total) <= 3.36 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	NO <sub>x</sub> (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	NO <sub>x</sub> (Total) <= 31 ppmvd @ 7% O <sub>2</sub> maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	NO <sub>x</sub> (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NO <sub>x</sub> (Total) <= 0.05 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	NO <sub>x</sub> (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 3.36 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 100 ppmvd @ 7% O2 (VOC RACT). [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-16.8(b)2]	CO: Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-16.8(b)2]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-16.8(b)2]
9	CO <= 50 ppmvd @ 7% O2 maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	CO <= 0.05 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.04 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	SO2 <= 0.0006 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	TSP <= 0.33 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	TSP <= 0.0049 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	PM-10 (Total) <= 0.33 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	PM-10 (Total) <= 0.0049 lb/MMBTU maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U20 Sludge Heat Treatment Boilers #1 - #4. (67.1 MMBtu/hr each) Only 3 r

OS1, OS2, OS3, OS4

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

**Emission Unit:** U21 Sodium Hypochlorite (NaOCl) Storage Tanks #1 through #5, 30,000 gallons each

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The content of the five tanks in this emission unit is limited to sodium hypochlorite from BOP070001. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall review, for each delivery, the MSDS and/or delivery records, vapor pressure data to ensure maximum limits are not exceeded. Once per delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The permittee shall maintain all records in either a bound logbook or in readily accessible computer memories. Supporting documentation shall include product formulation data (MSDS), delivery records, and vapor pressure data. [N.J.A.C. 7:27-22.16(o)]	None.
2	Total Throughput <= 600,000 gal/yr for each tank, from BOP070001. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.



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

**Emission Unit:** U22 Centrifuge Facility Hot Water Heaters #1 & #2 (1.6 MMBtu/hr each) Firing NG

**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 <= 1.92 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. (Two heaters to one stack, 3.2 MMBtu/hr total). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Heater fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Maximum Gross Heat Input <= 1.6 MMBTU/hr (HHV) for each heater, from preconstruction permit, is 1.6 MMBtu/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain documentation of burner rated capacity.[N.J.A.C. 7:27-22].	None.
5	NOx (Total) <= 1.4 tons/yr annual emission limit for both heaters based on total combined annual fuel use. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Natural Gas Usage <= 13.74 MMft <sup>3</sup> /yr in any consecutive 12 month period for each boiler. [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 annually. [N.J.A.C. 7:27-22.16(e)]	None.

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

**Emission Unit:** U22 Centrifuge Facility Hot Water Heaters #1 & #2 (1.6 MMBtu/hr each) Firing NG

**Operating Scenario:** OS1 Hot Water Heater #1, OS2 Hot Water Heater #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO <sub>x</sub> (Total) <= 0.16 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate. TSP < 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U23 Sludge Filter Presses

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	<p>Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A:</p> <ol style="list-style-type: none"> <li>1. The chemical name and vapor pressure of each VOC used.</li> <li>2. The percent concentration by volume of VOC in the source gas</li> <li>3. The volumetric gas flow rate</li> <li>4. The source gas range classification</li> <li>5. The maximum allowable emission rate</li> <li>6. Record the maximum actual emission rate.</li> <li>7. Maintain any calculation and test data used to determine the actual emission rate.</li> <li>8. If the source operation is used for more than one process, the dates the source operation is used.</li> </ol> <p>or</p> <p>Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Opacity <= 20 % , exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
4	VOC (Total) <= 10.95 tons/yr annual emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	HAPs (Total) <= 0.55 tons/yr. [N.J.A.C. 7:27-22.16(e)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(e)]	None.
6	Acetaldehyde <= 0.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Acetaldehyde: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	Acetaldehyde: Recordkeeping by manual logging of parameter or storing data in a computer data system annually in a bound logbook or readily accessible computer files. [N.J.A.C. 7:27-22.16(e)]	None.
7	Formaldehyde <= 0.25 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(e)]	Formaldehyde: Recordkeeping by manual logging of parameter or storing data in a computer data system annually in a bound logbook or readily accessible computer files. [N.J.A.C. 7:27-22.16(e)]	None.
8	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U23 Sludge Filter Presses

Operating Scenario: OS1 Sludge Filter Press Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
2	HAPs (Total) <= 0.125 lb/hr maximum emission rate from preconstruction permit. (This includes 0.125 lb/hr Aldehydes, estimated at 0.056 lb/hr formaldehyde plus 0.069 lb/hr as acetaldehyde.). [N.J.A.C. 7:27-22.16(e)]	HAPs (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
3	Acetaldehyde <= 0.069 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Acetaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acetaldehyde: Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
4	Formaldehyde <= 0.056 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by manual logging of parameter initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.

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

**Emission Unit:** U24 Vehicle Paint Spray Booth with 1.7 MMBtu/hr air heater (CD6)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.74 lb/hr maximum allowable particulate emission rate based on 0.02 grains per SCF. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % exclusive of condensed water vapor, for a period longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	Hours of Operation <= 500 hr/yr , from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor per application and maintain production records. Daily. [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 quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year in a bound logbook or readily accessible computer file. Sum the quarterly totals annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	The permittee shall inspect and maintain the mat filters (CD6) and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained, or daily, whichever is sooner. The mat filters shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Each instance of dust collector maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC (Total) <= 1.5 tons/yr from operating permit application. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation. Annual emissions will be calculated from the pound per gallon VOC content times gallons of coating(s) used for the period. The VOC year-to-date total will be computed monthly and reviewed each month to ensure the annual total will not be exceeded. [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Nitrogen oxides (NOx) <= 0.0405 tons/yr from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 0.034 tons/yr from operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

**Emission Unit:** U24 Vehicle Paint Spray Booth with 1.7 MMBtu/hr air heater (CD6)

**Operating Scenario:** OS1 Vehicle Spray Painting

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply with the applicable standards for the emissions of VOC as required in N.J.A.C. 7:27-16.12. [N.J.A.C. 7:27-16.12]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements for other source operations as required in N.J.A.C. 7:27-16.12[N.J.A.C. 7:27-16.12].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements for other source operations as required in N.J.A.C. 7:27-16.12.[N.J.A.C. 7:27-16.12].	None.
2	VOC Content of Any Surface Coating Formulation as Applied <= 6.5 lb/gal for automotive pretreatment , automotive primer-surfacer <= 4.8 lbs/gal , automotive primer-sealer <=4.6 lbs/gal, Single stage-topcoat or 2 stage basecoat/clearcoat <= 5.0 lbs/gal , 3 or 4 stage basecoat/clearcoat topcoat <= 5.2 lbs/gal. [N.J.A.C. 7:27-16.12(c)]	VOC Content of Any Surface Coating Formulation as Applied: Monitored by calculations per change of material. The permittee shall document that each coating is VOC compliant using the equation stated in N.J.A.C. 7:27-16.12 (d). [N.J.A.C. 7:27-22.16(o)]	VOC Content of Any Surface Coating Formulation as Applied: Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each surface coating formulation, and the volume of each surface coating formulation applied. The calculations to determine compliance shall be maintained. [N.J.A.C. 7:27-22.16(o)]	None.
3	VOC (Total) <= 6 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate. TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U24 Vehicle Paint Spray Booth with 1.7 MMBtu/hr air heater (CD6)**Operating Scenario:** OS2 Air Replacement Unit (1.7 MMBtu/hr, NG) indirect fired

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Gross Heat Input <= 1.7 MMBTU/hr (HHV) from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Maintain documentation of burner rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
2	Fuel type limited to natural gas only. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	NOx (Total) < 0.162 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.136 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP < 0.05 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U26 Influent Fine Screens (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Annual emission limit, from BOP090001. VOC (Total) <= 0.028 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [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
3	VOC (Total) <= 0.062 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

Emission Unit: U27 Grit Channels (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.35 tons/yr Annual emission limit, from BOP090001. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.08 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

Emission Unit: U28 Influent Screw Pumps (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Annual emission limit, from BOP090001. VOC (Total) <= 6.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 1.38 lb/hr maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Annual emission limit, from BOP140004. HAPs (Total) <= 1.8 tons/yr. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
5	Annual emission limit, from BOP090001. Chloroform <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Chloroform: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Chloroform: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual emission limit from BOP090001. Dichlorobenzene (1,4-) <= 0.97 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Dichlorobenzene (1,4-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Dichlorobenzene (1,4-): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	Annual emission limit from BOP090001. Styrene <= 0.32 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Styrene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Styrene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	Annual emission limit, from BOP090001. 2-Methylnaphthalene<=0.0012tons/year. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
9	Annual emission limit from BOP090001. Dichlorobenzene(1,2-) <=0.28 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
10	Annual emission limit from BOP090001. Dichlorobenzene(1,3-) <=1.4 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
11	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



BOP210002

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

Emission Unit: U34 Primary Clarifiers (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 2.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 2.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Annual emission limit, from BOP090001. VOC (Total) <= 10.1 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	Annual emission limit, from BOP140004. HAPs (Total) <= 5.49 tons/yr. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
5	Annual emission limit, from BOP090001. Chloroform <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Chloroform: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Chloroform: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual emission limit, from BOP090001. Xylene <= 2.84 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Xylene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Xylene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	Annual emission limit from BOP090001. Tetrachloroethane (1,1,2,2-) <= 0.037 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Tetrachloroethane (1,1,2,2-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Tetrachloroethane (1,1,2,2-): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	Annual emission limit from BOP090001.. Styrene <= 0.56 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Styrene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Styrene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
9	Annual emission limit from BOP090001. 2-Methyl Naphthalene<=0.015 tons/ year [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
10	Annual emission limit from BOP090001 for operating permit. Dichlorobenzene (1,4-) <= 1.55 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Dichlorobenzene (1,4-): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Dichlorobenzene (1,4-): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
11	Annual emission limit from BOP090001. Dichlorobenzene (1,2-) <=0.71 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
12	Annual emission limit from BOP090001. Dichlorobenzene (1,3-)<=1.7 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [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
13	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

Emission Unit: U46 Oxygenation Tanks (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	Annual emission limit, from BOP090001. VOC (Total) <= 0.51 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 0.12 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

Emission Unit: U47 Final Clarifiers (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.53 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Annual emission limit, from BOP090001. VOC (Total) <= 2.3 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	Annual emission limit, from BOP140004. HAPs (Total) <= 0.6 tons/yr. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
5	Annual emission limit, from BOP090001. Chloroform <= 0.11 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Chloroform: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Chloroform: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	Annual emission limit, from BOP090001. Styrene <= 0.49 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Styrene: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Styrene: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22]	None.
7	Any HAP not listed with an annual emission limit within the requirements shall not be emitted from any source at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix, Table B. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

**Emission Unit:** U48 Return Sludge Screw Pump Facilities (Grandfathered)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.075 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Annual emission limit, from application for operating permit. VOC (Total) <= 0.33 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210002

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

Emission Unit: U49 Gravity Thickeners (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.08 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

BOP210002

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Annual emission limit, from application for operating permit. VOC (Total) <= 0.35 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

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**Facility Specific Requirements**

Emission Unit: U50 Chlorination Facilities (Grandfathered)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
2	VOC (Total) <= 0.05 lb/hr. [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
3	Annual emission limit, from application for operating permit. VOC (Total) <= 0.00013 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [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 annually. [N.J.A.C. 7:27-22.16(o)]	None.

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

**Emission Unit:** U54 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Destruction and Removal Efficiency $\geq$ 95 % by weight for Hydrogen sulfide (H <sub>2</sub> S) for each control device (CD11 and CD12). [N.J.A.C. 7:27-22.16(e)]	None.	Destruction and Removal Efficiency: Recordkeeping by stack test results once initially Keep stack test results on site. [N.J.A.C. 7:27-22.16(o)]	None.
2	No visible emissions exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Upon occurrence of event : If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes:  (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Compounds other than SO <sub>2</sub> , SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> ≤ 5 lb/hr from PT62 and PT63 in any 60 minute period. [N.J.A.C. 7:27-7.2(i)]	None.	None.	None.
4	Sulfur Compounds other than SO <sub>2</sub> , SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> ≤ 3 lb/hr from PT64 and PT65 in any 60 minute period. [N.J.A.C. 7:27-7.2(i)]	None.	None.	None.
5	Hydrogen sulfide ≤ 0.09 lb/hr Maximum emission rate for the emission unit when venting through CD13 or CD13 & CD15 or CD 14 or CD14 & CD15 (OS11 through OS20 and OS33 through OS46) combined for all scenarios. All other operating scenarios are diminimis. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
6	Hydrogen sulfide ≤ 0.38 tons/yr. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	VOC (Total) ≤ 3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: The owner or operator shall conduct an analysis of the source operation which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section.[N.J.A.C. 7:27-16.16(g)1ii].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under worst case operating conditions. The permittee shall maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA.[N.J.A.C.7:27-16.22(a)] and[N.J.A.C. 7:27-16.16(g)1ii].	None.
8	VOC (Total) ≤ 0.05 lb/hr maximum emission rate for each operating scenario. [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 initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.

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**Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	All emissions from the wet wells and thickening centrifuges in this emission unit shall be exhausted through a control device, either one of the packed tower scrubber (CD11 or CD12) or one of the chemical scrubber (CD13 or CD14) except during scrubber switching. A Bioscrubber (CD15) is permitted for use at the facility's discretion, as an optional control device for reducing pollutant load to either CD13 or CD 14. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Hours of Operation <= 4 hr/yr total cumulative time for scrubber switching events for CD11, CD12, CD13, and CD14. Each scrubber switching event shall not exceed ten minutes. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event recording for the duration of each scrubber switching event. [N.J.A.C. 7:27-22.16(o)]	None.
11	Scrubbing Medium Flow Rate >= 50 and Scrubbing Medium Flow Rate <= 150 gal/min for CD11 and CD12. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the flow rate medium of the scrubber drops below 50 gal/min or exceeds 150 gal/min, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
12	pH of the Scrubbing Solution at the Inlet of the Scrubber >= 9 and pH of the Scrubbing Solution at the Inlet of the Scrubber <= 12 standard units for CD11 and CD12. [N.J.A.C. 7:27-22.16(a)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Monitored by pH instrument continuously. [N.J.A.C. 7:27-22.16(o)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the pH of the scrubbing solution at the inlet of the scrubber is less than 9 standard units and greater than 12 standard units, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.



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**Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Oxidation Reduction Potential $\geq$ 300 millivolts for CD11 and CD12. [N.J.A.C. 7:27-22.16(a)]	Oxidation Reduction Potential: Monitored by oxidation/reduction potential meter continuously. [N.J.A.C. 7:27-22.16(o)]	Oxidation Reduction Potential: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the oxidation reduction potentiation drops below 300 millivolts, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
14	Scrubbing Medium Flow Rate $\geq$ 300 gal/min for CD13 and CD14. [N.J.A.C. 7:27-22.16(a)]	Scrubbing Medium Flow Rate: Monitored by scrubber flow rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Scrubbing Medium Flow Rate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the scrubbing medium flow rate drops below 300 gal/min, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
15	pH of the Scrubbing Solution at the Inlet of the Scrubber $\geq$ 10 standard units for CD13 and CD14. [N.J.A.C. 7:27-22.16(a)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Monitored by pH instrument continuously. [N.J.A.C. 7:27-22.16(o)]	pH of the Scrubbing Solution at the Inlet of the Scrubber: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the pH of the scrubbing solution at the inlet of the scrubber drops below 10 standard units, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
16	Oxidation Reduction Potential $\geq$ 550 millivolts for CD13 and CD14. [N.J.A.C. 7:27-22.16(a)]	Oxidation Reduction Potential: Monitored by oxidation/reduction potential meter continuously. [N.J.A.C. 7:27-22.16(o)]	Oxidation Reduction Potential: Recordkeeping by strip chart or data acquisition (DAS) system continuously. In the event that the oxidation reduction potentiation drops below 500 millivolts, the permittee may comply with this requirement by calculating a 15-minute block average. [N.J.A.C. 7:27-22.16(o)]	None.
17	Maximum Sludge Feed Rate $\leq$ 1,200 dry tons/day. [N.J.A.C. 7:27-22.16(e)]	Maximum Sludge Feed Rate: Monitored by sludge feed/charge rate monitoring daily. An average solids content must be determined monthly. [N.J.A.C. 7:27-22.16(o)]	Maximum Sludge Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The sewerage sludge processing area, including but not limited to the centrifuges, shall be completely enclosed and sealed. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

**Emission Unit:** U101 Sludge Pumping Station and Sludge Storage Tanks #1, #2, #5, #6

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate from source emission point based on 0.02 grains per SCF of stack gas flow as determined in the Table at N.J.A.C. 7:27-6.2(a). [N.J.A.C. 7:27- 6.2]	None.	None.	None.
2	Opacity <= 20 % exclusive of visible condensed water vapor, except a three minute period in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	The equipment in this emission unit is subject to the sulfur compound emission standards of N.J.A.C. 7:27-7. [N.J.A.C. 7:27- 7]	Other: Monitor by calculations every five years. Comply, as applicable, with all monitoring requirements of N.J.A.C. 7:27-7.[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. Maintain calculations records. [N.J.A.C. 7:27-22.16(o)]	None.
4	Permittee's annual throughput limit, for each tank, from preconstruction permit: 365 million gallons per any 12 month period. [N.J.A.C. 7:27-22.16(e)]	Monitored by sludge feed/charge rate monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis) . [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Monthly and rolling 12-month throughputs. [N.J.A.C. 7:27-22.16(e)]	None.
5	Total Material Transferred <= 75 MMgal/yr of landfill leachate from BOP150006. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
6	If the source of the landfill leachate changes, the Permittee shall have a waste water analysis performed on the new source. If the results of the analysis indicate a potential increase in emissions over the permitted rates, the lab results and a modification application shall be submitted to the Department. [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
7	Hydrogen sulfide <= 0.104 tons/yr. From BOP080004. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by calculations annually, based on an instantaneous determination. The permittee shall use the periodic emissions (flux chamber, or as approved monitoring) to calculate the annual Hydrogen Sulfide emissions from the storage tanks. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
8	Hydrogen sulfide <= 0.026 lb/hr during the months of May through September (E101 SludgeStorage Tank #5). From BOP080004. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by periodic emissions monitoring (flux chamber, or as approved) at the approved frequency, based on the averaging period as per Department approved test method. The approved monitoring frequency shall be once during each of the following months: May, June, July, and August. Testing shall be conducted at existing operational conditions that in the judgement of the facility are the worst case for odor generation, during the day time. The permittee shall calculate the mass emission rate based on the worst case concentration, the sweep gas rate applied during the test, and the surface area of the tank or with an equivalent method approved by the Bureau of Technical Services. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Hydrogen sulfide $\leq$ 0.022 lb/hr during the months of October through April.(E101 SludgeStorage Tank #5). From BOP080004. [N.J.A.C. 7:27-22.16(a)]	Hydrogen sulfide: Monitored by periodic emission monitoring at the approved frequency, based on the averaging period as per Department approved test method. The approved monitoring frequency shall be once during each of the months of September through April. Testing shall be conducted at existing operational conditions that in the judgement of the facilityare the worst case for odor generation, during the day time.  The permittee shall calculate the mass emission rate based on the worst case concentration, the sweep gas rate applied during the test, and the surface area of the tank or with an equivalent method approved by the Bureau of Technical Services. [N.J.A.C. 7:27-22.16(o)]	Hydrogen sulfide: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. [N.J.A.C. 7:27-22.16(o)]	None.
10	VOC (Total) $\leq$ 0.051 tons/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(d)2]	VOC (Total): Recordkeeping by manual logging of parameter annually. [N.J.A.C. 7:27- 8]	None.
11	HAPs (Total) $\leq$ 0.051 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Phenol $\leq$ 0.051 tons/yr from BOP150006. [N.J.A.C. 7:27-22.16(a)]	Phenol: Monitored by calculations annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Phenol: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
13	Phenol $\leq$ 0.0116 lb/hr from BOP150006. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	The Permittee shall be limited to receiving digested municipal sewerage sludges at a maximum content of 8 % solids or landfill leachate from BOP150006.. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall determine compliance with this condition using a sludge analysis from a laboratory confirming the percent (%) Solids.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter per delivery. The permittee shall record the amount of sludge received for each shipment. The permittee shall maintain the sludge analysis for each shipment onsite for review upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Any operation of equipment which may cause off-property effects, including odors, shall be immediately reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26:2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26:2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26:2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26:2C-19(e)]
16	The permittee shall not suffer, allow, or permit any air contaminant detectable by the sense of smell to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. In determining whether an odor unreasonably interferes with the enjoyment of life or property, the Department shall consider all of the relevant facts and circumstances, including, but not limited to, the character, severity, frequency and duration of the odor, and the number of persons affected thereby. In considering these and other relevant facts and circumstances, no one factor shall be dispositive, but each shall be considered relevant in determining whether an odor interferes with the enjoyment of life and property and, if so, whether such interference is unreasonable considering all of the circumstances. [N.J.A.C. 7:27-22.16(a)]	Other: Observation of plant operations.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain a copy of all information submitted to the Department.[N.J.A.C. 7:27-22.16(o)].	Notify by phone: Upon occurrence of event. The permittee shall report any operation of the equipment which may cause a release of air contaminants in a quantity which poses a potential threat to public health, welfare, or the environment or which might reasonably result in citizen complaints. The permittee shall immediately notify the Department of any non-compliance by calling the Environmental Action Hotline at (877)927-6337. [N.J.S.A. 26:2C-19(e)]

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Facility Specific Requirements**

Emission Unit: U102 Emergency Diesel Generators

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	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.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
4	Generator fuel limited to # 2 fuel oil or diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:</p> <p>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.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ol style="list-style-type: none"> <li>The reason for its operation;</li> <li>The date(s) of operation and the start up and shut down time;</li> <li>The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>The name of the operator; and</li> </ol> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and [N.J.A.C. 7:27-19.11]</p>	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source.</p> <p>[N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	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.
8	VOC (Total) <= 0.216 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 0.829 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.7794 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	SO2 <= 0.0011 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.0345 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	PM-10 (Total) <= 0.0345 tons/yr. Annual emission limit for all four generators combined based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Sulfur Content in Fuel <= 0.0015 % by weight. Maximum allowable sulfur content in No. 2 fuel oil, diesel fuel or kerosene shall be no more than 15 ppm (0.0015% by wt.). [N.J.A.C. 7:27-22.16(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 sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
15	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866 (NSPS Subpart A). [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
16	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP (NSPS Subpart A). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
17	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere (NSPS Subpart A). [40 CFR 60.12]	None.	None.	None.

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
18	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)]
19	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.

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

Emission Unit: U102 Emergency Diesel Generators

Operating Scenario: OS1 EG CAT600

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 3.6 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 5.98 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.77 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 8.51 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 4.61 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.009 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.27 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.27 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
11	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
13	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
14	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 $\geq 37$ kW (HP $\geq 50$ ) and no greater than 3,000HP ( $\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO <sub>x</sub> $\leq 6.4$ g/kW-hr, CO $\leq 3.5$ g/kW-hr, PM $\leq 0.2$ g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.



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

Emission Unit: U102 Emergency Diesel Generators

Operating Scenario: OS2 EG CATXQ350

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 2.1 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 3.51 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 1.34 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 4.14 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 3.62 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.21 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
11	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
13	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
14	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 $\geq 37$ kW (HP $\geq 50$ ) and no greater than 3,000HP ( $\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO <sub>x</sub> $\leq 6.4$ g/kW-hr, CO $\leq 3.5$ g/kW-hr, PM $\leq 0.2$ g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.

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

Emission Unit: U102 Emergency Diesel Generators

Operating Scenario: OS3 EG CATXQ200

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.32 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 <= 2.2 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.57 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 1.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.005 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
10	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
12	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
13	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 $\geq 37$ kW (HP $\geq 50$ ) and no greater than 3,000HP ( $\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO <sub>x</sub> $\leq 4$ g/kW-hr, CO $\leq 3.5$ g/kW-hr, PM $\leq 0.2$ g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
14	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.



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

Emission Unit: U102 Emergency Diesel Generators

Operating Scenario: OS4 EG MMG130

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.84 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input <= 1.04 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain documentation of engine rated capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	VOC (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.57 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 1.68 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.002 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
11	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
13	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
14	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 $\geq 37$ kW (HP $\geq 50$ ) and no greater than 3,000HP ( $\leq 2,237$ kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NO <sub>x</sub> $\leq 4$ g/kW-hr, CO $\leq 5$ g/kW-hr, PM $\leq 0.3$ g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.

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

**Emission Unit:** U301 Three Natural Gas Turbines**Subject Item:** CD31 Selective Catalytic Reduction for Turbine 1, CD32 Selective Catalytic Reduction for Turbine 2, CD33 Selective Catalytic Reduction for Turbine 3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx Control Efficiency $\geq 71\%$ . The selective catalytic reduction shall be designed to operate at minimum NOx control efficiency. [N.J.A.C. 7:27-22.16(a)]	NOx Control Efficiency: Monitored by stack emission testing once initially, based on the average of three 1-hour tests. [N.J.A.C. 7:27-22.16(a)]	NOx Control Efficiency: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit [N.J.A.C. 7:27-22.16(a)]
2	Ammonia Flow Rate to SCR $\geq 0.03$ and Ammonia Flow Rate to SCR $\leq 0.08$ gal/min. Allowable range for the reagent injection rate.  Reagent is limited to a 19% ammonium hydroxide solution.  The SCR shall be operated at all times that the turbine is operating. Reagent shall be injected at all times that the turbine is operating, as per the manufacturer's specifications. [N.J.A.C. 7:27-22.16(a)]	Ammonia Flow Rate to SCR: Monitored by material feed/flow monitoring continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when flow rates outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Ammonia Flow Rate to SCR: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
3	Temperature at Catalyst Bed $\geq 825$ and Temperature at Catalyst Bed $\leq 855$ degrees F. [N.J.A.C. 7:27-22.16(a)]	Temperature at Catalyst Bed: Monitored by temperature instrument continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when temperatures outside the permitted operating range are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Catalyst Bed: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The catalyst array(s) for the SCR shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	<p>Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment.</p> <p>A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum:</p> <ol style="list-style-type: none"> <li>1. The date the maintenance was performed;</li> <li>2. The name, title and affiliation of the person who performed the maintenance;</li> <li>3. The reason for maintenance;</li> <li>4. A description of the maintenance activity; and</li> <li>5. Any relevant parameters associated with the determination maintenance was required and/or completed successfully.[N.J.A.C. 7:27-22.16(o)].</li> </ol>	None.

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

Emission Unit: U301 Three Natural Gas Turbines

Subject Item: CD34 Oxidation Catalyst for Turbine 1, CD35 Oxidation Catalyst for Turbine 2, CD36 Oxidation Catalyst for Turbine 3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Minimum VOC Destruction and Removal Efficiency $\geq 60\%$ . The catalytic oxidizer shall be designed to operate at minimum VOC destruction and removal efficiency. [N.J.A.C. 7:27-22.16(a)]	Minimum VOC Destruction and Removal Efficiency: Monitored by stack emission testing once initially, based on the average of three 1-hour tests. [N.J.A.C. 7:27-22.16(a)]	Minimum VOC Destruction and Removal Efficiency: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit [N.J.A.C. 7:27-22.16(a)]
2	Destruction and Removal Efficiency $\geq 65\%$ . The catalytic oxidizer shall be designed to operate at minimum CO destruction and removal efficiency. [N.J.A.C. 7:27-22.16(a)]	Destruction and Removal Efficiency: Monitored by stack emission testing once initially, based on the average of three 1-hour tests. [N.J.A.C. 7:27-22.16(a)]	Destruction and Removal Efficiency: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to stack testing requirements specified in this permit [N.J.A.C. 7:27-22.16(a)]
3	Operating Temperature $\geq 600$ and Operating Temperature $\leq 1,200$ degrees F. The catalytic oxidizer shall operate at no less than the minimum operating temperature at the inlet and outlet to the catalyst bed and no more than the maximum operating temperature at the inlet and outlet to the catalyst bed. [N.J.A.C. 7:27-22.16(a)]	Operating Temperature: Monitored by temperature instrument continuously. An alarm or other operational warning system shall be installed, properly shielded from direct contact with the flame and shall be designed to sound when temperatures outside the range of the permitted operating temperature are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Operating Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Pressure Drop $\geq 0.065$ and Pressure Drop $\leq 0.108$ psi. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. An alarm or other operational warning system shall be installed and shall be designed to sound when pressure drop outside the permitted operating range is detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
5	Minimum Residence Time $\geq 0.03$ seconds. The oxidation catalyst shall be designed and operated at no less than the minimum residence time. [N.J.A.C. 7:27-22.16(a)]	Minimum Residence Time: Monitored by documentation of construction once initially. [N.J.A.C. 7:27-22.16(o)]	Minimum Residence Time: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Keep records of the documentation of construction, showing the residence time, for the life of the control device. [N.J.A.C. 7:27-22.16(o)]	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The catalyst array(s) for the oxidation catalyst shall be maintained and replaced in accordance with the recommendations of the manufacturer, and as necessary based on emission levels indicated during the periodic emission monitoring. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by complying with the manufacturer's recommended maintenance procedures.[N.J.A.C. 7:27-22.16(o)].	<p>Other: Recordkeeping by keeping the manufacturer's design specification and recommended maintenance procedures on site for the life of the equipment.</p> <p>A record of maintenance performed must be manually logged or stored in a computer data system upon occurrence of event and must be made readily available during inspection by the Department. The record must contain the following information at a minimum:</p> <ol style="list-style-type: none"> <li>1. The date the maintenance was performed;</li> <li>2. The name, title and affiliation of the person who performed the maintenance;</li> <li>3. The reason for maintenance;</li> <li>4. A description of the maintenance activity; and</li> <li>5. Any relevant parameters associated with the determination maintenance was required and/or completed successfully.[N.J.A.C. 7:27-22.16(o)].</li> </ol>	None.

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

Emission Unit: U301 Three Natural Gas Turbines

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart KKKK [40 CFR Federal Rules Summary]	None.	None.	None.
2	<p><b>STACK TESTING SUMMARY</b></p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for VOC, NO<sub>x</sub>, CO, TSP, PM-10, PM-2.5 and ammonia as specified in the compliance plan for OS Summary, OS1, OS5, OS9, OS13, OS14, and OS15, and for VOC and CO Destruction and Removal Efficiencies as specified in the compliance plan for CD34, CD35, and CD36 and NO<sub>x</sub> Control Efficiencies as specified in the compliance plan for CD31, CD32, and CD33. The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.</p> <p>Pursuant to N.J.A.C. 7:27-16.23(c) and 19.15(c), the initial stack test to demonstrate compliance with VOC/NO<sub>x</sub> RACT standards shall be conducted within 180 days from the date on which source operation commences operation.</p> <p>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].</p>	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="https://www.epa.gov/electronic-reporting-air">https://www.epa.gov/electronic-reporting-air</a> Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p><b>STACK TESTING SUMMARY</b></p> <p>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for NO<sub>x</sub> and CO as specified in the compliance plan for OS Summary, OS1, OS5, OS9, OS13, OS14, and OS15.</p> <p>The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NO<sub>x</sub> and/or CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="https://www.epa.gov/electronic-reporting-air">https://www.epa.gov/electronic-reporting-air</a> Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and . [N.J.A.C. 7:27-22.18(h)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p><b>PERIODIC STACK TESTING SUMMARY</b></p> <p>The permittee shall conduct a periodic stack test required by 40 CFR 60 Subpart KKKK using a protocol approved by the Department to demonstrate compliance with emission limits for NO<sub>x</sub> as specified in the compliance plan for OS Summary. The permittee shall provide EMS with the turbine load performance curve with the protocol.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: <a href="https://www.epa.gov/electronic-reporting-air">https://www.epa.gov/electronic-reporting-air</a> unless another format is approved by EMS. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
5	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
6	Opacity <= 10 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Particulate Emissions <= 31.5 lb/hr. Particulate emission limit for each turbine from the combustion of fuel based on rated heat input of the source. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
8	Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 250 ppmvd @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-16.9(b)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three 1-hour tests each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]
10	VOC (Total) <= 50 ppmvd @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-16.9(c)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three 1-hour tests each performed over a consecutive 60-minute period specified by the Department and performed in compliance with N.J.A.C. 7:27-16.22. [N.J.A.C. 7:27-16.23(a)2]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<p>The owner or operator of a stationary combustion turbine that has a maximum gross heat input rate of 25 million BTU per hour or more and associated duct burner (if a duct burner is installed) shall ensure that the adjustment of the combustion process is carried out according to the manufacturer's recommended procedures and maintenance schedules as set forth at N.J.A.C. 7:27-19.16(g). [N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-16.9(f)] and [N.J.A.C. 7:27-19.5(e)]</p>	<p>Other: Monitored by continuous emission monitoring (CEMS) or by periodic emission monitoring upon performing combustion adjustment. If not using a certified CEMS, monitoring shall be performed in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005. [N.J.A.C. 7:27-19.16(g)].</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage upon performing combustion adjustment or by manual logging of parameter or storing data in a computer data system. The permittee shall record the following information for each adjustment in a log book or computer data system: 1. The date and times the adjustment began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. The records shall be kept for a minimum of 5 years and be readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(h)]</p>	None.
12	<p>NO<sub>x</sub> (Total) ≤ 2.2 lb/MW-hr.  The owner or operator of a stationary combustion turbine shall, on and after May 20, 2009, if the stationary combustion turbine is a non-HEDD unit, cause it to emit NO<sub>x</sub> at a rate no greater than the applicable maximum allowable NO<sub>x</sub> emission rate specified in Table 6. [N.J.A.C. 7:27-19.5(d)]</p>	<p>NO<sub>x</sub> (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three 1-hour tests each performed over a consecutive 60-minute period specified by the Department, and performed in compliance with N.J.A.C. 7:27-19.17. Any NO<sub>x</sub> testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NO<sub>x</sub> emission limits in this subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit. [N.J.A.C. 7:27-19.15(a)2]</p>	<p>NO<sub>x</sub> (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). The owner or operator of the tested equipment or source operation shall record any test data collected under this section, and maintain it for at least five years after the date on which the testing was conducted. [N.J.A.C. 7:27-19.17(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>NOx (Total) &lt;= 1 lb/MW-hr.</p> <p>On and after May 1, 2015, the owner or operator of a stationary combustion turbine that is a HEDD unit or a stationary combustion turbine that is capable of generating 15 MW or more and that commenced operation on or after May 1, 2005 shall Cause it to emit NOx at a rate no greater than the applicable maximum allowable NOx emission rate specified in Table 7. [N.J.A.C. 7:27-19.5(g)]</p>	<p>NOx (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three 1-hour tests each performed over a consecutive 60-minute period specified by the Department, and performed in compliance with N.J.A.C. 7:27-19.17. Any NOx testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NOx emission limits in this subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit. [N.J.A.C. 7:27-19.15(a)2]</p>	<p>NOx (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). The owner or operator of the tested equipment or source operation shall record any test data collected under this section, and maintain it for at least five years after the date on which the testing was conducted. [N.J.A.C. 7:27-19.17(e)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>Each turbine shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This turbine shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. During storm preparation, as defined in this permit, or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the turbine's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation for storm preparation; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Cubic feet per month) = (Hours of operation per month) x (Maximum turbine fuel usage rate in cubic feet per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the turbine's hour meter) - (The monthly total operating time for testing and maintenance) - (The monthly total operating time for storm preparation). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the turbine's hour meter, the fuel usage (cubic feet per month), and the monthly hours of operation for emergency use. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the turbine is specifically operated for testing or maintenance or storm preparation:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance or storm preparation; and</li> <li>iv. The name of the operator; and</li> </ul> <p>3. If a voltage reduction is the reason for the use of the turbine, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)]</p>	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	<p>This turbine shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="https://dep.nj.gov/boss/air-quality-forecast-fc">https://dep.nj.gov/boss/air-quality-forecast-fc</a> and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency. If the primary energy or power source is under the control of the owner or operator of the turbine, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-22.16(o)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Total Hours of Operation <= 1,248 hours per any 12 consecutive month period. Maximum combined annual hours of operation for the three turbines based on the maximum allowable hours of operation for Storm Preparation and Testing and Maintenance. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Monitored by hour/time monitor continuously . [N.J.A.C. 7:27-22.16(o)]	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Each month during operation, the owner or operator shall record the hours of operation for any 12 consecutive months. The hours of operation per any 12 consecutive months shall be calculated by the sum of the hours of operation calculated during the current month added to the sum of the hours of operation calculated during the preceding 11 months. The following information shall also be recorded:  1. The date of the calculation; and  2. The date range of the current month and the 12 consecutive month period. [N.J.A.C. 7:27-22.16(o)]	None.
17	Maximum Gross Heat Input <= 315 MMBTU/hr (HHV) each. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
18	The three gas-fired combustion turbine generators (CTGs) shall be configured in an N+1 arrangement, such that only two CTGs will operate at a time with the other as a backup unit. [N.J.A.C. 7:27-22.16(o)]	Monitored by documentation of construction once initially. Documentation of construction should show that only two CTGs are capable of operating at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain documentation of construction showing only two CTGs can be operated at a time for the life of the equipment. [N.J.A.C. 7:27-22.16(o)]	None.
19	VOC (Total) <= 1.22 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [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 each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	NOx (Total) <= 1.9 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
21	CO <= 3.63 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
22	SO2 <= 0.668 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	TSP <= 2.75 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
24	PM-10 (Total) <= 2.75 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
25	PM-2.5 (Total) <= 2.75 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	HAPs (Total) $\leq$ 0.14 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
27	Acrolein $\leq$ 0.00138 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	Acrolein: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Acrolein: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
28	Formaldehyde $\leq$ 0.138 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Ammonia $\leq$ 1.31 tons/yr. Annual combined emission limit for all three turbines per any 12 consecutive months based on hourly emission rates and hours of operation for testing and maintenance and storm preparation. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the emissions for any 12 consecutive months. The emissions per any 12 consecutive months shall be calculated by the sum of the emissions calculated during the current month added to the sum of the emissions calculated during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
30	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
31	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
32	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]

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33	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]
34	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
36	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
37	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.



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38	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
39	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.
40	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.
41	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. (NSPS Subpart A) [40 CFR 60.11(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
43	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.
44	All continuous emission monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests specified under 40 CFR Part 60.8. The owner or operator shall follow manufacturer's written recommendations for installation, operation and calibration of the device. (NSPS Subpart A) [40 CFR 60.13(b)]	During any performance test required under 40 CFR Part 60.8 or within 30 days thereafter, the owner or operator shall conduct a performance evaluation of the continuous emission monitoring system in accordance with applicable performance specification in Appendix B of 40 CFR Part 60. Monitored by other method (provide description) upon occurrence of event. [40 CFR 60.13(c)]	None.	Within 60 days of completion of the performance test, furnish the Administrator two or, upon request, more copies of the results of the performance evaluation. Submit a report: As per the approved schedule. [40 CFR 60.13(c)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR Part 60 shall be used. (NSPS Subpart A) [40 CFR 60.13(f)]	None.	None.	None.
46	All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in the applicable subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subpart to specify the emission limit. (NSPS Subpart A) [40 CFR 60.13(h)(3)]	None.	None.	None.
47	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.
48	To demonstrate continuous compliance with NO <sub>x</sub> limit, the owner or operator of the turbine that does not use water or steam injection shall perform annual performance NO <sub>x</sub> tests in accordance with 40 CFR 60.4400. If the NO <sub>x</sub> test result is less than or equal to 75% of the NO <sub>x</sub> emission limit the frequency of subsequent testing may be reduced to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of the NO <sub>x</sub> limit, an annual performance testing must be resumed. (NSPS Subpart KKKK) [40 CFR 60.4340(a)]	Monitored by stack emission testing annually, based on the average of three Department validated stack test runs. Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400 . [40 CFR 60.4400]	Recordkeeping by stack test results annually. [40 CFR 60.4400]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
49	NOx (Total) <= 25 ppmvd @ 15% O2. This limit applies to a turbine that has heat input at peak load greater than 50 MMBtu/hr (HHV) but less or equal to 850 MMBtu/hr (HHV) firing natural gas and which commenced construction after February 18, 2005. (NSPS Subpart KKKK). [40 CFR 60.4320(a)]	NOx (Total): Monitored by stack emission testing at the approved frequency, based on the average of three Department validated stack test runs. The owner or operator shall conduct an initial performance test as required in 40 CFR 60.8. The subsequent testing shall only be conducted if choosing to comply with 40 CFR 60.4340(a). Test methods and procedures shall be consistent with the requirements of 40 CFR 60.4400 or, if a NOx diluent CEMS is installed, consistent with 40 CFR 60.4405. The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. Alternatively, the testing might be performed at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. For turbines with supplemental duct burner NOx measurements shall be taken after the duct burner, which has to be in operation during the performance test. [40 CFR 60.4400]	NOx (Total): Recordkeeping by stack test results at the approved frequency. [40 CFR 60.4400]	Submit a report: As per the approved schedule. The owner or operator shall submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR 60.4375(b)]
50	SO2 <= 0.06 lb/MMBTU. No owner or operator shall burn any fuel which contains total potential sulfur emissions in excess of specified limit. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement. (NSPS Subpart KKKK). [40 CFR 60.4330(a)(2)]	Other: The permittee shall demonstrate that the potential sulfur emissions from each type of fuel do not exceed potential sulfur emissions of 0.060 lb SO2 per MMBtu heat input using sources of information listed in 40 CFR 60.4365(a) or perform representative fuel sampling as described in 60.4365(b). [40 CFR 60.4365].	None.	Submit documentation of compliance: Once initially. The permittee shall furnish the Administrator and NJDEP a written report of the results. The permittee shall demonstrate that the potential sulfur emissions from each type of fuel do not exceed potential sulfur emissions of 0.060 lb SO2 per MMBtu heat input using sources of information listed in 40 CFR 60.4365(a) or perform representative fuel sampling as described in 60.4365(b). [40 CFR 60.8(a)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	The owner or operator shall operate and maintain the subject stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown and malfunction. (NSPS Subpart KKKK) [40 CFR 60.4333(a)]	None.	None.	None.
52	To demonstrate continuous compliance with NOx limit, the owner or operator of the turbine that does not use water or steam injection may, as alternative to performing annual performance tests as described in 40 CFR 60.4340(a), install, certify, maintain, and operate a continuous parameter monitoring that continuously monitor appropriate parameters as described in 40 CFR 60.4340(b)2i (for a diffusion flame turbine), 40 CFR 60.4340(b)2ii (for a lean premix turbine), and 40 CFR 60.4340(b)2iii (for any turbine that uses SCR to reduce NOx emissions). (NSPS Subpart KKKK) [40 CFR 60.4340(b)(2)]	Monitored by parametric monitoring system continuously. The permittee shall continuously monitor appropriate parameters in accordance with the parameter monitoring plan developed pursuant to 40 CFR 60.4355(a)(1) through (a)(6), which explains the procedures used to document proper operation of the NOx emission controls. The acceptable values and ranges shall be established during the performance test required under 40 CFR 60.8. [40 CFR 60.4355(a)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The permittee shall keep on-site a parameter monitoring plan developed in accordance with 40 CFR 60.4355(a)(1) through (a)(6). [40 CFR 60.4355(a)]	Submit a plan: Once initially. The permittee shall submit to the Administrator and copy to NJDEP a continuous parameter monitoring plan containing justification for the proposed elements of the monitoring. [40 CFR 60.4355(a)(6)]
53	The owner or operator may elect not to monitor the total sulfur content of the fuel combusted in the turbine if the fuel is demonstrated not to exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> /MMBtu heat input for units located in continental areas. (NSPS Subpart KKKK) [40 CFR 60.4365]	Other: The required demonstration that the total sulfur content of the fuel does not exceed potential sulfur emissions of 0.060 lb SO <sub>2</sub> /MMBtu shall be made using a current valid purchase contract, tariff sheet or transportation contract specifying that in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365(a)].	Recordkeeping by fuel certification receipts at the approved frequency. The owner or operator shall keep copies of valid purchase contracts, tariff sheets or transportation contracts specifying that in continental areas the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) and for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet. [40 CFR 60.4365]	Demonstrate compliance: Once initially. The owner or operator shall submit the required determination to the Administrator using the sources of information described in 40 CFR 60.4365(a) showing the maximum total sulfur content for continental areas for oil use at 0.05 weight percent or less and for natural gas at 20 grains of sulfur or less per 100 standard cubic feet or to demonstrate that fuel has potential sulfur emissions of less than 0.060 lb SO <sub>2</sub> /MMBtu heat input. [40 CFR 60.4365(a)]

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**Emission Unit:** U301 Three Natural Gas Turbines**Operating Scenario:** OS1 NG Turbine 1 - Testing and Maintenance, OS5 NG Turbine 2 - Testing and Maintenance, OS9 NG Turbine 3 - Testing and Maintenance

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Hours of Operation &lt;= 288 hr/yr for testing and maintenance. The total combined limit for all turbines on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the turbine.</p> <p>Hours of Operation &lt;= 96 hr/yr for testing and maintenance. The individual limit for each turbine on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the turbine.</p> <p>Hours of Operation &lt;= 24 hours per month for testing and maintenance. The total combined limit for all turbines on the allowable hours for testing and maintenance.</p> <p>Hours of Operation &lt;= 8 hours per day for testing and maintenance. The individual limit for each turbine on the allowable hours for testing and maintenance. [N.J.A.C. 7:27-22.16(a)]</p>	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	<p>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:</p> <p>For each time the turbine is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the turbine's hour meter; and</li> <li>iv. The name of the operator. [N.J.A.C. 7:27-22.16(o)]</li> </ul>	<p>Submit notification: Prior to occurrence of event.</p> <p>PVSC shall provide 48 hours' notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on its website. [N.J.A.C. 7:27-22.16(o)]</p>
2	VOC (Total) <= 1.64 lb/hr. Maximum emission rate based on vendor estimate (0.0052 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) <= 4 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NO <sub>x</sub> (Total) ≤ 2.93 lb/hr. Maximum emission rate based on vendor estimate (0.0093 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
5	NO <sub>x</sub> (Total) ≤ 2.5 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
6	CO ≤ 2.14 lb/hr. Maximum emission rate based on vendor estimate (0.0068 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
7	CO ≤ 3 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
8	SO <sub>2</sub> ≤ 1.07 lb/hr. Maximum emission rate based on AP-42 emission factor (0.0034 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	TSP ≤ 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
10	PM-10 (Total) ≤ 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	PM-2.5 (Total) <= 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
12	Acrolein <= 0.00222 lb/hr. Maximum emission rate based on AP-42 emission factor plus 10% safety factor (0.00000704 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.15 lb/hr. Maximum emission rate based on manufacturer's estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Ammonia <= 2.1 lb/hr. Maximum emission rate based on manufacturer's estimation data. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. [N.J.A.C. 7:27-22.16(o)]
15	Ammonia <= 5 ppmvd @ 15% O <sub>2</sub> . Maximum allowable ammonia slip based on manufacturer's estimation data. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. [N.J.A.C. 7:27-22.16(o)]



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**Emission Unit:** U301 Three Natural Gas Turbines**Operating Scenario:** OS2 NG Turbine 1 - Startup, OS6 NG Turbine 2 - Startup, OS10 NG Turbine 3 - Startup

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Start-up Period <= 25 minutes. Maximum allowable time for start-up operation.  Start-Up is defined as the period beginning with ignition of fuel in the turbine up until the turbine achieves steady state operation. [N.J.A.C. 7:27-22.16(a)]	Start-up Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Start-up Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. For each time the turbine is started up, the owner or operator shall record and maintain the following:  1. The date of the start-up;  2. The time ignition of fuel began; and  3. The time steady state operation was achieved. [N.J.A.C. 7:27-22.16(o)]	None.
2	VOC (Total) <= 10.6 lb/hr (4.40 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 6.96 lb/hr (2.90 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 152 lb/hr (63.2 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 1.07 lb/hr (0.446 lb/event). Maximum emission rate based on AP-42 emission factor (0.0034 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 4.41 lb/hr (1.84 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 4.41 lb/hr (1.84 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-2.5 (Total) <= 4.41 lb/hr (1.84 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.00222 lb/hr (0.000924 lb/event). Maximum emission rate based on AP-42 emission factor plus 10% safety factor (0.00000704 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Formaldehyde <= 2.11 lb/hr (0.880 lb/event). Maximum emission rate based on manufacturer's estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
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**Emission Unit:** U301 Three Natural Gas Turbines**Operating Scenario:** OS3 NG Turbine 1 - Shutdown, OS7 NG Turbine 2 - Shutdown, OS11 NG Turbine 3 - Shutdown

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Shutdown Period <= 10 minutes. Maximum allowable time for shutdown operation.  Shutdown is defined as the period beginning with the cessation of steady state operation in the turbine up until fuel is no longer supplied to the turbine. [N.J.A.C. 7:27-22.16(a)]	Shutdown Period: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Shutdown Period: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. For each time the turbine is shutdown, the owner or operator shall record and maintain the following:  1. The date of the shutdown;  2. The time cessation of steady state operation began; and  3. The time fuel was no longer supplied to the turbine. [N.J.A.C. 7:27-22.16(o)]	None.
2	VOC (Total) <= 21 lb/hr (3.50 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 8.4 lb/hr (1.40 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 120 lb/hr (20.0 lb/event). Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	SO2 <= 1.07 lb/hr (0.179 lb/event). Maximum emission rate based on AP-42 emission factor (0.0034 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 4.41 lb/hr (0.735 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 4.41 lb/hr (0.735 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-2.5 (Total) <= 4.41 lb/hr (0.735 lb/event). Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Acrolein <= 0.00222 lb/hr (0.000370 lb/event). Maximum emission rate based on AP-42 emission factor plus 10% safety factor (0.00000704 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Formaldehyde <= 4.83 lb/hr (0.805 lb/event). Maximum emission rate based on manufacturer's estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
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**Emission Unit:** U301 Three Natural Gas Turbines

**Operating Scenario:** OS13 NG Turbine 1 - Storm Preparation  
, OS14 NG Turbine 2 - Storm Preparation, OS15 NG Turbine 3 - Storm Preparation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Hours of Operation &lt;= 960 hr/yr for storm preparation. The total combined limit for all turbines on the allowable hours for storm preparation based on two turbines operating simultaneously for up to 48 hours per storm event for a maximum of 10 storm events per year.</p> <p>"Storm event" is defined as: storms determined by the New Jersey Office of Emergency Management as having the capability of disrupting power service to the facility.</p> <p>Hours of Operation &lt;= 480 hr/yr for storm preparation. The individual limit for each turbine on the allowable hours for storm preparation based on a maximum operation of 48 hours per storm event for a maximum of 10 storm events per year.</p> <p>Hours of Operation &lt;= 48 hours per storm event for storm preparation. The individual limit for each turbine on the allowable hours for storm preparation prior to each storm storm event based on the maximum amount of time it would take to safely transition the facility from grid power to emergency on-site power. Only two turbines may operate simultaneously. [N.J.A.C. 7:27-22.16(a)]</p>	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	<p>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:</p> <p>For each time the turbine is specifically operated for storm preparation:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. A copy of the storm preparation email alert, which includes the date and time the alert was sent and the instructions for staff and operators to prepare for the event;</li> <li>iii. A copy of the weather forecast, and related information, showing the anticipated severity and timing of the storm, which was used to determine storm preparation was required;</li> <li>iv. Documentation of the New Jersey State Policy Regional Operations and Intelligence Center recommendation for emergency preparedness;</li> <li>v. The date(s) of operation and the start up and shut down time;</li> <li>vi. The total operating time for storm preparation based on the turbine's hour meter; and</li> <li>vii. The name of the operator.</li> </ul> <p>[N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit notification: Upon occurrence of event.</p> <p>PVSC shall provide notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on its website. [N.J.A.C. 7:27-22.16(o)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) $\leq$ 1.64 lb/hr. Maximum emission rate based on vendor estimate (0.0052 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
3	VOC (Total) $\leq$ 4 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
4	NO <sub>x</sub> (Total) $\leq$ 2.93 lb/hr. Maximum emission rate based on vendor estimate (0.0093 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
5	NO <sub>x</sub> (Total) $\leq$ 2.5 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO <sub>x</sub> (Total): Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
6	CO $\leq$ 2.14 lb/hr. Maximum emission rate based on vendor estimate (0.0068 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
7	CO $\leq$ 3 ppmvd @ 15% O <sub>2</sub> . Maximum emission rate based on vendor estimate. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
8	SO <sub>2</sub> $\leq$ 1.07 lb/hr. Maximum emission rate based on AP-42 emission factor (0.0034 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	TSP <= 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
10	PM-10 (Total) <= 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
11	PM-2.5 (Total) <= 4.41 lb/hr. Maximum emission rate based on vendor estimate (0.014 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Summary specified in this permit. [N.J.A.C. 7:27-22.16(o)]
12	Acrolein <= 0.00222 lb/hr. Maximum emission rate based on AP-42 emission factor plus 10% safety factor (0.00000704 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Formaldehyde <= 0.15 lb/hr. Maximum emission rate based on manufacturer's estimate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Ammonia <= 2.1 lb/hr. Maximum emission rate based on manufacturer's estimation data. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. [N.J.A.C. 7:27-22.16(o)]
15	Ammonia <= 5 ppmvd @ 15% O <sub>2</sub> . Maximum allowable ammonia slip based on manufacturer's estimation data. [N.J.A.C. 7:27-22.16(a)]	Ammonia: Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Ammonia: Recordkeeping by stack test results once initially. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Refer to Stack Testing Requirements specified in this permit. [N.J.A.C. 7:27-22.16(o)]

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

**Emission Unit:** U304 Two Emergency Black Start Engines

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart ZZZZ [40 CFR Federal Rules Summary]			
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 7.74 lb/hr. Particulate emission limit for each emergency generator from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Generator fuel limited to natural gas only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (cubic feet per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in cubic feet per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) - (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (cubic feet per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ul> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of shall maintain the above records for at least 5 years after the record was made and shall make the records readily available to the Department or the EPA. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="https://dep.nj.gov/boss/air-quality-forecast-fc">https://dep.nj.gov/boss/air-quality-forecast-fc</a> and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Hours of Operation <= 100 hr/yr for testing and maintenance for each emergency generator. The limit on the allowable hours for testing and maintenance in accordance with the documentation from the 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.
8	Maximum Gross Heat Input <= 18.7 MMBTU/hr (HHV) each. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
9	The two gas-fired black start engine generators (BSGs) shall be configured in an N+1 arrangement, such that only one BSG will operate at a time with the other as a backup unit. [N.J.A.C. 7:27-22.16(o)]	Monitored by documentation of construction once initially. Documentation of construction should show that only one BSG is capable of operating at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain documentation of construction showing only one BSG can be operated at a time for the life of the equipment. [N.J.A.C. 7:27-22.16(o)]	None.
10	VOC (Total) <= 0.114 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.
11	NOx (Total) <= 0.163 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	CO <= 0.325 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	TSP <= 0.0337 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	PM-10 (Total) <= 0.0163 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-2.5 (Total) <= 0.0163 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	HAPs (Total) <= 0.127 tons/yr. Annual emission limit based on permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Acrolein <= 0.00961 tons/yr. Annual emission limit based on permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Ethylene dibromide <= 0.0000911 tons/yr. Annual emission limit based on permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Formaldehyde <= 0.117 tons/yr. Annual emission limit based on permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator of the new emergency stationary spark ignition internal combustion engine (SI ICE) with a maximum engine power of HP $\geq$ 130 (kW $\geq$ 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, in units either g/HP-hr or ppmvd at 15 percent O <sub>2</sub> : NO <sub>x</sub> $\leq$ 2.0 g/HP-hr, CO $\leq$ 4.0 g/HP-hr, VOC $\leq$ 1.0 g/HP-hr or NO <sub>x</sub> $\leq$ 160 ppmvd at 15% O <sub>2</sub> , CO $\leq$ 540 ppmvd at 15% O <sub>2</sub> , VOC $\leq$ 86 ppmvd at 15% O <sub>2</sub> . (NSPS Subpart JJJJ) [40 CFR 60.4233(e)]	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.
21	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.
22	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.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	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.
24	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.
25	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.

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Facility Specific Requirements**

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

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

**Emission Unit:** U304 Two Emergency Black Start Engines**Operating Scenario:** OS1 NG Black Start Engine 1 - Testing and Maintenance, OS2 NG Black Start Engine 2 - Testing and Maintenance

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.14 lb/hr. Hourly emission limit based on vendor estimate (0.061 lb/MMBtu / 1 g/hp-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.63 lb/hr. Hourly emission limit based on vendor estimate (0.087 lb/MMBtu / 2 g/hp-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 3.25 lb/hr. Hourly emission limit based on vendor estimate (0.174 lb/MMBtu / 4 g/hp-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.337 lb/hr. Hourly emission limit based on vendor estimate (0.018 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.163 lb/hr. Hourly emission limit based on vendor estimate (0.0087 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.163 lb/hr. Hourly emission limit based on vendor estimate (0.0087 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Acrolein <= 0.0961 lb/hr. Hourly emission limit based on AP-42 (0.00514 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Ethylene dibromide <= 0.000911 lb/hr. Hourly emission limit based on AP-42 (0.0000487 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Formaldehyde <= 1.17 lb/hr. Hourly emission limit based on vendor estimate (0.018 g/hp-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

**Emission Unit:** U306 Two Emergency Diesel Fire Pump Engines

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart IIII 40 CFR 63 Subpart ZZZZ [40 CFR Federal Rules Summary]			
2	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
3	Particulate Emissions <= 0.92 lb/hr. Particulate emission limit for each emergency generator from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Generator fuel limited to diesel fuel only. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
6	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
7	<p>Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, including other fire protection equipment, as recommended in writing by the fire pump or fire protection system manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu, or</p> <p>4. To provide power to pump water for fire suppression or protection, or in case of flood, even if there is no power outage and primary source of mechanical energy has not failed. [N.J.A.C. 7:27-22.16(a)] and [N.J.A.C. 7:27-19.1]</p>	<p>Monitored by hour/time monitor continuously.</p> <p>In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; hours of operation during power disruption resulted from construction, repair and maintenance activity (CRM) at the facility; and the total fuel usage calculated by the following:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing and maintenance) - (The monthly total operating time due to power disruption resulted from construction, repair, or maintenance activity not counting operation during the performance of normal testing and maintenance procedures). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Record the following information:</p> <p>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month), and the monthly hours of operation for emergency use and during power disruption from CRM. Document if the emergency use was due to internal or external loss of primary source of energy, or due to a fire or flood. If internal loss at the facility, document the emergency and/or CRM that occurred, the damages to the primary source of energy and the amount of time needed for repairs.</p> <p>2. For each time the emergency generator is specifically operated for testing or maintenance:</p> <ul style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ul> <p>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</p> <p>The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, 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 <a href="https://dep.nj.gov/boss/air-quality-forecast-fc">https://dep.nj.gov/boss/air-quality-forecast-fc</a> and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again after emergency or after power disruption resulted from construction, repair, or maintenance activity. Operation of the emergency generator during construction, repair, or maintenance activity shall be limited to no more than 30 days of operation per calendar year. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Hours of Operation $\leq$ 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information:  For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
10	Maximum Gross Heat Input $\leq$ 1.54 MMBTU/hr (HHV) each. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing the maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
11	VOC (Total) $\leq$ 0.00723 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	NOx (Total) $\leq$ 0.145 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	CO $\leq$ 0.129 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 $\leq$ 0.00774 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) $\leq$ 0.00774 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	PM-2.5 (Total) <= 0.00774 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
18	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
19	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
20	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]
22	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
24	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
26	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)]
27	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
28	The owner or operator of a fire pump engine with a displacement of less than 30 liters per cylinder must comply with the emissions standards in table 4 to NSPS IIII for the same model year and nameplate engine power as follows: NMHC + NO <sub>x</sub> ≤ 4 g/kW-hr, CO ≤ 3.5 g/kW-hr, PM ≤ 0.2 g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII) [40 CFR 60.4205(c)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.



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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. (NSPS Subpart IIII) [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.
30	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. (NSPS Subpart IIII) [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
31	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable. (NSPS Subpart IIII) [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	The owner or operator of a fire pump engine that was manufactured starting with or after the model year that applies to the engine power rating and a rated speed in table 3 to NSPS IIII and must comply with the emission standards in 40 CFR 60.4205(c), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications. (NSPS Subpart IIII) [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
33	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. (NSPS Subpart IIII) [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.

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

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

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

**Emission Unit:** U306 Two Emergency Diesel Fire Pump Engines

**Operating Scenario:** OS1 Diesel Fire Pump Engr 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.0723 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (0.2 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.45 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (4 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.29 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (5 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP <= 0.0774 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (0.3 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0.0774 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (0.3 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.0774 lb/hr. Hourly emission limit based on manufacturer specifications stating engine is certified to meet NSPS emission limits (0.3 g/kw-hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U306 Two Emergency Diesel Fire Pump Engines

**Operating Scenario:** OS2 Diesel Fire Pump Engn 2

The requirements for this item are identical to those for: U306 OS1

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

**Facility Name (AIMS):** Passaic Valley Sewerage Commission

**Facility ID (AIMS):** 07349

**Street** PASSAIC VALLEY SEWERAGE COMMISSION  
**Address:** 600 WILSON AVE  
NEWARK, NJ 07105

**Mailing** PASSAIC VALLEY SEWERAGE COMMISSION  
**Address:** 600 WILSON AVE  
NEWARK, NJ 07105

**County:** Essex  
**Location** Wastewater treatment plant in Essex County  
**Description:** area, NJ

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	596,552
<b>Y-Coordinate:</b>	684,568
<b>Units:</b>	Feet
<b>Datum:</b>	NAD83
<b>Source Org.:</b>	Address Match
<b>Source Type:</b>	Digital Image

<b>Industry:</b>	
<b>Primary SIC:</b>	4952
<b>Secondary SIC:</b>	
<b>NAICS:</b>	221320

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

**Contact Type: Air Permit Information Contact**

**Organization:** Passaic Valley Sewerage Commission

**Org. Type:** Auth/Dist/Comm

**Name:** Marques Eley

**NJ EIN:** 00226002471

**Title:** Senior Engineer

**Phone:** (973) 466-2969 x

**Mailing Address:** Passaic Valley Sewerage Commission

**Fax:** (973) 817-5709 x

600 Wilson Avenue

**Other:** ( ) - x

Newark, NJ 07105

**Type:**

**Email:** meley@pvsc.com

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**Contact Type: Fees/Billing Contact**

**Organization:** Passaic Valley Sewerage Commission

**Org. Type:** Auth/Dist/Comm

**Name:** Joseph Kelly

**NJ EIN:** 00226002471

**Title:** Chief Financial Officer

**Phone:** (973) 817-5998 x

**Mailing Address:** Passaic Valley Sewerage Commission

**Fax:** (973) 344-4392 x

600 Wilson Avenue

**Other:** ( ) - x

Newark, NJ 07105

**Type:**

**Email:** jkelly@pvsc.com

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**Contact Type: Operator**

**Organization:** Passaic Valley Sewerage Commission

**Org. Type:** Municipal

**Name:** Passaic Valley Sewerage Commission

**NJ EIN:** 00226002471

**Title:** Operator

**Phone:** (973) 817-5699 x

**Mailing Address:** Passaic Valley Sewerage Commission

**Fax:** (973) 817-5738 x

600 Wilson Avenue

**Other:** ( ) - x

Newark, NJ 07105

**Type:**

**Email:** mdefrancisci@PVSC.com

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

**Contact Type: Owner (Current Primary)**

**Organization:** Passaic Valley Sewerage Commission

**Org. Type:** Municipal

**Name:** Passaic Valley Sewerage Commission

**NJ EIN:** 00226002471

**Title:** Owner

**Phone:** (973) 817-5699 x

**Mailing Address:** Passaic Valley Sewerage Commission  
600 Wilson Avenue  
Newark, NJ 07105

**Fax:** (973) 817-5738 x

**Other:** ( ) - x

**Type:**

**Email:** mdefrancisci@PVSC.com

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**Contact Type: Responsible Official**

**Organization:** Passaic Valley Sewerage Commission

**Org. Type:** Auth/Dist/Comm

**Name:** Thomas A. Laustsen

**NJ EIN:** 00226002471

**Title:** Chief Operating Officer

**Phone:** (973) 817-5980 x

**Mailing Address:** Passaic Valley Sewerage Commission  
600 Wilson Avenue  
Newark, NJ 07105

**Fax:** (973) 817-5709 x

**Other:** (973) 817-5991 x

**Type:** Other Line

**Email:** tlaustsen@pvsc.com



**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	7 Storage Tanks - Vapor Pressure < 0.02 psia or Capacity < 2000 gal	Storage Vessel	Various Plant Locations									
IS2	16 Boilers and Water Heaters, Indirect Fired - Max Gross Heat Input < 1 MMBtu/hr	Fuel Combustion Equipment (Other)	Various Plant Locations									
IS3	21 Space Heaters and Thermal Oxidizers, Direct Fired - Max Gross Heat Input < 1 MMBtu/hr	Fuel Combustion Equipment (Other)	Various Plant Locations									
IS5	6 Cold Cleaning Machines <=6 sq. ft., open top, <= 100 gal capacity, > 2 gal solvents, > 5% VOC content	Cleaning Machine (Open Top: Cold)	Various Plant Locations									
IS7	2 Emergency Generators, Max Heat Input < 1 MMBTU/hr	Emergency Generator	Various Plant Locations	0.000	0.200	0.500	0.000	0.100	0.100	0.000	0.00000000	10.000
Total				3.545	9.203	0.500	0.000	0.100	0.100	0.000	0.00000000	10.000

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E6	NJS 016	Oxygen Production Building Boiler #1 (10.4 mmbtu/hr)	Boiler	PCP960005	7/1/1981	No	3/1/1994	
E7	NJS 016	Oxygen Production Building Boiler #2 (10.4 mmbtu/hr)	Boiler	PCP960005	7/1/1981	No	3/1/1994	
E10	NJS 020	Grit and Screening Boiler #1 (1.701 MMBtu/hr)	Boiler	GEN040001	1/19/2004	No		
E11	NJS 020	Grit and Screening Boiler #2 (1.701 MMBtu/hr)	Boiler	GEN040001	1/19/2004	No		
E12	NJS 021	Wet Weather Pump Station Boiler #1 (1.714 mmbtu/hr)	Boiler	PCP960008	9/30/2013	No		
E13	NJS 021	Wet Weather Pump Station Boiler #2 (1.714 mmbtu/hr)	Boiler	PCP960008	9/30/2013	No		
E19	NJS 030	Lime Storage Silo #1 with baghouse for particulate control	Storage Vessel	PCP960013		No	8/23/1991	
E20	NJS 031	Lime Storage Silo #2 with baghouse for particulate control	Storage Vessel	PCP960014		No	8/23/1991	
E21	NJS 032	Lime Storage Silo #3 with baghouse for particulate control	Storage Vessel	PCP960015		No	8/23/1991	
E23	NJS 034	Auto-Truck Paint Spray Booth	Surface Coating Equipment (Non-Fabric Material)	PCP960017	1/2/1990	No		
E25	NJS 036	Lime Bin #1 with baghouse for particulate control	Storage Vessel	PCP960019	3/12/1991	No	8/23/1991	
E26	NJS 037	Lime Bin #2 with baghouse for particulate control	Storage Vessel	PCP960020	3/12/1991	No	8/21/1991	

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E27	NJS 038	Sludge Filter Presses U23	Other Equipment	PCP960021	3/1/1991	No	3/1/1991	
E28	NJS 039	Sludge Loading Building Ventilation	Other Equipment	PCP960022	3/1/1991	No	3/1/1991	
E29	NJS 041	Sludge Heat Treatment Boiler #1	Boiler	PCP960024	11/1/1992	No		
E30	NJS 042	Sludge Heat Treatment Boiler #2	Boiler	PCP960025	11/1/1992	No		
E31	NJS 043	Sludge Heat Treatment Boiler #3	Boiler	PCP960026	11/1/1992	No		
E32	NJS 040	Sludge Heat Treatment Boiler #4	Boiler	PCP960023	11/1/1992	No		
E33		NaOCl Storage Tank #1	Storage Vessel	PCP970001	9/15/1997	No		
E34		NaOCl Storage Tank #2	Storage Vessel	PCP970002	9/15/1997	No		
E35		NaOCl Storage Tank #3	Storage Vessel	PCP970004	9/15/1997	No		
E36		NaOCl Storage Tank #4	Storage Vessel	PCP970005	9/15/1997	No		
E37		NaOCl Storage Tank #5	Storage Vessel	PCP970003	9/15/1997	No		
E38		Centrifuge Facility Hot Water Heater #1	Process Heater	PCP960027		No		
E39		Centrifuge Facility Hot Water Heater #2	Process Heater	PCP960027		No		
E51		Fine Screens	Other Equipment	P-1968		Yes		
E52		Grit Channels	Other Equipment	P-1968		Yes		
E53		Influent Screw Pumps	Other Equipment	P-1968		Yes		

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E59		Primary Clarifiers	Other Equipment	P-1968		Yes		
E64	SludgeTank	Sludge Storage Tank	Other Equipment					
E71		Oxygenation Tanks	Other Equipment	P-1968		Yes		
E72		Final Clarifiers	Other Equipment	P-1968		Yes		
E73		Return Sludge Screw Pump Facilities	Other Equipment	P-1968		Yes		
E74		Gravity Thickeners	Other Equipment	P-1968		Yes		
E75		Chlorination Facilities	Other Equipment	P-1968		Yes		
E79	TC-1	Thickening Centrifuge #1	Other Equipment	PCP020001	8/1/2001	No		
E80	TC-2	Thickening Centrifuge #2	Other Equipment	PCP020001	8/1/2001	No		
E81	TC-3	Thickening Centrifuge #3	Other Equipment	PCP020001	8/1/2001	No		
E82	TC-4	Thickening Centrifuge #4	Other Equipment	PCP020001	8/1/2001	No		
E83	TC-5	Thickening Centrifuge #5	Other Equipment	PCP020001	8/1/2001	No		
E84	TSW-1	Thickener Sludge Wetwell #1	Other Equipment					
E85	TSW-2	Thickener Sludge Wetwell #2	Other Equipment					
E86	TSW-3	Thickener Sludge Wetwell #3	Other Equipment					
E87	TSW-4	Thickener Sludge Wetwell #4	Other Equipment					
E88	TSW-5	Thickener Sludge Wetwell #5	Other Equipment					
E89	TSW-6	Thickener Sludge Wetwell #6	Other Equipment					
E103	SprBthHeater	Auto-Truck Paint Spray Booth Air Replacement Heater	Fuel Combustion Equipment (Other)	PCP960017	1/2/1990	No		

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E106	O&M Boiler 2	O&M Boiler No. 2	Boiler	PCP960011		No	8/1/1996	
E107	O&M Boiler 3	O&M Boiler No. 3	Boiler	PCP960011		No	8/1/1996	
E108	CAT600	CAT600	Emergency Generator	gop130005		No		
E109	CATXQ350	CATXQ350	Emergency Generator	GOP130003		No		
E110	CATXQ200	CATZQ200	Emergency Generator	GOP130002		No		
E111	MMG130	MMG130	Emergency Generator	GOP130004		No		
E201	SST1	Sludge Storage Tank 1	Storage Vessel	PCP010002	7/1/1991	No	5/22/2005	
E202	SST2	Sludge Storage Tank 2	Storage Vessel	PCP010002	7/1/1991	No	5/22/2005	
E205	SST5	Sludge Storage Tank 5	Storage Vessel	PCP010002	7/1/1991	No	5/22/2005	
E206	SST6	Sludge Storage Tan 6	Storage Vessel	PCP010002	7/1/1991	No	5/22/2005	
E207	GASTANK1	Vehicle Maintenance Gasoline Underground Storage Tank #1 (10,000 gallons)	Storage Vessel		10/24/2022	No		
E208	GASTANK2	Vehicle Maintenance Gasoline Underground Storage Tank #2 (6,000 gallons)	Storage Vessel		10/24/2022	No		
E1501	MixConvey #1	Mixing Conveyor #1	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1502	MixConvey #2	Mixing Conveyor #2	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1503	Belt Elev #1	Belt Elevator #1	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1504	Belt Elev #2	Belt Elevator #2	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1505	Cent Cen Scr	Centrifuge Centrate Screw Conveyor	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1506	SolidScrConv	Solids Screw Conveyor	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1507	SludgSilo #1	Sludge Storage Silo #1	Storage Vessel	PCP960016 and PCP970006	1/15/1991	No	11/20/1995	
E1508	SludgSilo #3	Sludge Storage Silo #3	Storage Vessel	PCP960016 and PCP970006	1/15/1991	No	11/20/1995	
E1509	DidSludWetWl	Digested Sludge Wetwell	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1510	Wetwell #1	Wetwell #1	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1511	Wetwell #2	Wetwell #2	Other Equipment	PCP960016	1/15/1991	No	11/20/1995	
E1601	SludgeTank#1	Sludge Storage Tank #1	Storage Vessel	PCP970006	8/1/1991	No	10/10/1997	
E1603	SldgDecant#1	Sludge Decant Tank #1	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1604	SldgDecant#2	Sludge Decant Tank #2	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1605	SldgDecant#3	Sludge Decant Tank #3	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1606	SldgDecant#4	Sludge Decant Tank #4	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1607	SldgDecant#5	Sludge Decant Tank #5	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1608	SldgDecant#6	Sludge Decant Tank #6	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1609	FiltraPot #1	Filtrate Pot #1	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1610	FiltraPot #2	Filtrate Pot #2	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1611	FiltraPot #3	Filtrate Pot #3	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1612	FiltraPot #4	Filtrate Pot #4	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1613	FiltraPot #5	Filtrate Pot #5	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1614	SldgFeWeWell	Sludge Feed Wetwell	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1615	FiltrWetWell	Filtrate Wetwell	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1616	BeltElev#1	Belt Elevator #1	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	

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

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1617	BeltElev#2	Belt Elevator #2	Manufacturing and Materials Handling Equipment	PCP970006	8/1/1991	No	10/10/1997	
E1618	SludgSilo #2	Sludge Storage Silo #2	Storage Vessel	PCP970006	8/1/1991	No	10/10/1997	
E1619	SludgSilo #4	Sludge Storage Silo #4	Storage Vessel	PCP970006	8/1/1991	No	10/10/1997	
E1620	GASTANK2	Vehicle Maintenance Gasoline Underground Storage Tanks #1 and #2. (Tank 1 - 10,000 gallons & Tank 2 - 6,000 gallons)	Storage Vessel		10/24/2022	No		
E1621	NJS 016	Oxygen Production Building Boiler #1 (10.4 mmbtu/hr)	Boiler	PCP960005	7/1/1981	No	3/1/1994	
E3001	NG Turbine 1	28 MWe Natural Gas Turbine 1	Combustion Turbine		12/1/2021	No		
E3002	NG Turbine 2	28 MWe Natural Gas Turbine 2	Combustion Turbine		12/1/2021	No		
E3003	NG Turbine 3	28 MWe Natural Gas Turbine 3	Combustion Turbine		12/1/2021	No		
E3004	NG Engine 1	2000 kW Natural Gas Black Start Engine 1	Emergency Generator		12/1/2021	No		
E3005	NG Engine 2	2000 kW Natural Gas Black Start Engine 2	Emergency Generator		12/1/2021	No		
E3006	DS FP Engn 1	Diesel Fire Pump Engine 1	Emergency Fire Pump		12/1/2021	No		
E3007	DS FP Engn 2	Diesel Fire Pump Engine 2	Emergency Fire Pump		12/1/2021	No		



## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E6 (Boiler)

Print Date: 2/13/2025

Make:	<input type="text" value="Cleaver Brooks"/>
Manufacturer:	<input type="text" value="Cleaver Brooks"/>
Model:	<input type="text" value="CB-100-250"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="10.40"/>
Boiler Type:	<input type="text" value="Fire Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="21,528.00"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text" value="gas burner"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Direct"/>

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

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

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E7 (Boiler)

Print Date: 2/13/2025

Make:	<input type="text" value="Cleaver Brooks"/>
Manufacturer:	<input type="text" value="Cleaver Brooks"/>
Model:	<input type="text" value="CB-100-250"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="10.40"/>
Boiler Type:	<input type="text" value="Fire Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="21,528.00"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text" value="gas burner"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Direct"/>

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

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

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E10 (Boiler)  
Print Date: 2/13/2025

Make:	Model 88 Series 1
Manufacturer:	Weil McLain
Model:	1088
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.70
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	1,753.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E11 (Boiler)  
Print Date: 2/13/2025

Make:	Model 88 Series 1
Manufacturer:	Weil McLain
Model:	1088
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	1.70
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	1,753.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E12 (Boiler)  
Print Date: 2/13/2025

Make:	<input type="text" value="Superior"/>
Manufacturer:	<input type="text" value="Superior"/>
Model:	<input type="text" value="MS7-X"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="1.68"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="1,731.00"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text" value="Direct"/>

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

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

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E13 (Boiler)  
Print Date: 2/13/2025

Make:	<input type="text" value="Superior"/>
Manufacturer:	<input type="text" value="Superior"/>
Model:	<input type="text" value="MS7-X"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="1.68"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="1,731.00"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text" value="Direct"/>

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

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

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E19 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

19,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

30.00

Length (ft):

45.00

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Other

Description (if other):

pneumatic

Maximum Design Fill Rate:

17.00

Units:

ft^3/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):

20.00

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E19 (Storage Vessel)

Print Date: 2/13/2025

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E20 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

19,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

30.00

Length (ft):

45.00

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Other

Description (if other):

pneumatic

Maximum Design Fill Rate:

17.00

Units:

ft^3/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):

20.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E20 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E21 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

19,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

30.00

Length (ft):

45.00

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Other

Description (if other):

pneumatic

Maximum Design Fill Rate:

17.00

Units:

ft^3/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):

20.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E21 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

Make:	De Vilbiss	
Manufacturer:	De Vilbiss	
Model:	Cross Draft	
Method of Application:	Spray	Spray Type: Air-Assisted
Description:		

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E25 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

20.00

Length (ft):

21.00

Width (ft):

Diameter (ft):

8.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Other

Description (if other):

pneumatic

Maximum Design Fill Rate:

17.00

Units:

ft^3/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):

10.00

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E25 (Storage Vessel)

Print Date: 2/13/2025

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E26 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

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

Shape of Storage Vessel:

Cylindrical

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

20.00

Length (ft):

21.00

Width (ft):

Diameter (ft):

8.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Other

Description (if other):

pneumatic

Maximum Design Fill Rate:

17.00

Units:

ft^3/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):

10.00

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



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E26 (Storage Vessel)

Print Date: 2/13/2025

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E27 (Other Equipment)  
Print Date: 2/13/2025

Make:	Filter Press
Manufacturer:	Andritz Filter Press
Model:	PVSC
Equipment Type:	Five filter presses, each with 123-150 2 m x 2 m ductile iron recessed chamber plates.
Capacity:	570.00
Units:	dry tons/day
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E28 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Ventilation system for the cake storage facility (Silos)

Capacity:	1,000.00
Units:	tons/day
Description:	

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E29 (Boiler)  
Print Date: 2/13/2025

Make:	Babcock & Wilcox
Manufacturer:	Babcock & Wilcox
Model:	Type FM 10-70
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	67.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	50,000.00
Fuel Firing Method:	Other firing method
Description (if other):	Gas burner
Draft Type:	Forced
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<input checked="" type="checkbox"/> Type:	Coen Model 650 OAF 26
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> 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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E30 (Boiler)  
Print Date: 2/13/2025

Make:	Babcock & Wilcox
Manufacturer:	Babcock & Wilcox
Model:	Type FM 10-70
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	67.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	50,000.00
Fuel Firing Method:	Other firing method
Description (if other):	Gas burner
Draft Type:	Forced
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<input checked="" type="checkbox"/> Type:	Coen Model 650 OAF 26
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> 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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E31 (Boiler)  
Print Date: 2/13/2025

Make:	Babcock & Wilcox
Manufacturer:	Babcock & Wilcox
Model:	Type FM 10-70
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	67.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	50,000.00
Fuel Firing Method:	Other firing method
Description (if other):	Gas burner
Draft Type:	Forced
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<input checked="" type="checkbox"/> Type:	Coen Model 650 OAF 26
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> 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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E32 (Boiler)  
Print Date: 2/13/2025

Make:	Babcock & Wilcox
Manufacturer:	Babcock & Wilcox
Model:	Type FM 10-70
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	67.10
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	50,000.00
Fuel Firing Method:	Other firing method
Description (if other):	Gas burner/oil burner
Draft Type:	Forced
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<input checked="" type="checkbox"/> Type:	Coen Model 650 OAF 26
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> 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:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E33 (Storage Vessel)

Print Date: 2/13/2025

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

Liquids Only ▼

Storage Vessel Type:

Tank ▼

Design Capacity:

31,000

Units:

gallons ▼

Ground Location:

Above Ground ▼

Is the Shell of the Equipment

Yes ▼

Exposed to Sunlight?

Shell Color:

White ▼

Description (if other):

Shell Condition:

▼

Paint Condition:

Good ▼

Shell Construction:

▼

Is the Shell Insulated?

No ▼

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical ▼

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

38.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged ▼

Description (if other):

Maximum Design Fill Rate:

175.00

Units:

gal/min ▼

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

Roof ▼

Roof Type:

Vertical fixed roof tank ▼

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

Roof Construction:

▼

Primary Seal Type:

▼

Secondary Seal Type:

▼

Total Number of Seals:

Roof Support:

▼

Does the storage vessel  
have a Vapor Return Loop?

No ▼

Does the storage vessel



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E33 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E34 (Storage Vessel)  
Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

31,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

38.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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?

No

Does the storage vessel

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E34 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E35 (Storage Vessel)

Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

31,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

38.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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?

No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E35 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E36 (Storage Vessel)

Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

31,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

38.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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?

No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E36 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E37 (Storage Vessel)

Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

31,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

38.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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?

No



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E37 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E38 (Process Heater)  
Print Date: 2/13/2025

Make:	<input type="text" value="Turbopower"/>
Manufacturer:	<input type="text" value="PVI"/>
Model:	<input type="text" value="2000 N 300A-TP"/>
Equipment Type Description:	<input type="text" value="Water Heater"/>

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.6"/>
Draft Type:	<input type="text" value="Natural"/>
Firing Method:	<input type="text" value="Indirect"/>

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	<input type="text"/>
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E39 (Process Heater)  
Print Date: 2/13/2025

Make:	<input type="text" value="Turbopower"/>
Manufacturer:	<input type="text" value="PVI"/>
Model:	<input type="text" value="2000 N 300A-tP"/>
Equipment Type Description:	<input type="text" value="Water heater"/>

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.6"/>
Draft Type:	<input type="text" value="Natural"/>
Firing Method:	<input type="text" value="Indirect"/>

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	<input type="text"/>
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E51 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	Vulcan Industries
Model:	Model FT-144-DD-SD
Equipment Type:	12 feet wide, existing screen slot width 7/8", to be retrofitted to 1/2" slot width
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E52 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Grit channels
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E53 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Influent Pump Station utilizing six 12.5' diameter Archimedes screw pumps, 90 MGD each.
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E59 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Twelve primary clarifiers (each is 280' long x 90' wide x 12.25' deep)

Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E64 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Sludge Thickener tank that can be used as a sludge storage tank. 1 MG volume
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E71 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Twelve (12) High-Purity Oxygen Activated Sludge Tanks. 4 stages per tank, 58'x58'x30' each stage
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E72 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Twelve (12) final clarifiers (each 362' long x 120' wide x 13.6' deep)

Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

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

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E73 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Three 10' diameter Archimedes screw pumps, 75 MGD each.
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E74 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Twelve (12) Gravity Thickeners, 1 MG volume each
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E75 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Chlorine contact tank for use with Outfall 002.
Capacity:	99,999.00
Units:	MMgal/yr
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E79 (Other Equipment)  
Print Date: 2/13/2025

Make:	Wastewater Sludge Centrifuge
Manufacturer:	Westfalia Separator
Model:	CA-1036-06-30
Equipment Type:	Bowl and scroll centrifuge for thickening wastewater sludge.
Capacity:	1,200.00
Units:	gal/min
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E80 (Other Equipment)  
Print Date: 2/13/2025

Make:	Wastewater Sludge Centrifuge
Manufacturer:	Westfalia Separator
Model:	CA-1036-06-30
Equipment Type:	Wastewater sludge thickening centrifuge
Capacity:	1,200.00
Units:	gal/min
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E81 (Other Equipment)  
Print Date: 2/13/2025

Make:	Wastewater sludge centrifuge
Manufacturer:	Westfalia Separator
Model:	CA-1036-06-30
Equipment Type:	Wastewater sludge thickening centrifuge
Capacity:	1,200.00
Units:	gal/min
Description:	

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:



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E82 (Other Equipment)  
Print Date: 2/13/2025

Make:	Wastewater sludge centrifuge
Manufacturer:	Westfalia Separator
Model:	CA-1036-50-30
Equipment Type:	Wastewater sludge thickening centrifuge.
Capacity:	1,200.00
Units:	gal/min
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E83 (Other Equipment)  
Print Date: 2/13/2025

Make:	Wastewater Sludge Centrifuge
Manufacturer:	Westfalia Separator
Model:	CA-1036-50-30
Equipment Type:	Wastewater Sludge Thickening Centrifuge
Capacity:	1,200.00
Units:	gal/min
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E84 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E85 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E86 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E87 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E88 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E89 (Other Equipment)  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Thickened sludge wet well; 16' wide x 18' long x 15' deep.
Capacity:	32,300.00
Units:	gallons
Description:	

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:



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E103 (Fuel Combustion Equipment (Other))  
Print Date: 2/13/2025

Make:	DeVilbiss
Manufacturer:	DeVilbiss
Model:	ARH-5517
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.70
Type of Heat Exchange:	Direct
Equipment Type Description:	Air Replacement System for paint spray booth

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: Model from operating permit application: TOT-218HH  
from preconstruction permit: ARH-5517

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

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E106 (Boiler)  
Print Date: 2/13/2025

Make:	Cleaver-Brooks
Manufacturer:	Cleaver-Brooks
Model:	CBI-200-600-125
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	24.50
Boiler Type:	Water Tube
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	25,254.00
Fuel Firing Method:	Other firing method
Description (if other):	gas burner
Draft Type:	Forced
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<input type="checkbox"/> Type:	
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/> 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: Boilers derated by fuel control 12/22/97 to 19.76 MMBtu/hr, but treated as original 36.6 MMBtu/hr in Operating Permit because no physical boiler change was made.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E107 (Boiler)  
Print Date: 2/13/2025

Make:	<input type="text" value="Cleaver-Brooks"/>
Manufacturer:	<input type="text" value="Cleaver-Brooks"/>
Model:	<input type="text" value="CBI-200-600-125"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="24.50"/>
Boiler Type:	<input type="text" value="Water Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="25,254.00"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text" value="gas burner"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="Direct"/>

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

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

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

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

Comments:	<input type="text" value="Boilers derated by fuel control 12/22/97 to 19.76 MMBtu/hr, but treated as original 36.6 MMBtu/hr in Operating Permit because no physical boiler change was made."/>
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07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E108 (Emergency Generator)  
Print Date: 2/13/2025

Make:   
Manufacturer:   
Model:

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

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

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E109 (Emergency Generator)  
Print Date: 2/13/2025

Make:	Generator	
Manufacturer:	Caterpillar	
Model:	XQ350	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	3.49	
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:		

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E110 (Emergency Generator)  
Print Date: 2/13/2025

Make: Generator  
Manufacturer: Caterpillar  
Model: XQ200

Maximum rated Gross Heat  
Input (MMBtu/hr-HHV): 2.18

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

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E111 (Emergency Generator)  
Print Date: 2/13/2025

Make:	<input type="text" value="Generator"/>	
Manufacturer:	<input type="text" value="Magnum Power Products"/>	
Model:	<input type="text" value="MMG130"/>	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.00"/>	
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:		

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E201 (Storage Vessel)

Print Date: 2/13/2025

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

Both Solids and Liquids

Storage Vessel Type:

Tank

Design Capacity:

2,700,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Poor

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

49.00

Length (ft):

Width (ft):

Diameter (ft):

101.00

Other Dimension

Description:

Side Water Depth

Value:

45.50

Units:

feet

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

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



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:

Steel tanks

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E202 (Storage Vessel)  
Print Date: 2/13/2025

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

Both Solids and Liquids

Storage Vessel Type:

Tank

Design Capacity:

2,700,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Poor

Shell Construction:

Welded

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

49.00

Length (ft):

Width (ft):

Diameter (ft):

101.00

Other Dimension

Description:

Side Water Depth

Value:

45.50

Units:

feet

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

Units:

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

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:

Steel tank

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E205 (Storage Vessel)  
Print Date: 2/13/2025

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

Both Solids and Liquids

Storage Vessel Type:

Tank

Design Capacity:

2,700,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

49.00

Length (ft):

Width (ft):

Diameter (ft):

101.00

Other Dimension

Description:

Side Water Depth

Value:

45.50

Units:

feet

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

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?

No

Does the storage vessel

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:

Tanks are concrete

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E206 (Storage Vessel)  
Print Date: 2/13/2025

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

Both Solids and Liquids

Storage Vessel Type:

Tank

Design Capacity:

2,700,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

49.00

Length (ft):

Width (ft):

Diameter (ft):

101.00

Other Dimension

Description:

Side Water Depth

Value:

45.50

Units:

feet

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

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?

No

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:

Tanks are concrete

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E207 (Storage Vessel)  
Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

10,000

Units:

gallons

Ground Location:

Below Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

Length (ft):

30.50

Width (ft):

Diameter (ft):

8.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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):

8.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Yes



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E207 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E208 (Storage Vessel)  
Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,000

Units:

gallons

Ground Location:

Below Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

Length (ft):

19.50

Width (ft):

Diameter (ft):

8.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E208 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Sludge conveyor belt 1	
Capacity:	200.00	
Units:	tons/day	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Sludge conveyor belt 2	
Capacity:	200.00	
Units:	tons/day	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Sludge conveyor belt elevator	
Capacity:	200.00	
Units:	tons/day	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Equipment Type:	Sludge conveyor belt elevator
Capacity:	200.00
Units:	tons/day
Description:	

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:

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Centrifuge centrate screw conveyor	
Capacity:	200.00	
Units:	tons/day	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	



Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Dewatered sloids screw conveyor	
Capacity:	200.00	
Units:	tons/day	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1507 (Storage Vessel)

Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,109

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

85.00

Length (ft):

Width (ft):

Diameter (ft):

33.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

ft<sup>3</sup>/minDoes 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):

65.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1507 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1508 (Storage Vessel)

Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,109

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

85.00

Length (ft):

Width (ft):

Diameter (ft):

33.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

ft<sup>3</sup>/minDoes 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):

65.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1508 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Digested sludge tank	
Capacity:	20,000.00	
Units:	gallons	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Sludge wet well 1	
Capacity:	3,000.00	
Units:	gallons	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	

Make:	PVSC	
Manufacturer:	PVSC	
Model:	PVSC	
Equipment Type:	Sludge wet well 2	
Capacity:	3,000.00	
Units:	gallons	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	Equipment is OOS	



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1601 (Storage Vessel)  
Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Tank

Design Capacity:

417,000

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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:

ft^3/min

Does the storage vessel have  
a roof or an 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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1601 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

Equipment is OOS

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1603 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1604 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1605 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1606 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1607 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1608 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Oxidized sludge decant tank"/>
Capacity:	<input type="text" value="1.00E+06"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1609 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="Andritz"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filtrate weir tank"/>
Capacity:	<input type="text" value="7.85E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1610 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="Andritz"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filtrate weir tank"/>
Capacity:	<input type="text" value="7.85E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1611 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="Andritz"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filtrate weir tank"/>
Capacity:	<input type="text" value="7.85E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1612 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="Andritz"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filtrate weir tank"/>
Capacity:	<input type="text" value="7.85E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1613 (Manufacturing and Materials Handling Equipment)

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="Andritz"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filtrate weir tank"/>
Capacity:	<input type="text" value="7.85E+00"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1614 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Decanted sludge wet well"/>
Capacity:	<input type="text" value="8.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1615 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Filter press filtrate wet well"/>
Capacity:	<input type="text" value="2.00E+03"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1616 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dewatered sludge belt conveyor"/>
Capacity:	<input type="text" value="2.60E+03"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text"/>
Comments:	



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1617 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="PVSC"/>
Manufacturer:	<input type="text" value="PVSC"/>
Model:	<input type="text" value="PVSC"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dewatered sludge belt conveyor"/>
Capacity:	<input type="text" value="2.60E+03"/>
Units:	<input type="text" value="ft^3"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text"/>
Comments:	

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1618 (Storage Vessel)

Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,109

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

85.00

Length (ft):

Width (ft):

Diameter (ft):

33.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

ft<sup>3</sup>/minDoes 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):

65.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1618 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1619 (Storage Vessel)

Print Date: 2/13/2025

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

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

1,109

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

85.00

Length (ft):

Width (ft):

Diameter (ft):

33.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

100.00

Units:

ft<sup>3</sup>/minDoes 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):

65.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1619 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1620 (Storage Vessel)

Print Date: 2/13/2025

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,000

Units:

gallons

Ground Location:

Below Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation  
[(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

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

Length (ft):

19.50

Width (ft):

Diameter (ft):

8.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

175.00

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

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1620 (Storage Vessel)**

**Print Date: 2/13/2025**

Does the storage vessel  
have a Conservation Vent?

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

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

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E1621 (Boiler)  
Print Date: 2/13/2025

Make:	<input type="text" value="Cleaver Brooks"/>
Manufacturer:	<input type="text" value="Cleaver Brooks"/>
Model:	<input type="text" value="CB-100-250"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="10.40"/>
Boiler Type:	<input type="text" value="Fire Tube"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text" value="Steam Only"/>
Steam Output (lb/hr):	<input type="text" value="21,528.00"/>
Fuel Firing Method:	<input type="text" value="Other firing method"/>
Description (if other):	<input type="text" value="gas burner"/>
Draft Type:	<input type="text" value="Forced"/>
Heat Exchange Type:	<input type="text" value="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?

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

Comments:



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3001 (Combustion Turbine)  
Print Date: 2/13/2025

Make:			
Manufacturer:	Siemens		
Model:	SGT-600		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	315.00		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Electrical Generator	Description:	
Power Output:	28,000.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:			

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3002 (Combustion Turbine)  
Print Date: 2/13/2025

Make:			
Manufacturer:	Siemens		
Model:	SGT-600		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	315.00		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Electrical Generator	Description:	
Power Output:	28,000.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:			

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3003 (Combustion Turbine)  
Print Date: 2/13/2025

Make:			
Manufacturer:	Siemens		
Model:	SGT-600		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	315.00		
Type of Turbine:	Industrial		
Type of Cycle:	Simple-Cycle	Description:	
Industrial Application:	Electrical Generator	Description:	
Power Output:	28,000.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:			

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3004 (Emergency Generator)  
Print Date: 2/13/2025

Make:

Manufacturer:

Caterpillar

Model:

G3520

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

18.70

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3005 (Emergency Generator)  
Print Date: 2/13/2025

Make:

Manufacturer:

Caterpillar

Model:

G3520

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

18.70

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:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3006 (Emergency Fire Pump)  
Print Date: 2/13/2025

Make:	<input type="text" value="Clarke"/>		
Manufacturer:	<input type="text"/>		
Model:	<input type="text" value="JU6H-UFADP8"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="1.54"/>		
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="Fire pump engine model will be Clark JU6H-UFADP8 or equivalent."/>		

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 E3007 (Emergency Fire Pump)  
Print Date: 2/13/2025

Make:	Clarke	
Manufacturer:		
Model:	JU6H-UFADP8	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	1.54	
Will the equipment be used in excess of 500 hours per year?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	Fire pump engine model will be Clark JU6H-UFADP8 or equivalent.	

**New Jersey Department of Environmental Protection  
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	NJS 030	DCE SI42F Sintamatic Baghouse Particulate Filter	Particulate Filter (Baghouse)		No		
CD2	NJS 031	DCE SI42F Sintamatic Baghouse Particulate Filter	Particulate Filter (Baghouse)		No		
CD3	NJS 032	DCE SI42F Sintamatic Baghouse Particulate Filter	Particulate Filter (Baghouse)		No		
CD4	NJS 033	Odor Control Scrubber	Scrubber (Packed Tower)		No		
CD5	NJS 033	Ammonia Scrubber	Scrubber (Packed Tower)		No		
CD6	NJS 034	Internal Filter System	Particulate Filter (Other)		No		
CD7	NJS 035	Regenerative Thermal Oxidizer	Oxidizer (Thermal)		No		
CD8	NJS 035	Regenerative Thermal Oxidizer	Oxidizer (Thermal)		No		
CD9	NJS 036	Baghouse Particulate Filter	Particulate Filter (Baghouse)		No		
CD10	NJS 037	Baghouse Particulate Filter	Particulate Filter (Baghouse)		No		
CD11	NJS 045	Packed Tower Scrubber	Scrubber (Packed Tower)		No		
CD12	NJS 045	Packed Tower Scrubber	Scrubber (Packed Tower)		No		
CD13		Odor Control Scrubber	Scrubber (Multi-Stage)		No		
CD14		Odor Control Scrubber	Scrubber (Multi-Stage)		No		
CD15		Bioscrubber	Biofilter		No		
CD31	SCR Turbine1	Selective Catalytic Reduction for Turbine 1	Selective Catalytic Reduction	12/1/2021	No		



**New Jersey Department of Environmental Protection  
Control Device Inventory**

<b>CD NJID</b>	<b>Facility's Designation</b>	<b>Description</b>	<b>CD Type</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>CD Set ID</b>
CD32	SCR Turbine2	Selective Catalytic Reduction for Turbine 2	Selective Catalytic Reduction	12/1/2021	No		
CD33	SCR Turbine3	Selective Catalytic Reduction for Turbine 3	Selective Catalytic Reduction	12/1/2021	No		
CD34	OC Turbine1	Oxidation Catalyst for Turbine 1	Oxidizer (Catalytic)	12/1/2021	No		
CD35	OC Turbine2	Oxidation Catalyst for Turbine 2	Oxidizer (Catalytic)	12/1/2021	No		
CD36	OC Turbine3	Oxidation Catalyst for Turbine 3	Oxidizer (Catalytic)	12/1/2021	No		

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD1 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Make:	Sintamatic
Manufacturer:	DCE
Model:	SI42F
Number of Bags:	1
Size of Bags (ft²):	450.00
Total Bag Area (ft²):	450.0
Bag Fabric:	Rigid porous composite
Fabric Weight (oz/ft²):	99.99
Fabric Weave:	thread count 100 in. x 60 in.
Fabric Finish:	Heat set
Maximum Design Temperature Capability (°F):	100.0
Maximum Design Air Flow Rate (acfm):	800.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	1.60
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	4.00
Method of Monitoring Pressure Drop:	Differential pressure gauge
Maximum Inlet Temperature (°F):	50.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	800.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential pressure
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD1 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS.

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD2 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Make:	Sintamatic
Manufacturer:	DCE
Model:	SI42F
Number of Bags:	1
Size of Bags (ft²):	450.00
Total Bag Area (ft²):	450.0
Bag Fabric:	Rigid porous composite
Fabric Weight (oz/ft²):	99.99
Fabric Weave:	thread count 100 in. x 60 in.
Fabric Finish:	Heat set
Maximum Design Temperature Capability (°F):	100.0
Maximum Design Air Flow Rate (acfm):	800.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	1.60
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	4.00
Method of Monitoring Pressure Drop:	Differential pressure gauge
Maximum Inlet Temperature (°F):	50.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	800.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential pressure
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD2 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS.

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD3 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Make:	Sintamatic
Manufacturer:	DCE
Model:	SI42F
Number of Bags:	1
Size of Bags (ft²):	450.00
Total Bag Area (ft²):	450.0
Bag Fabric:	Rigid porous composite
Fabric Weight (oz/ft²):	99.99
Fabric Weave:	thread count 100 in. x 60 in.
Fabric Finish:	Heat set
Maximum Design Temperature Capability (°F):	100.0
Maximum Design Air Flow Rate (acfm):	800.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	1.60
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	4.00
Method of Monitoring Pressure Drop:	Differential pressure gauge
Maximum Inlet Temperature (°F):	50.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	800.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential pressure
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD3 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD4 (Scrubber (Packed Tower))  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	230.00
Maximum Operating Liquid Flow Rate (gpm):	230.00
Method of Monitoring Liquid Flow Rate:	Flow meter
Minimum Operating Gas Flow Rate (acfm):	15,560.00
Maximum Operating Gas Flow Rate (acfm):	15,560.00
Method of Monitoring Gas Flow Rate:	Stack testing
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	
Size of Packing Material (in):	
Tower Diameter (ft):	
Total Tower Height (ft):	
Maximum Operating Temperature of the Inlet Gas (°F):	50.0
Maximum Operating Temperature of the Exhaust Gas(°F):	100.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD4 (Scrubber (Packed Tower))  
Print Date: 2/13/2025

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD5 (Scrubber (Packed Tower))  
Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	
Maximum Pump Discharge Pressure (in. H2O):	
Method of Monitoring Pump Discharge Pressure:	
Minimum Pump Current (amps):	
Maximum Pump Current (amps):	
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	230.00
Maximum Operating Liquid Flow Rate (gpm):	230.00
Method of Monitoring Liquid Flow Rate:	Flow meter
Minimum Operating Gas Flow Rate (acfm):	15,560.00
Maximum Operating Gas Flow Rate (acfm):	15,560.00
Method of Monitoring Gas Flow Rate:	Stack testing
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	
Size of Packing Material (in):	
Tower Diameter (ft):	
Total Tower Height (ft):	
Maximum Operating Temperature of the Inlet Gas (°F):	50.0
Maximum Operating Temperature of the Exhaust Gas(°F):	100.0
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD5 (Scrubber (Packed Tower))  
Print Date: 2/13/2025

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD6 (Particulate Filter (Other))  
Print Date: 2/13/2025

Make: DeVilbiss  
Manufacturer: DeVilbiss  
Model: DeVilbiss  
Filter Description: Paint Arrestor Pads (Exhaust Filters)

Total Filter Area (ft²): 62.50  
Maximum Design Temperature Capability (°F): 80.0  
Maximum Design Air Flow Rate (acfm): 16,400.0  
Maximum Air Flow Rate to Filter Area Ratio: 262.000  
Minimum Operating Pressure Drop (in. H2O): 0.05  
Maximum Operating Pressure Drop (in. H2O): 0.40  
Maximum Inlet Temperature (°F): 80.0  
Maximum Operating Exhaust Gas Flow Rate (acfm): 16,400.0

Method for Determining When Filter Replacement is Required: Regular scheduled maintenance

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

1

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

☐ Yes ☒ No

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD6 (Particulate Filter (Other))  
Print Date: 2/13/2025

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD7 (Oxidizer (Thermal))  
Print Date: 2/13/2025

Make:	Regenerative Thermal Oxidizer
Manufacturer:	Huntington Energy Systems
Model:	PVSC
Minimum Chamber Temperature (°F):	1500
Minimum Residence Time (sec):	2
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	12
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	20
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	RTO outlet carbon monoxide (CO) concentration is continuously monitored.

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD8 (Oxidizer (Thermal))  
Print Date: 2/13/2025

Make:	Regenerative Thermal Oxidizer
Manufacturer:	Huntington Energy Systems
Model:	PVSC
Minimum Chamber Temperature (°F):	1500
Minimum Residence Time (sec):	2
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	12
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	20
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	RTO outlet carbon monoxide (CO) concentration is continuously monitored.

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD9 (Particulate Filter (Baghouse))  
Print Date: 2/13/2025

Make:	Sintamatic
Manufacturer:	DCE
Model:	SI42F
Number of Bags:	1
Size of Bags (ft²):	450.00
Total Bag Area (ft²):	450.0
Bag Fabric:	Rigid porous composite
Fabric Weight (oz/ft²):	99.99
Fabric Weave:	thread count 100 in. x 60 in.
Fabric Finish:	Heat set
Maximum Design Temperature Capability (°F):	100.0
Maximum Design Air Flow Rate (acfm):	800.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	1.60
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	4.00
Method of Monitoring Pressure Drop:	Differential pressure gauge
Maximum Inlet Temperature (°F):	50.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	800.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential pressure
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No



**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD9 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD10 (Particulate Filter (Baghouse))  
Print Date: 2/13/2025

Make:	Sintamatic
Manufacturer:	DCE
Model:	SI42F
Number of Bags:	1
Size of Bags (ft²):	450.00
Total Bag Area (ft²):	450.0
Bag Fabric:	Rigid porous composite
Fabric Weight (oz/ft²):	99.99
Fabric Weave:	thread count 100 in. x 60 in.
Fabric Finish:	Heat set
Maximum Design Temperature Capability (°F):	100.0
Maximum Design Air Flow Rate (acfm):	800.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	1.60
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	4.00
Method of Monitoring Pressure Drop:	Differential pressure gauge
Maximum Inlet Temperature (°F):	50.0
Minimum Inlet Temperature (°F):	100.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	800.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential pressure
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD10 (Particulate Filter (Baghouse))**  
**Print Date: 2/13/2025**

Have you attached data from recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

Equipment is permanently OOS.

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD11 (Scrubber (Packed Tower))

Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	6.00
Maximum Pump Discharge Pressure (in. H2O):	14.50
Method of Monitoring Pump Discharge Pressure:	Differential Pressure Gauge
Minimum Pump Current (amps):	29.00
Maximum Pump Current (amps):	36.00
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	50.00
Maximum Operating Liquid Flow Rate (gpm):	150.00
Method of Monitoring Liquid Flow Rate:	Flow meter
Minimum Operating Gas Flow Rate (acfm):	3,300.00
Maximum Operating Gas Flow Rate (acfm):	6,050.00
Method of Monitoring Gas Flow Rate:	Differential Pressure Gauge
Minimum Operating Pressure Drop (in. H2O):	2.50
Maximum Operating Pressure Drop (in. H2O):	4.50
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	Plastic
Size of Packing Material (in):	4
Tower Diameter (ft):	5.00
Total Tower Height (ft):	15.00
Maximum Operating Temperature of the Inlet Gas (°F):	
Maximum Operating Temperature of the Exhaust Gas(°F):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	11
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	pH and oxidation reduction potential (ORP) are continuously monitored
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

☐ Yes ☒ No

Comments:

## 07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD12 (Scrubber (Packed Tower))

Print Date: 2/13/2025

Make:	PVSC
Manufacturer:	PVSC
Model:	PVSC
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	6.00
Maximum Pump Discharge Pressure (in. H2O):	14.50
Method of Monitoring Pump Discharge Pressure:	Differential Pressure Gauge
Minimum Pump Current (amps):	29.00
Maximum Pump Current (amps):	36.00
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	
Minimum Operating Liquid Flow Rate (gpm):	50.00
Maximum Operating Liquid Flow Rate (gpm):	150.00
Method of Monitoring Liquid Flow Rate:	Flow meter
Minimum Operating Gas Flow Rate (acfm):	3,300.00
Maximum Operating Gas Flow Rate (acfm):	6,050.00
Method of Monitoring Gas Flow Rate:	Differential Pressure Gauge
Minimum Operating Pressure Drop (in. H2O):	2.50
Maximum Operating Pressure Drop (in. H2O):	4.50
Method of Monitoring Pressure Drop:	
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Height of Packed Section (ft):	10
Type of Packing Material:	Plastic
Size of Packing Material (in):	4
Tower Diameter (ft):	5.00
Total Tower Height (ft):	15.00
Maximum Operating Temperature of the Inlet Gas (°F):	
Maximum Operating Temperature of the Exhaust Gas(°F):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	11
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	pH and oxidation reduction potential (ORP) are continuously monitored
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

☐ Yes ☒ No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD13 (Scrubber (Multi-Stage))  
Print Date: 2/13/2025

Make:	LO/PRO
Manufacturer:	Siemens
Model:	LP-6000
Number of Stages:	2
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	6.00
Maximum Pump Discharge Pressure (in. H2O):	14.00
Method of Monitoring Pump Discharge Pressure:	Differential Pressure Gauge
Minimum Pump Current (amps):	29.00
Maximum Pump Current (amps):	38.00
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	6.00
Minimum Operating Liquid Flow Rate (gpm):	300.00
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	11,500.00
Maximum Operating Gas Flow Rate (acfm):	16,200.00
Method of Monitoring Gas Flow Rate:	Differential Pressure Gauge
Minimum Operating Pressure Drop (in. H2O):	5.00
Maximum Operating Pressure Drop (in. H2O):	9.00
Method of Monitoring Pressure Drop:	Differential Pressure Gauge
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Maximum Inlet Gas Temperature (°F):	
Maximum Outlet Gas Temperature (°F):	
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	pH and oxidation reduction potential (ORP) are contin
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD13 (Scrubber (Multi-Stage))  
Print Date: 2/13/2025

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD14 (Scrubber (Multi-Stage))  
Print Date: 2/13/2025

Make:	LO/PRO
Manufacturer:	Siemens
Model:	LP-6000
Number of Stages:	2
Is the Scrubber Used for Particulate Control?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	6.00
Maximum Pump Discharge Pressure (in. H2O):	14.00
Method of Monitoring Pump Discharge Pressure:	Differential Pressure Gauge
Minimum Pump Current (amps):	29.00
Maximum Pump Current (amps):	38.00
Method of Monitoring Pump Current:	
Minimum Scrubber Medium Inlet Pressure (in. H2O):	6.00
Minimum Operating Liquid Flow Rate (gpm):	300.00
Maximum Operating Liquid Flow Rate (gpm):	
Method of Monitoring Liquid Flow Rate:	
Minimum Operating Gas Flow Rate (acfm):	11,500.00
Maximum Operating Gas Flow Rate (acfm):	16,200.00
Method of Monitoring Gas Flow Rate:	Differential Pressure Gauge
Minimum Operating Pressure Drop (in. H2O):	5.00
Maximum Operating Pressure Drop (in. H2O):	9.00
Method of Monitoring Pressure Drop:	Differential Pressure Gauge
Relative Direction of the Gas-Liquid Flow:	Counter-Current
Description:	
Maximum Inlet Gas Temperature (°F):	
Maximum Outlet Gas Temperature (°F):	
Inlet Particle Grain Loading (gr/dscf):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	pH and oxidation reduction potential (ORP) are contin
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD14 (Scrubber (Multi-Stage))  
Print Date: 2/13/2025

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD15 (Biofilter)  
Print Date: 2/13/2025

Make:	Biofilter
Manufacturer:	Envirogen
Model:	BT-3500
Maximum Air Flow Rate to Biofilter (acfm):	14100
Maximum Temperature of Vapor Stream to Biofilter (°F):	100
Minimum Temperature of Vapor Stream to Biofilter (°F):	50
Minimum Moisture Content of Vapor Stream to Biofilter (%):	60
Bed Composition:	Synthetic reticulated polyurethane foam with activated biomass
Type of Adsorbate:	
Bed Height:	
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Bed Volume
Value:	3500
Units:	Cubic feet
Minimum Pressure Drop Across Biofilter (in. H2O):	2
Maximum Pressure Drop Across Biofilter (in. H2O):	10
Bed Activity (pH):	4
Method Used to Maintain Bed Moisture:	recirculation pump with water addition
Method Used to Maintain Bed Activity:	recirculation with nutrient addition
Method Used to Maintain Bed Temperature:	None
Method Used to Reactivate Biofilter Material:	Nutrient addition

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD15 (Biofilter)  
Print Date: 2/13/2025

Method Used to Determine When  
Biofilter Should be Reactivated:

Method used to Dispose of  
Biofilter Material?

Is the Biofilter Covered?

☒ Yes ☐ No

Is the Biofilter Heated?

☐ Yes ☒ No

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

12

Alternative Method to Demonstrate  
Control Apparatus is Operating  
Properly:

Have you attached data from  
recent performance testing?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

Comments:

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD31 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Make:	Peerless
Manufacturer:	Cormetech
Model:	CMHCDET
Minimum Temperature at Catalyst Bed (°F):	825
Maximum Temperature at Catalyst Bed (°F):	855
Minimum Temperature at Reagent Injection Point (°F):	825
Maximum Temperature at Reagent Injection Point (°F):	855
Type of Reagent:	Ammonia
Description:	
Chemical Formula of Reagent:	19% ammonium hydroxide
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	0.1
Minimum Concentration of Reagent in Solution (% Volume):	18
Minimum NOx to Reagent Mole Ratio:	1.1
Maximum NOx to Reagent Mole Ratio:	1.28
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	Vanadium-Titanium-Tungsten
Volume of Catalyst (ft³):	169
Form of Catalyst:	ceramic honeycomb
Anticipated Life of Catalyst:	5000
Units:	hours
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	stack NOx analyzer
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD31 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Comments:

Min reagent charge rate is 0.03 gpm; max reagent charge rate is 0.08 gpm.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD32 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Make:	Peerless
Manufacturer:	Cormetech
Model:	CMHCDET
Minimum Temperature at Catalyst Bed (°F):	825
Maximum Temperature at Catalyst Bed (°F):	855
Minimum Temperature at Reagent Injection Point (°F):	825
Maximum Temperature at Reagent Injection Point (°F):	855
Type of Reagent:	Ammonia
Description:	
Chemical Formula of Reagent:	19% ammonium hydroxide
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	0.1
Minimum Concentration of Reagent in Solution (% Volume):	18
Minimum NOx to Reagent Mole Ratio:	1.1
Maximum NOx to Reagent Mole Ratio:	1.28
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	Vanadium-Titanium-Tungsten
Volume of Catalyst (ft³):	169
Form of Catalyst:	ceramic honeycomb
Anticipated Life of Catalyst:	5000
Units:	hours
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	stack NOx analyzer
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No



07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD32 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Comments:

Min reagent charge rate is 0.03 gpm; max reagent charge rate is 0.08 gpm.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD33 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Make:	Peerless
Manufacturer:	Cormetech
Model:	CMHCDET
Minimum Temperature at Catalyst Bed (°F):	825
Maximum Temperature at Catalyst Bed (°F):	855
Minimum Temperature at Reagent Injection Point (°F):	825
Maximum Temperature at Reagent Injection Point (°F):	855
Type of Reagent:	Ammonia
Description:	
Chemical Formula of Reagent:	19% ammonium hydroxide
Minimum Reagent Charge Rate (gpm):	0.1
Maximum Reagent Charge Rate (gpm):	0.1
Minimum Concentration of Reagent in Solution (% Volume):	18
Minimum NOx to Reagent Mole Ratio:	1.1
Maximum NOx to Reagent Mole Ratio:	1.28
Maximum Anticipated Ammonia Slip (ppm):	5
Type of Catalyst:	Vanadium-Titanium-Tungsten
Volume of Catalyst (ft³):	169
Form of Catalyst:	ceramic honeycomb
Anticipated Life of Catalyst:	5000
Units:	hours
Have you attached a catalyst replacement schedule?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Method of Determining Breakthrough:	stack NOx analyzer
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD33 (Selective Catalytic Reduction)  
Print Date: 2/13/2025

Comments:

Min reagent charge rate is 0.03 gpm; max reagent charge rate is 0.08 gpm.

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD34 (Oxidizer (Catalytic))  
Print Date: 2/13/2025

Make:	
Manufacturer:	Synergy
Model:	PMC-DLC-CO
Minimum Inlet Temperature (°F):	600
Maximum Inlet Temperature (°F)	1200
Minimum Outlet Temperature (°F)	600
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.03
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	0.065
Maximum Pressure Drop Across Catalyst (psi):	0.108
Catalyst Material:	Active Ingredients: Platinum, Paladium
Form of Catalyst:	Plate
Description:	
Minimum Expected Life of Catalyst:	5000
Units:	hours
Volume of Catalyst (ft³):	55
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD35 (Oxidizer (Catalytic))  
Print Date: 2/13/2025

Make:	
Manufacturer:	Synergy
Model:	PMC-DLC-CO
Minimum Inlet Temperature (°F):	600
Maximum Inlet Temperature (°F)	1200
Minimum Outlet Temperature (°F)	600
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.03
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	0.065
Maximum Pressure Drop Across Catalyst (psi):	0.108
Catalyst Material:	Active Ingredients: Platinum, Paladium
Form of Catalyst:	Plate
Description:	
Minimum Expected Life of Catalyst:	5000
Units:	hours
Volume of Catalyst (ft³):	55
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

07349 PASSAIC VALLEY SEWERAGE COMMISSION BOP210002 CD36 (Oxidizer (Catalytic))  
Print Date: 2/13/2025

Make:	
Manufacturer:	Synergy
Model:	PMC-DLC-CO
Minimum Inlet Temperature (°F):	600
Maximum Inlet Temperature (°F)	1200
Minimum Outlet Temperature (°F)	600
Maximum Outlet Temperature (°F):	1200
Minimum Residence Time (sec)	0.03
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Minimum Pressure Drop Across Catalyst (psi):	0.065
Maximum Pressure Drop Across Catalyst (psi):	0.108
Catalyst Material:	Active Ingredients: Platinum, Paladium
Form of Catalyst:	Plate
Description:	
Minimum Expected Life of Catalyst:	5000
Units:	hours
Volume of Catalyst (ft³):	55
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	field traverse testing
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

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.		
PT5	NJS 016	Oxygen Production Building 1 & 2 boiler stack	Square	45	100	190	375.0	375.0	375.0	4,000.0	4,000.0	4,000.0	Up	
PT7	NJS 020	Grit and Screening Building 1 & 2 boiler stack	Round	24	23	24	640.0	640.0	640.0	1,247.0	1,247.0	1,247.0	Horizontal	
PT8	NJS 021	Wet Weather Pump Station Building 1 & 2 boiler stack	Round	24	49	360	375.0	375.0	375.0	1,680.0	1,680.0	1,680.0	Up	
PT11	NJS 028	Operations & Maintenance Building 2 & 3 boiler stack	Round	40	43	460	365.0	200.0	450.0	13,726.0	3,000.0	19,500.0	Up	
PT12	NJS 030	Lime Storage Silo #1	Round	8	50	125	70.0	70.0	70.0	375.0	0.0	750.0	Up	
PT13	NJS 031	Lime Storage Silo #2	Round	8	50	125	70.0	70.0	70.0	375.0	0.0	750.0	Up	
PT14	NJS 032	Lime Storage Silo #3	Round	88	50	125	70.0	70.0	70.0	375.0	0.0	750.0	Up	
PT15	NJS 033	Centrifuge Sludge Dewatering Odor Control System Stack	Round	42	40	100	70.0	70.0	70.0	14,842.0	14,842.0	14,842.0	Up	
PT16	NJS 034	Auto-Truck Paint Spray Booth Exhaust Stack	Round	32	24	180	70.0	70.0	80.0	1,640.0	1,640.0	1,640.0	Horizontal	
PT17	NJS 035	Zimpro Odor Control Stack	Round	54	150	90	250.0	250.0	250.0	47,000.0	47,000.0	47,000.0	Up	
PT18	NJS 036	Lime Day Tank #1 Vent	Round	8	50	125	70.0	70.0	70.0	375.0	0.0	750.0	Up	
PT19	NJS 037	Lime Day Tank #2 Vent	Round	8	50	125	70.0	70.0	70.0	375.0	0.0	750.0	Up	
PT20	NJS 038	Filter Press Building Discharge Stack	Round	44	43	50	70.0	70.0	70.0	20,000.0	20,000.0	20,000.0	Up	
PT21	NJS 039	Sludge Storage & Loading Building Stack #1	Round	36	98	50	70.0	70.0	70.0	20,000.0	20,000.0	20,000.0	Up	
PT22	NJS 039	Sludge Storage & Loading Building Stack #2	Round	36	98	50	70.0	70.0	70.0	40,000.0	40,000.0	40,000.0	Up	
PT25	NJS 041	Sludge Heat Treatment #1 Boiler Stack	Round	42	140	280	330.0	278.0	382.0	12,678.0	4,557.0	20,798.0	Up	

New Jersey Department of Environmental Protection  
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT26	NJS 042	Sludge Heat Treatment #2 Boiler Stack	Round	42	140	280	330.0	278.0	382.0	12,678.0	4,557.0	20,798.0	Up	
PT27	NJS 043	Sludge Heat Treatment #3 Boiler Stack	Round	42	140	100	330.0	278.0	382.0	12,678.0	4,557.0	20,798.0	Up	
PT28	NJS 040	Sludge Heat Treatment #4 Boiler Stack	Round	42	140	100	330.0	278.0	382.0	12,678.0	4,557.0	20,798.0	Up	
PT30	BAR SCREENS	Influent Fine Screens Emission	Rectangle	999	999	50	70.0	70.0	70.0	128.0	0.0	256.0	Up	
PT31	GRIT CHANNEL	Grit Channel Emission	Rectangle	999	999	100	70.0	70.0	70.0	128.0	0.0	256.0	Up	
PT32	IPS	Influent Screw Pumps Emission	Rectangle	999	999	315	70.0	70.0	70.0	20.0	0.0	40.0	Up	
PT38	PRIMARIES	Primary Clarifiers Emission	Rectangle	999	999	50	70.0	70.0	70.0	1,730.0	0.0	3,460.0	Up	
PT50	O2TANKS	Oxygenation Tanks Emission	Rectangle	999	999	200	70.0	70.0	70.0	1,845.0	0.0	3,690.0	Up	
PT51	FINALS	Final Clarifiers Emission	Rectangle	999	999	90	70.0	70.0	70.0	5,000.0	0.0	10,000.0	Up	
PT52	RASWAS	Return Sludge Screw Pump Facilities Emission	Rectangle	999	999	590	70.0	70.0	70.0	8.0	0.0	16.0	Up	
PT53	THICKENERS	Gravity Thickeners Emission	Round	999	999	35	70.0	70.0	70.0	630.0	0.0	1,260.0	Up	
PT54	CHORINATION	Chlorination Facilities Emission	Rectangle	999	999	90	70.0	70.0	70.0	300.0	0.0	600.0	Up	
PT55	HYPOTANK1	NaOCl Storage Tank #1	Round	144	40	250	70.0	70.0	100.0	0.5	0.0	1.0	Up	
PT56	HYPOTANK2	NaOCl Storage Tank #2	Round	144	40	250	70.0	70.0	100.0	0.5	0.0	1.0	Up	
PT57	HYPOTANK3	NaOCl Storage Tank #3	Round	144	40	250	70.0	70.0	100.0	0.5	0.0	1.0	Up	
PT58	HYPOTANK4	NaOCl Storage Tank #4	Round	144	40	250	70.0	70.0	100.0	0.5	0.0	1.0	Up	
PT59	HYPOTANK5	NaOCl Storage Tank #5	Round	144	40	250	70.0	70.0	100.0	0.5	0.0	1.0	Up	



New Jersey Department of Environmental Protection  
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT60	NJS044	Centrifuge Facility Hot Water Heaters #1 & 2 Stack	Round	16	44	100	275.0	275.0	275.0	477.0	477.0	477.0	Up	
PT62	NJS045	Scrubber Stack - 1	Round	24	78	200	60.0	50.0	70.0	5,200.0	3,300.0	6,050.0	Up	
PT63	NJS046	Scrubber Stack - 2	Round	24	78	200	60.0	50.0	70.0	5,200.0	3,300.0	6,050.0	Up	
PT64	SCR1800	Odor Control Scrubber	Round	36	56	375	63.0	20.0	106.0	14,100.0	11,500.0	16,200.0	Up	
PT65	SCR1850	Odor Control Scrubber	Round	36	56	375	63.0	20.0	106.0	14,100.0	11,500.0	16,200.0	Up	
PT108	CAT600	CAT600	Round	8	11	232	300.0	300.0	300.0	10,375.0	0.0	20,765.0	Up	
PT109	CATXQ350	CATXQ350	Round	6	10	80	300.0	300.0	300.0	5,000.0	0.0	10,000.0	Up	
PT110	CATXQ200	CATXQ200	Round	4	9	150	300.0	300.0	300.0	3,300.0	0.0	6,600.0	Up	
PT111	MMG130	MMG130	Round	3	7	40	300.0	300.0	300.0	1,600.0	0.0	3,200.0	Up	
PT201	SST1 Stack	Exhaust Stack on SST1	Round	999	49	120	70.0	50.0	90.0	985.4	0.0	985.4	Up	
PT202	SST2 Stack	Exhaust Stack on SST2	Round	999	49	120	70.0	50.0	90.0	985.4	0.0	985.4	Up	
PT205	SST5 Stack	Exhaust Stack on SST5	Round	999	49	120	70.0	50.0	90.0	985.4	0.0	985.4	Up	
PT206	SST6 Stack	Exhaust Stack on SST6	Round	999	49	120	70.0	50.0	90.0	985.4	0.0	985.4	Up	
PT207	GASTANK1	Vehicle Maintenance Facility gasoline storage tank #1 stack	Round	2	12	2	70.0	70.0	70.0	0.5	0.0	1.0	Up	
PT208	GASTANK1	Vehicle Maintenance Facility gasoline storage tank #1 stack	Round	2	12	2	70.0	70.0	70.0	0.5	0.0	1.0	Up	
PT301	NG TURBINE 1	Natural Gas Turbine 1 exhaust stack	Round	120	106	93	830.0	825.0	840.0	358,750.0	301,558.0	472,670.0	Up	
PT302	NG TURBINE 2	Natural Gas Turbine 2 exhaust stack	Round	120	106	93	830.0	825.0	840.0	358,750.0	301,558.0	472,670.0	Up	

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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.		
PT303	NG TURBINE 3	Natural Gas Turbine 3 exhaust stack	Round	120	106	93	830.0	825.0	840.0	358,750.0	301,558.0	472,670.0	Up	
PT304	NG ENGINE 1	Black Start Engine 1 exhaust stack	Round	20	78	153	889.0	881.0	920.0	12,837.0	9,468.0	16,371.0	Up	
PT305	NG ENGINE 2	Black Start Engine 2 exhaust stack	Round	20	78	151	889.0	881.0	920.0	12,837.0	9,468.0	16,371.0	Up	
PT306	DS FP ENGN 1	Flre Pump Engine 1 exhaust stack	Round	5	18	62	986.0	986.0	986.0	1,189.0	1,189.0	1,189.0	Up	
PT307	DS FP ENGN 2	Flre Pump Engine 2 exhaust stack	Round	5	18	62	986.0	986.0	986.0	1,189.0	1,189.0	1,189.0	Up	

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**Emission Unit/Batch Process Inventory**

**U 5 Ox Blrs 1,2 Oxygen Production Building Boilers #1 & #2 (10.4 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	BLR 1 NG	Boiler #1 firing natural gas	Normal - Steady State	E6		PT5	1-02-006-02	0.0	4,380.0		4,000.0	4,000.0	375.0	375.0
OS2	BLR 2 NG	Boiler #2 firing natural gas	Normal - Steady State	E7		PT5	1-02-006-02	0.0	4,380.0		4,000.0	4,000.0	375.0	375.0

**U 7 Scr Blrs 1,2 Grit and Screening Boilers #1 & #2 (1.701 MMBtu/hr each). One boiler is primary, the second is standby.**

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	BLR 1 NG	Boiler #1 firing natural gas	Normal - Steady State	E10		PT7	1-02-006-03 1-02-006-02	0.0	8,736.0		1,247.0	1,247.0	50.0	100.0
OS2	BLR 2 NG	Boiler #2 firing natural gas	Normal - Steady State	E11		PT7	1-02-006-03 1-02-006-02	0.0	8,736.0		1,247.0	1,247.0	50.0	100.0

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**U 8 PumpBlrs 1,2 Wet Weather Pump Station Boilers #1 & #2 (1.714 MMBtu/hr each). One boiler is primary, the second is standby.**

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	BLR 1 NG	Boiler #1 firing natural gas	Normal - Steady State	E12		PT8	1-02-006-03 1-02-006-02	0.0	8,760.0		1,680.0	1,680.0	375.0	375.0
OS2	BLR 2 NG	Boiler #2 firing natural gas	Normal - Steady State	E12		PT8	1-02-006-03 1-02-006-02	0.0	8,760.0		1,680.0	1,680.0	375.0	375.0

**U 9 GasTanks 1,2 Vehicle Maintenance Gasoline Underground Storage Tanks #1 and #2. (Tank 1 - 10,000 gallons & Tank 2 - 6,000 gallons)**

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	GASTANK1	Gasoline Storage UST #1 10,000-gallons	Normal - Steady State	E207		PT207	A25-01-060-200		8,760.0		0.0	1.0	0.0	75.0
OS2	GASTANK2	Gasoline Storage UST #1 6,000-gallons	Normal - Steady State	E208		PT208	A25-01-060-200		8,760.0		0.0	1.0	0.0	75.0

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**U 11 MaintBls 2,3 Operations & Maintenance Building 24.5 MMBTU/hr Boilers #2 & #3 subject to NSPS Dc**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8	BLR 2 NG	Boiler #2 firing natural gas	Normal - Steady State	E106		PT11	1-02-006-02	0.0	8,760.0		3,000.0	6,500.0	200.0	450.0
OS9	BLR 3 NG	Boiler #3 firing natural gas	Normal - Steady State	E107		PT11	1-02-006-02	0.0	8,760.0		3,000.0	6,500.0	200.0	450.0

**U 12 LimeSilo 123 Lime Storage Silos #1, #2 and #3, each with baghouse for particulate control (CD1, CD2 and CD3)**

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	NJS 030	Lime storage silo #1 with baghouse	Normal - Steady State	E19	CD1 (P)	PT12			8,760.0		750.0	750.0	70.0	70.0
OS2	NJS 031	Lime storage silo #2 with baghouse	Normal - Steady State	E20	CD2 (P)	PT13			8,760.0		750.0	750.0	70.0	70.0
OS3	NJS 032	Lime storage silo #3 with baghouse	Normal - Steady State	E21	CD3 (P)	PT14			8,760.0		750.0	750.0	70.0	70.0

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

U 15 CentfgeOdor Centrifuge Sludge Dewatering Odor Control System (CD4 and CD5)

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		Mixing Conveyor #1; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1501	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS2		Mixing Conveyor #2; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1502	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS3		Belt Elevator #1; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1503	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS4		Belt Elevator #2; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1504	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS5		Centrifuge Centrate Screw Conveyor; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1505	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS6		Solids Screw Conveyor; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1506	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS7		Sludge Storage Silo #1; Odor Control Scrubber and Ammonia Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1507	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS8		Sludge Storage Silo #3; Odor Control Scrubber and Ammonia Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1508	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0

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U 15 CentfgeOdor Centrifuge Sludge Dewatering Odor Control System (CD4 and CD5)

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.
OS9		Digested Sludge Wetwell; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1509	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS10		Wetwell #1; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1510	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS11		Wetwell #2; Odor Control Scrubber and Ammonia Scrubber	Normal - Steady State	E1511	CD4 (P) CD5 (S)	PT15			8,760.0				70.0	70.0
OS12		Mixing Conveyor #1; Odor Control Scrubber	Normal - Steady State	E1501	CD4 (P)	PT15			144.0				70.0	70.0
OS13		Mixing Conveyor #2; Odor Control Scrubber	Normal - Steady State	E1502	CD4 (P)	PT15			144.0				70.0	70.0
OS14		Belt Elevator #1; Odor Control Scrubber	Normal - Steady State	E1503	CD4 (P)	PT15			144.0				70.0	70.0
OS15		Belt Elevator #2; Odor Control Scrubber	Normal - Steady State	E1504	CD4 (P)	PT15			144.0				70.0	70.0
OS16		Centrifuge Centrate Screw Conveyor; Odor Control Scrubber	Normal - Steady State	E1505	CD4 (P)	PT15			144.0				70.0	70.0
OS17		Solids Screw Conveyor; Odor Control Scrubber	Normal - Steady State	E1506	CD4 (P)	PT15			144.0				70.0	70.0
OS18		Sludge Storage Silo #1; Odor Control Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1507	CD4 (P)	PT15			144.0				70.0	70.0
OS19		Sludge Storage Silo #3; Odor Control Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1508	CD4 (P)	PT15			144.0				70.0	70.0

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U 15 CentfgeOdor Centrifuge Sludge Dewatering Odor Control System (CD4 and CD5)

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.
OS20		Digested Sludge Wetwell; Odor Control Scrubber	Normal - Steady State	E1509	CD4 (P)	PT15			144.0				70.0	70.0
OS21		Wetwell #1; Odor Control Scrubber	Normal - Steady State	E1510	CD4 (P)	PT15			144.0				70.0	70.0
OS22		Wetwell #2; Odor Control Scrubber	Normal - Steady State	E1511	CD4 (P)	PT15			144.0				70.0	70.0
OS23		Mixing Conveyor #1; Ammonia Scrubber	Normal - Steady State	E1501	CD5 (P)	PT15			144.0				70.0	70.0
OS24		Mixing Conveyor #2; Ammonia Scrubber	Normal - Steady State	E1502	CD5 (P)	PT15			144.0				70.0	70.0
OS25		Belt Elevator #1; Ammonia Scrubber	Normal - Steady State	E1503	CD5 (P)	PT15			144.0				70.0	70.0
OS26		Belt Elevator #2; Ammonia Scrubber	Normal - Steady State	E1504	CD5 (P)	PT15			144.0				70.0	70.0
OS27		Centrifuge Centrate Screw Conveyor; Ammonia Scrubber	Normal - Steady State	E1505	CD5 (P)	PT15			144.0				70.0	70.0
OS28		Solids Screw Conveyor; Ammonia Scrubber	Normal - Steady State	E1506	CD5 (P)	PT15			144.0				70.0	70.0
OS29		Sludge Storage Silo #1; Ammonia Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1507	CD5 (P)	PT15			144.0				70.0	70.0
OS30		Sludge Storage Silo #3; Ammonia Scrubber (Note: When storing Zimpro sludge, this equipment is in U16.)	Normal - Steady State	E1508	CD5 (P)	PT15			144.0				70.0	70.0
OS31		Digested Sludge Wetwell; Ammonia Scrubber	Normal - Steady State	E1509	CD5 (P)	PT15			144.0				70.0	70.0



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**U 15 CentfgeOdor Centrifuge Sludge Dewatering Odor Control System (CD4 and CD5)**

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.
OS32		Wetwell #1; Ammonia Scrubber	Normal - Steady State	E1510	CD5 (P)	PT15			144.0				70.0	70.0
OS33		Wetwell #2; Ammonia Scrubber	Normal - Steady State	E1511	CD5 (P)	PT15			144.0				70.0	70.0

**U 16 Zimpro Odor Zimpro Odor Control System (CD7 and CD8)**

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	SludgeTank#1	Sludge Storage Tank #1, venting to primary RTO, CD7	Normal - Steady State	E1601	CD7 (P)	PT17			8,760.0				250.0	250.0
OS3	SldgDecant#1	Sludge Decant Tank #1, venting to primary RTO, CD7	Normal - Steady State	E1603	CD7 (P)	PT17			8,760.0				250.0	250.0
OS4	SldgDecant#2	Sludge Decant Tank #2, venting to primary RTO, CD7	Normal - Steady State	E1604	CD7 (P)	PT17			8,760.0				250.0	250.0
OS5	SldgDecant#3	Sludge Decant Tank #3, venting to primary RTO, CD7	Normal - Steady State	E1605	CD7 (P)	PT17			8,760.0				250.0	250.0
OS6	SldgDecant#4	Sludge Decant Tank #4, venting to primary RTO, CD7	Normal - Steady State	E1606	CD7 (P)	PT17			8,760.0				250.0	250.0

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U 16 Zimpro Odor Zimpro Odor Control System (CD7 and CD8)

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.
OS7	SldgDecant#5	Sludge Decant Tank #5, venting to primary RTO, CD7	Normal - Steady State	E1607	CD7 (P)	PT17			8,760.0				250.0	250.0
OS8	SldgDecant#6	Sludge Decant Tank #6, venting to primary RTO, CD7	Normal - Steady State	E1608	CD7 (P)	PT17			8,760.0				250.0	250.0
OS9	FiltraPot#1	Filtrate Pot #1, venting to primary RTO, CD7, venting to primary RTO, CD7	Normal - Steady State	E1609	CD7 (P)	PT17			8,760.0				250.0	250.0
OS10	FiltraPot#2	Filtrate Pot #2, venting to primary RTO, CD7	Normal - Steady State	E1610	CD7 (P)	PT17			8,760.0				250.0	250.0
OS11	FiltraPot#3	Filtrate Pot #3, venting to primary RTO, CD7	Normal - Steady State	E1611	CD7 (P)	PT17			8,760.0				250.0	250.0
OS12	FiltraPot#4	Filtrate Pot #4, venting to primary RTO, CD7	Normal - Steady State	E1612	CD7 (P)	PT17			8,760.0				250.0	250.0
OS13	FiltraPot#5	Filtrate Pot #5, venting to primary RTO, CD7	Normal - Steady State	E1613	CD7 (P)	PT17			8,760.0				250.0	250.0
OS14	SldgFeWeWell	Sludge Feed Wetwell, venting to primary RTO, CD7	Normal - Steady State	E1614	CD7 (P)	PT17			8,760.0				250.0	250.0
OS15	FiltraWeWell	Filtrate Wetwell, venting to primary RTO, CD7	Normal - Steady State	E1615	CD7 (P)	PT17			8,760.0				250.0	250.0
OS16	BeltElev#1	Belt Elevator #1, venting to primary RTO, CD7	Normal - Steady State	E1616	CD7 (P)	PT17			8,760.0				250.0	250.0
OS17	BeltElev#2	Belt Elevator #2, venting to primary RTO, CD7	Normal - Steady State	E1617	CD7 (P)	PT17			8,760.0				250.0	250.0
OS18	SludgeSilo#2	Sludge Storage Silo #2, venting to primary RTO, CD7	Normal - Steady State	E1618	CD7 (P)	PT17			8,760.0				250.0	250.0

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**U 16 Zimpro Odor Zimpro Odor Control System (CD7 and CD8)**

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.
OS19	SludgeSilo#4	Sludge Storage Silo #4, venting to primary RTO, CD7	Normal - Steady State	E1619	CD7 (P)	PT17			8,760.0				250.0	250.0
OS20	SludgeSilo#1	Sludge Storage Silo #1 (when storing Zimpro sludge; otherwise in U15), venting to primary RTO, CD7	Normal - Steady State	E1507	CD7 (P)	PT17			8,760.0				250.0	250.0
OS21	SludgeSilo#3	Sludge Storage Silo #3 (when storing Zimpro sludge; otherwise in U15), venting to primary RTO, CD7	Normal - Steady State	E1508	CD7 (P)	PT17			8,760.0				250.0	250.0
OS22	SludgeTank#1	Sludge Storage Tank #1, venting to standby RTO, CD8	Normal - Steady State	E1601	CD8 (P)	PT17			8,760.0				250.0	250.0
OS24	SldgDecant#1	Sludge Decant Tank #1, venting to standby RTO, CD8	Normal - Steady State	E1603	CD8 (P)	PT17			8,760.0				250.0	250.0
OS25	SldgDecant#2	Sludge Decant Tank #2, venting to standby RTO, CD8	Normal - Steady State	E1604	CD8 (P)	PT17			8,760.0				250.0	250.0
OS26	SldgDecant#3	Sludge Decant Tank #3, venting to standby RTO, CD8	Normal - Steady State	E1605	CD8 (P)	PT17			8,760.0				250.0	250.0
OS27	SldgDecant#4	Sludge Decant Tank #4, venting to standby RTO, CD8	Normal - Steady State	E1606	CD8 (P)	PT17			8,760.0				250.0	250.0
OS28	SldgDecant#5	Sludge Decant Tank #5, venting to standby RTO, CD8	Normal - Steady State	E1607	CD8 (P)	PT17			8,760.0				250.0	250.0

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**U 16 Zimpro Odor Zimpro Odor Control System (CD7 and CD8)**

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.
OS29	SldgDecant#6	Sludge Decant Tank #6, venting to standby RTO, CD8	Normal - Steady State	E1608	CD8 (P)	PT17			8,760.0				250.0	250.0
OS30	FiltraPot#1	Filtrate Pot #1, venting to standby RTO, CD8	Normal - Steady State	E1609	CD8 (P)	PT17			8,760.0				250.0	250.0
OS31	FiltraPot#2	Filtrate Pot #2, venting to standby RTO, CD8	Normal - Steady State	E1610	CD8 (P)	PT17			8,760.0				250.0	250.0
OS32	FiltraPot#3	Filtrate Pot #3, venting to standby RTO, CD8	Normal - Steady State	E1611	CD8 (P)	PT17			8,760.0				250.0	250.0
OS33	FiltraPot#4	Filtrate Pot #4, venting to standby RTO, CD8	Normal - Steady State	E1612	CD8 (P)	PT17			8,760.0				250.0	250.0
OS34	FiltraPot#5	Filtrate Pot #5, venting to standby RTO, CD8	Normal - Steady State	E1613	CD8 (P)	PT17			8,760.0				250.0	250.0
OS35	SldgFeWeWell	Sludge Feed Wetwell, venting to standby RTO, CD8	Normal - Steady State	E1614	CD8 (P)	PT17			8,760.0				250.0	250.0
OS36	FiltraWeWell	Filtrate Wetwell, venting to standby RTO, CD8	Normal - Steady State	E1615	CD8 (P)	PT17			8,760.0				250.0	250.0
OS37	BeltElev#1	Belt Elevator #1, venting to standby RTO, CD8	Normal - Steady State	E1616	CD8 (P)	PT17			8,760.0				250.0	250.0
OS38	BeltElev#2	Belt Elevator #2, venting to standby RTO, CD8	Normal - Steady State	E1617	CD8 (P)	PT17			8,760.0				250.0	250.0
OS39	SludgeSilo#2	Sludge Storage Silo #2, venting to standby RTO, CD8	Normal - Steady State	E1618	CD8 (P)	PT17			8,760.0				250.0	250.0
OS40	SludgeSilo#4	Sludge Storage Silo #4, venting to standby RTO, CD8	Normal - Steady State	E1619	CD8 (P)	PT17			8,760.0				250.0	250.0

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**U 16 Zimpro Odor Zimpro Odor Control System (CD7 and CD8)**

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.
OS41	SludgeSilo#1	Sludge Storage Silo #1 (when storing Zimpro sludge; otherwise in U15), venting to standby RTO, CD8	Normal - Steady State	E1507	CD8 (P)	PT17			8,760.0				250.0	250.0
OS42	SludgeSilo#3	Sludge Storage Silo #3 (when storing Zimpro sludge; otherwise in U15), venting to standby RTO, CD8	Normal - Steady State	E1508	CD8 (P)	PT17			8,760.0				250.0	250.0

**U 17 Lime Bin 1,2 Lime Bin #1 and #2, each with baghouse for particulate control (CD9 and CD10)**

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	L Bin #1	Lime Bin #1 with baghouse	Normal - Steady State	E25	CD9 (P)	PT18			4,380.0		750.0	750.0	70.0	70.0
OS2	L Bin #2	Lime Bin #2 with baghouse	Normal - Steady State	E26	CD10 (P)	PT19			4,380.0		750.0	750.0	70.0	70.0

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**U 19 Sludge Bldg Sludge Storage & Loading Building**

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	Sludge bldg	Sludge loading building ventilation system	Normal - Steady State	E28		PT21 PT22			3,120.0		60,000.0	60,000.0	70.0	70.0

**U 20 SldgHeat 1-4 Sludge Heat Treatment Boilers #1 - #4. (67.1 MMBtu/hr each) Only 3 run at once. Firing NG. Subject to NSPS Subparts A & Dc**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	BLR 1 NG	Sludge heat treatment boiler #1 firing natural gas.	Normal - Steady State	E29		PT25	1-02-006-02		8,760.0		4,557.0	20,798.0	278.0	382.0
OS2	BLR 2 NG	Sludge heat treatment boiler #2 firing natural gas.	Normal - Steady State	E30		PT26	1-02-006-02		8,760.0		4,557.0	20,798.0	278.0	382.0
OS3	BLR 3 NG	Sludge heat treatment boiler #3 firing natural gas.	Normal - Steady State	E31		PT27	1-02-006-02		8,760.0		4,557.0	20,798.0	278.0	382.0
OS4	BLR 4 NG	Sludge heat treatment boiler #4 firing natural gas.	Normal - Steady State	E32		PT28	1-02-006-02		8,760.0		4,557.0	20,798.0	278.0	382.0

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**U 21 NaOCl tanks Sodium Hypochlorite (NaOCl) Storage Tanks #1 through #5, 30,000 gallons 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	Tank #1	NaOCl Storage Tank #1	Normal - Steady State	E33		PT55			8,760.0					100.0
OS2	Tank #2	NaOCl Storage Tank #2	Normal - Steady State	E34		PT56			8,760.0					100.0
OS3	Tank #3	NaOCl Storage Tank #3	Normal - Steady State	E35		PT57			8,760.0					100.0
OS4	Tank #4	NaOCl Storage Tank #4	Normal - Steady State	E36		PT58			8,760.0					100.0
OS5	Tank #5	NaOCl Storage Tank #5	Normal - Steady State	E37		PT59			8,760.0					100.0

**U 22 CentHtr 1,2 Centrifuge Facility Hot Water Heaters #1 & #2 (1.6 MMBtu/hr each) Firing NG**

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	Heater #1	Hot Water Heater #1	Normal - Steady State	E38		PT60			8,760.0		477.0	477.0	375.0	375.0
OS2	Heater #2	Hot Water Heater #2	Normal - Steady State	E39		PT60			8,760.0		477.0	477.0	375.0	375.0

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**U 23 FiltPresses Sludge Filter Presses**

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	Filter Press	Sludge Filter Press Operation	Normal - Steady State	E27		PT20			8,760.0		20,000.0	20,000.0	70.0	70.0

**U 24 Paint Booth Vehicle Paint Spray Booth with 1.7 MMBtu/hr air heater (CD6)**

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	Painting	Vehicle Spray Painting	Normal - Steady State	E23	CD6 (P)	PT16			500.0	A	16,400.0	16,400.0	70.0	80.0
OS2	Heater	Air Replacement Unit (1.7 MMBtu/hr, NG) indirect fired	Normal - Steady State	E103	CD6 (P)	PT16		0.0	500.0	C	0.0	17,000.0	90.0	90.0



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U 26   InfFineScr   Influent Fine Screens (Grandfathered)

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	fine screens	Wastewater flow through fine screens.	Normal - Steady State	E51		PT30			8,760.0					

U 27   GritChannels   Grit Channels (Grandfathered)

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	grit channel	Wastewater flow through grit channels.	Normal - Steady State	E52		PT31			8,760.0					

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**U 28 InfScrPumps Influent Screw Pumps (Grandfathered)**

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	screw pumps	Wastewater flow through Influent Screw Pumps	Normal - Steady State	E53		PT32			8,760.0					

**U 34 PrimyClarifs Primary Clarifiers (Grandfathered)**

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	primary clar	Wastewater flow through Primary Clarifiers	Normal - Steady State	E59		PT38			8,760.0					

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**U 46 Oxgetn Tanks Oxygenation Tanks (Grandfathered)**

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	O2 tanks	Wastewater flow through Oxygenation Tanks	Normal - Steady State	E71		PT50			8,760.0					

**U 47 Final Clar Final Clarifiers (Grandfathered)**

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	final clarif	Wastewater flow through Final Clarifiers	Normal - Steady State	E72		PT51			8,760.0					

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**U 48 RetScrPumps Return Sludge Screw Pump Facilities (Grandfathered)**

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	return scr p	Wastewater flow through Return Sludge Screw Pumps	Normal - Steady State	E73		PT52			8,760.0					

**U 49 Grav Thicknr Gravity Thickeners (Grandfathered)**

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	gravity thic	Wastewater flow through Gravity Thickeners	Normal - Steady State	E74		PT53			8,760.0					

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U 50 ClFacilities Chlorination Facilities (Grandfathered)

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	clorination	Wastewater flow through Chlorination Facilities	Normal - Steady State	E75		PT54			8,760.0					

U 54 Centrige 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

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	Cnt1 WS1	Thickening Centrifuge #1 - Wet Scrubber 1 on-line Scrubber 2 for backup	Normal - Steady State	E79	CD11 (P)	PT62	5-01-007-92 3-12-999-99	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS2	Cnt1 WS2	Thickening Centrifuge #1 - Wet Scrubber 2 on-line Scrubber 1 for backup	Normal - Steady State	E79	CD12 (P)	PT63	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS3	Cnt2 WS1	Thickening Centrifuge #2 - Wet Scrubber 1 on-line. Scrubber 2 for backup.	Normal - Steady State	E80	CD11 (P)	PT62	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS4	Cnt2 WS2	Thickening Centrifuge #2 - Wet Scrubber 2 on-line. Scrubber 1 for backup.	Normal - Steady State	E80	CD12 (P)	PT63	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS5	Cnt3 WS1	Thickening Centrifuge #3 - Wet Scrubber 1 on-line. Scrubber 2 for backup.	Normal - Steady State	E81	CD11 (P)	PT62	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS6	Cnt3 WS2	Thickening Centrifuge #3 - Wet Scrubber 2 on-line. Scrubber 1 for backup.	Normal - Steady State	E81	CD12 (P)	PT63	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0

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U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickeners Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

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.
OS7	Cnt4 WS1	Thickening Centrifuge #4 - Wet Scrubber 1 on-line. Scrubber 2 for backup.	Normal - Steady State	E82	CD11 (P)	PT62	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS8	Cnt4 WS2	Thickening Centrifuge #4 - Wet Scrubber 2 on-line. Scrubber 1 for backup.	Normal - Steady State	E82	CD12 (P)	PT63	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS9	Cnt5 WS1	Thickening Centrifuge #5 - Wet Scrubber 1 on-line. Scrubber 2 for backup.	Normal - Steady State	E83	CD11 (P)	PT62	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS10	Cnt5 WS2	Thickening Centrifuge #5 - Wet Scrubber 2 on-line. Scrubber 1 for backup.	Normal - Steady State	E83	CD12 (P)	PT63	3-12-999-99 5-01-007-92	0.0	8,760.0	A	3,300.0	6,050.0	50.0	70.0
OS11	Cnt1 OCS1	Thickening Centrifuge #1 - New Biofilter and Odor Control Scrubber 1 on-line. Odor Scrubber#2 for backup.	Normal - Steady State	E79	CD13 (P)	PT64	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS12	Cnt1 OCS2	Thickening Centrifuge #1 - New Biofilter and Odor Control Scrubber #2 on-line. Odor Scrubber#1 for backup.	Normal - Steady State	E79	CD14 (P)	PT65	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS13	Cnt2 OCS1	Thickening Centrifuge #2 - New Biofilter and Odor Control Scrubber #1 on-line. Odor Scrubber #2 for backup.	Normal - Steady State	E80	CD13 (P)	PT64	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS14	Cnt2 OCS2	Thickening Centrifuge #2 - New Biofilter and Odor Scrubber Scrubber #2 on-line. Odor Scrubber #1 for backup.	Normal - Steady State	E80	CD14 (P)	PT65	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0

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U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS15	Cnt3 OCS1	Thickening Centrifuge #3 - New Biofilter and Odor Control Scrubber #1 on-line. Odor Scrubber #2 for backup.	Normal - Steady State	E81	CD13 (P)	PT64	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS16	Cnt3 OCS2	Thickening Centrifuge #3 - New Biofilter and Odor Control Scrubber #2 On-Line; Odor Scrubber #1 for Backup	Normal - Steady State	E81	CD14 (P)	PT65	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS17	Cnt4 OCS1	Thickening Centrifuge #4 - New Biofilter and Odor Control Scrubber #1 On-Line; Odor Scrubber #2 for Backup	Normal - Steady State	E82	CD13 (P)	PT64	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS18	Cnt4 OCS2	Thickening Centrifuge #4 - New Biofilter and Odor Control Scrubber #2 On-Line; Odor Scrubber #1 for Backup	Normal - Steady State	E82	CD14 (P)	PT65	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS19	Cnt5 OCS1	Thickening Centrifuge #5 - New Biofilter and Odor Control Scrubber #2 On-Line; Odor Scrubber #2 for Backup	Normal - Steady State	E83	CD13 (P)	PT64	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS20	Cnt5 OCS2	Thickening Centrifuge #5 - New Biofilter and Odor Control Scrubber #2 On-Line; Odor Scrubber #1 for Backup	Normal - Steady State	E83	CD14 (P)	PT65	5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS21	TSW1 WS1	Thickener Sludge Wetwell #1 - Wet Scrubber #1 On-Line & Scrubber #2 for Back-Up	Normal - Steady State	E84	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0

**PASSAIC VALLEY SEWERAGE COMMISSION (07349)**  
**BOP210002**

Date: 2/13/2025

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

**U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)**

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.
OS22	TSW1 WS2	Thickener Sludge Wetwell #1 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E84	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS23	TSW2 WS1	Thickener Sludge Wetwell #2 - Wet Scrubber #1 On-Line & Scrubber #2 for Back-Up	Normal - Steady State	E85	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS24	TSW2 WS2	Thickener Sludge Wetwell #2 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E85	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS25	TSW3 WS1	Thickener Sludge Wetwell #2 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E86	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS26	TSW3 WS2	Thickener Sludge Wetwell #3 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E86	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS27	TSW4 WS1	Thickener Sludge Wetwell #4 - Wet Scrubber #1 On-Line & Scrubber #2 for Back-Up	Normal - Steady State	E87	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS28	TSW4 WS2	Thickener Sludge Wetwell #4 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E87	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS29	TSW5 WS1	Thickener Sludge Wetwell #5 - Wet Scrubber #1 On-Line & Scrubber #2 for Back-Up	Normal - Steady State	E88	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0



PASSAIC VALLEY SEWERAGE COMMISSION (07349)

Date: 2/13/2025

BOP210002

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

U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

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.
OS30	TSW5 WS2	Thickener Sludge Wetwell #5 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E88	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS31	TSW6 WS1	Thickener Sludge Wetwell #6 - Wet Scrubber #1 On-Line & Scrubber #2 for Back-Up	Normal - Steady State	E89	CD11 (P)	PT62	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS32	TSW6 WS2	Thickener Sludge Wetwell #6 - Wet Scrubber #2 On-Line & Scrubber #1 for Back-Up	Normal - Steady State	E89	CD12 (P)	PT63	5-01-007-69 5-01-007-92	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS33	TSW1 OCS1	Thickener Sludge Wetwell #1 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E84	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS34	TSW1 OCS2	Thickener Sludge Wetwell #1 - Odor Control Scrubber CD14 on-line	Normal - Steady State	E84	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS35	TSW2 OCS1	Thickener Sludge Wetwell #2 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E85	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS36	TSW2 OCS2	Thickener Sludge Wetwell #2 - New Biofilter and Odor Control Scrubber CD14	Normal - Steady State	E85	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS37	TSW3 OCS1	Thickener Sludge Wetwell #3 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E86	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0

PASSAIC VALLEY SEWERAGE COMMISSION (07349)

Date: 2/13/2025

BOP210002

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

U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)

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.
OS38	TSW3 OCS2	Thickener Sludge Wetwell #3 - New Biofilter and Odor Control Scrubber CD14	Normal - Steady State	E86	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS39	TSW4 OCS1	Thickener Sludge Wetwell #4 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E87	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS40	TSW4 OCS2	Thickener Sludge Wetwell #4 - New Biofilter and Odor Control Scrubber CD14	Normal - Steady State	E87	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS41	TSW5 OCS1	Thickener Sludge Wetwell #5 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E88	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS42	TSW5 OCS2	Thickener Sludge Wetwell #5 - New Biofilter and Odor Control Scrubber CD14	Normal - Steady State	E88	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS43	TSW6 OCS1	Thickener Sludge Wetwell #6 - New Biofilter and Odor Control Scrubber CD13	Normal - Steady State	E89	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS44	TSW6 OCS2	Thickener Sludge Wetwell #6 - New Biofilter and Odor Control Scrubber CD14	Normal - Steady State	E89	CD14 (P)	PT65	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS45	S.Tk1 OCS1	Sludge Storage Tank - Odor Control Scrubber #1 On-Line; Odor Scrubber #2 for Backup	Normal - Steady State	E64	CD13 (P)	PT64	5-01-007-69 5-01-007-92	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0

PASSAIC VALLEY SEWERAGE COMMISSION (07349)

Date: 2/13/2025

BOP210002

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

**U 54 Centruge 1-5 Sludge Thickening Centrifuges #1 through #5, Thickener Sludge Wetwells #1 thru #6 , new sludge storage tank (CD11, CD12, CD13, CD14, and CD15)**

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.
OS46	Sludg StorT2	Sludge Storage Tank - Odor Control Scrubber #2 On-Line; Odor Scrubber #1 for Backup	Normal - Steady State	E64	CD14 (P)	PT64	5-01-007-01	0.0	8,760.0		11,500.0	16,200.0	20.0	106.0
OS47	SludgeTank	Sludge Storage Tank - Wet Scrubber #1 online, Wet Scrubber #2 for backup	Normal - Steady State	E64	CD11 (P)	PT62	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0
OS48	SludgeTank	Sludge Storage Tank - Wet Scrubber #2 online, Wet Scrubber #1 for backup	Normal - Steady State	E64	CD12 (P)	PT63	3-12-999-99 5-01-007-01	0.0	8,760.0		3,300.0	6,050.0	50.0	70.0

**U 101 SST Stack Sludge Pumping Station and Sludge Storage Tanks #1, #2, #5, #6**

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	SST 1	Municipal Digested Sludge	Normal - Steady State	E201		PT201	5-01-007-99	4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS2	SST1	Landfill Leachate	Normal - Steady State	E201		PT201		4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS3	SST2	Municipal Digested Sludge	Normal - Steady State	E202		PT202		4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS4	SST2	Landfill Leachate	Normal - Steady State	E202		PT202		4,380.0	8,760.0		0.0	985.4	50.0	90.0

**PASSAIC VALLEY SEWERAGE COMMISSION (07349)**  
**BOP210002**

Date: 2/13/2025

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

**U 101 SST Stack Sludge Pumping Station and Sludge Storage Tanks #1, #2, #5, #6**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS5	SST5	Municipal Digested Sludge	Normal - Steady State	E205		PT205		4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS6	SST5	Landfill Leachate	Normal - Steady State	E205		PT205		4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS7	SST6	Municipal Digested Sludge	Normal - Steady State	E206		PT206		4,380.0	8,760.0		0.0	985.4	50.0	90.0
OS8	SST6	Landfill Leachate	Normal - Steady State	E206		PT206		4,380.0	8,760.0		0.0	985.4	50.0	90.0

**U 102 EGs Emergency Diesel Generators**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	CAT600	EG CAT600	Normal - Steady State	E108		PT108		0.0	100.0					
OS2	CATXQ350	EG CATXQ350	Normal - Steady State	E109		PT109		0.0	100.0					
OS3	CATXQ200	EG CATXQ200	Normal - Steady State	E110		PT110		0.0	100.0					
OS4	MMG130	EG MMG130	Normal - Steady State	E111		PT111		0.0	100.0					

**PASSAIC VALLEY SEWERAGE COMMISSION (07349)**  
**BOP210002**

Date: 2/13/2025

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

**U 301 NG Turbines Three Natural Gas Turbines**

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	NG Turbine 1	NG Turbine 1 - Testing and Maintenance	Maintenance	E3001	CD31 (P) CD34 (P)	PT301	2-02-002-01	0.0	89.0		301,558.0	472,670.0	825.0	840.0
OS2	NG Turbine 1	NG Turbine 1 - Startup	Startup	E3001		PT301	2-02-002-01	0.0	9.2		166,671.0	361,219.0	881.0	1,046.0
OS3	NG Turbine 1	NG Turbine 1 - Shutdown	Shutdown	E3001		PT301	2-02-002-01	0.0	3.7		166,671.0	361,219.0	881.0	1,046.0
OS5	NG Turbine 2	NG Turbine 2 - Testing and Maintenance	Maintenance	E3002	CD32 (P) CD35 (P)	PT302	2-02-002-01	0.0	89.0		301,558.0	472,670.0	825.0	840.0
OS6	NG Turbine 2	NG Turbine 2 - Startup	Startup	E3002		PT302	2-02-002-01	0.0	9.2		166,671.0	361,219.0	881.0	1,046.0
OS7	NG Turbine 2	NG Turbine 2 - Shutdown	Shutdown	E3002		PT302	2-02-002-01	0.0	3.7		166,671.0	361,219.0	881.0	1,046.0
OS9	NG Turbine 3	NG Turbine 3 - Testing and Maintenance	Maintenance	E3003	CD33 (P) CD36 (P)	PT303	2-02-002-01	0.0	89.0		301,558.0	472,670.0	825.0	840.0
OS10	NG Turbine 3	NG Turbine 3 - Startup	Startup	E3003		PT303	2-02-002-01	0.0	9.2		166,671.0	361,219.0	881.0	1,046.0
OS11	NG Turbine 3	NG Turbine 3 - Shutdown	Shutdown	E3003		PT303	2-02-002-01	0.0	3.7		166,671.0	361,219.0	881.0	1,046.0
OS13	NG Turbine 1	NG Turbine 1 - Storm Preparation	Normal - Steady State	E3001	CD31 (P) CD34 (P)	PT301	2-02-002-01	0.0	474.2		301,558.0	472,670.0	825.0	840.0
OS14	NG Turbine 2	NG Turbine 2 - Storm Preparation	Normal - Steady State	E3002		PT302	2-02-002-01	0.0	474.2		301,558.0	472,670.0	825.0	840.0
OS15	NG Turbine 3	NG Turbine 3 - Storm Preparation	Normal - Steady State	E3003	CD33 (P) CD36 (P)	PT303	2-02-002-01	0.0	474.2		301,558.0	472,670.0	825.0	840.0

**PASSAIC VALLEY SEWERAGE COMMISSION (07349)**  
**BOP210002**

Date: 2/13/2025

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

**U 304 NG Engines Two Emergency Black Start Engines**

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	NG Engine 1	NG Black Start Engine 1 - Testing and Maintenance	Maintenance	E3004		PT304	2-02-002-02	0.0	100.0		9,468.0	16,371.0	881.0	920.0
OS2	NG Engine 2	NG Black Start Engine 2 - Testing and Maintenance	Maintenance	E3005		PT305	2-02-002-02	0.0	100.0		9,468.0	16,371.0	881.0	920.0

**U 306 DS FP Engns Two Emergency Diesel Fire Pump Engines**

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	DS FP Engn 1	Diesel Fire Pump Engn 1	Maintenance	E3006		PT306	2-02-001-02	0.0	100.0		1,189.0	1,189.0	986.0	986.0
OS2	DS FP Engn 2	Diesel Fire Pump Engn 2	Maintenance	E3007		PT307	2-02-001-02	0.0	100.0		1,189.0	1,189.0	986.0	986.0

Date: 2/13/2025

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

**Group NJID:** GR1 NSPS A & Dc

**Members:**

Type	ID	OS	Step
U	U 11	OS0 Summary	
U	U 20	OS0 Summary	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** common NSPS requirements

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

**Operating Circumstances:**

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

**Group NJID:** GR2 EJ

**Members:**

Type	ID	OS	Step
U	U 102	OS1 CAT600	
U	U 11	OS0 Summary	
U	U 20	OS0 Summary	
U	U 301	OS0 Summary	
U	U 304	OS0 Summary	
U	U 306	OS0 Summary	
U	U 5	OS0 Summary	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** EJ Special Conditions

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

**Operating Circumstances:**





# State of New Jersey

## DEPARTMENT OF ENVIRONMENTAL PROTECTION

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*Commissioner*

IN THE MATTER OF

**PASSAIC VALLEY SEWERAGE  
COMMISSION**

**Project ID # 07329, BOP 190004**

**Title V Air Operating Permit  
Modification and Renewal  
BOP 210002, Standby Power  
Generating Facility**

**Environmental Justice Decision and  
Imposition of Special Conditions  
pursuant to  
Administrative Order No. 2021-25**

The Passaic Valley Sewerage Commission (PVSC or Applicant) comes before the New Jersey Department of Environmental Protection (Department) in the above-referenced matter for a determination of its compliance with the environmental justice review process set forth in Department Administrative Order No. 2021-25 (AO).

The AO was issued in 2021 for the purpose of guiding environmental justice reviews during the Department's formal process to develop, propose, and adopt rules to effectuate the Environmental Justice Law, N.J.S.A. 13:1D-157 (EJ Law). The Environmental Justice Rules, N.J.A.C. 7:1C (EJ Rules), became effective on April 17, 2023. For applications deemed complete for Department review prior to April 17, 2023, environmental justice review in accordance with the AO is a prerequisite to an applicant's continued pursuit of a covered permit. The AO requires an applicant to undertake enhanced community engagement, assess facility impacts to environmental and public health stressors, and implement appropriate control measures to avoid or minimize adverse impacts from covered facilities that are proposed to operate in overburdened communities.

PVSC's application was deemed complete for Department review on July 2, 2021, environmental justice review in accordance with the AO has been completed, and this decision follows.

### **1. Background**

PVSC operates one of the largest sewer systems in the United States, including a secondary wastewater treatment plant situated along Newark Bay at 600 Wilson Avenue in the City of Newark, Essex County, New Jersey. The treatment plant handles sewage generated in the PVSC district comprised of forty-eight municipalities across five counties in northeastern New Jersey. In short, PVSC provides daily sewage treatment by separating and disposing of biosolids, treating reclaimed wastewater to applicable water quality standards, and discharging the treated wastewater

into Newark Bay and New York Harbor.<sup>1</sup> This critical infrastructure is subject to Department regulation and oversight as the proper treatment of sewage is vital to preventing disease, improving public and environmental health, and maintaining the recreational, commercial, and natural resource benefits of waterways into which sewage treatment plant effluent is discharged.

In the present application, PVSC seeks to amend its Title V Air Operating Permit<sup>2</sup> to authorize the construction and operation of an on-site emergency standby power generating facility, the pursuit of which was motivated by PVSC's experience during Superstorm Sandy in 2012.<sup>3</sup>

Superstorm Sandy resulted in severe flooding of the sewage treatment plant and caused PVSC to lose both primary and backup power from its utility provider, PSE&G. Without power, the sewage treatment plant could not process wastewater flows or pump out floodwaters, triggering a diversion of approximately 840 million gallons of raw sewage into the Passaic River and Newark Bay and reports of sewage backups in nearby residences. Such a considerable discharge increases public health risks due to the numerous pathogens found in raw sewage, and such discharges exacerbate environmental and public health stressors known to adversely affect overburdened communities.

PVSC estimates that if it were forced to shut down again due to loss of power during a similar storm event, street-level flooding of raw sewage will likely occur in Newark, Bayonne, and Jersey City, potentially impacting thousands of residents.

In the aftermath of Superstorm Sandy and in accordance with Federal Emergency Management Agency (FEMA) guidance to implement resilience measures to protect critical infrastructure against 500-year storm events, PVSC worked with FEMA to develop a hazard mitigation proposal to protect against operational impacts from storm surge and power loss. The PVSC proposal included construction of over 14,000 linear feet of flood walls, reconfiguration of facility drainage systems, installation of flood water pumps, and the addition of an on-site emergency standby power generating facility (SPGF) capable of providing backup electrical power in the event of grid failure or other loss of power from its provider, PSE&G. Pursuant to the National Environmental Policy Act, FEMA issued a Finding of No Significant Impact concerning the PVSC hazard mitigation proposal in August 2014.

As part of the record in this matter, PVSC submitted documentation of PSE&G representations, including citations to Section 13.1 of the PSE&G Tariffs for Electric and Gas Service, that, despite making its own grid resilience improvements, PSE&G could not guarantee continuity of service in the event of extreme weather-related conditions, accidents, and equipment failure or damage.

On January 27, 2020, PVSC applied to the Department to modify its existing permit to authorize the construction and operation of the proposed SPGF. The SPGF would, in the event of a major storm event threatening energy reliability, ensure that the sewage treatment plant can continue to

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<sup>1</sup> PVSC also provides wastewater treatment services to entities outside its district, whereby PVSC accepts and treats sewage sludge received from outside its sewer service area.

<sup>2</sup> PVSC's existing operations exceed the major source thresholds under the Air Pollution Control Act. As required by N.J.A.C. 7:27-22, PVSC holds an existing Title V Permit from the Department. That permit does not, however, currently authorize the construction or operation of the proposed on-site emergency standby power generating facility.

<sup>3</sup> Superstorm Sandy (a/k/a Hurricane Sandy) was a Category 3 Atlantic hurricane that affected the coastal Mid-Atlantic region of the United States in late October 2012, causing widespread power outages and unprecedented damage in New Jersey.





operate with full treatment capabilities to ensure it: (1) meets its permit conditions; (2) prevents backup of raw wastewater in the collection systems of PVSC's forty-eight member communities; and (3) avoids discharging untreated wastewater to nearby waterways.

PVSC subsequently withdrew and resubmitted applications on February 4, 2020, January 14, 2021, and June 10, 2021, modifying the project to reduce air emissions and improve efficiency. On July 2, 2021, PVSC submitted the present application, which was then declared complete for review.

## **2. EJ Review Applicability**

Consistent with the EJ Law, the environmental justice review process under the AO applies where three specific criteria are present: (1) the proposed new or existing facility is one of eight (8) specific facility types identified in the rules (e.g., major air sources, solid waste facilities); (2) the applicant seeks an individual permit under applicable Department regulations; and (3) the facility is located or proposed to be located, in whole or in part, in an overburdened community.

Here, the proposed project is subject to environmental justice review because the facility is: (1) a major air source; (2) seeking to modify its Title V Permit; and (3) is located in an overburdened block group due to percentage of population that qualifies as low income and minority as shown on the Department's Environmental Justice Mapping, Assessment and Protection Tool (EJMAP).

## **3. Public Process**

The environmental justice review process under the AO requires enhanced public notice, an advanced public hearing, and community engagement to foster residents' meaningful participation in a permitting process that could affect their community, public health, and environment.

PVSC provided opportunities for meaningful participation by the overburdened community and general public, including by completing the following:

- PVSC posted a public notice on its website on March 30, 2022, and made hard copies of its permit application and compliance statement available at the Newark Public Library, Jersey City Public Library, Paterson Public Library, Johnson Public Library, and Elizabeth Public Library.
- PVSC held a dedicated public hearing, with at least thirty (30) days advanced notice, to present the project summary and receive comments from community members. The hearing was held virtually on April 26, 2022. At least 202 members of the public attended the virtual hearing. A transcript of the hearing was provided to the Department on May 5, 2022, and was posted on the Department's website.
- A written public comment period was held open for over sixty (60) days, from April 1, 2022, through June 3, 2022. A total of 499 comments were received, including 446 written comments and 53 oral comments. All comments were provided to the Department on September 9, 2022, and were posted on the Department's website.

PVSC provided a "Response to Comments" document to the Department on September 9, 2022, and it is posted on the Department's website.



- The Department's additional comments, provided on December 22, 2022, and PVSC's further Response to Comments, provided January 11, 2023, were both also posted on the Department's website.

Consistent with AO environmental justice review process, PVSC submitted a final compliance statement on March 30, 2022, and held a virtual public hearing on April 26, 2022. At the public hearing, Spanish and Portuguese translations and closed captions were available to the public. PVSC received comments following that public hearing and submitted their Response to Public Comments on September 9, 2022. Following feedback from the Department regarding the Response to Public Comment document, PVSC submitted additional responses on December 22, 2022. Thereafter, in a letter dated June 15, 2023, the Ironbound Community Corporation, the New Jersey Environmental Justice Alliance, and Earthjustice articulated concerns that approval of PVSC's application could constitute discrimination on the basis of race, color or national origin in violation Title VI of the federal Civil Rights Act of 1964. Additionally, in letters dated April 26, 2022, March 17, 2023, and April 25, 2024, the elected representatives of State Legislative District 29 articulated their concerns that the proposed SPGF would adversely affect the overburdened community and requested that PVSC withdraw its permit application.

#### **4. Proposed Project and Permits Sought**

As proposed by PVSC, the standby power generating facility includes five components:

1. Three (3) 24 MW natural gas combustion turbine generators (CTGs) for emergency power generation, with state-of-the-art air pollution control equipment;
2. Two 2-MW black start natural gas engine generators (BSGs) to jump start the CTGs in the event of power loss;
3. Three electric motor driven fuel gas reciprocating compressors to maintain operational pressure throughout the system;
4. Two 164-kW diesel-powered emergency fire pump engines (FPE) for fire suppression; and
5. One 10,000-gallon aqueous ammonia (19% ammonia solution) storage tank for the air pollution control equipment.

In active emergencies, PVSC proposes to operate up to two of the CTGs for the duration of the emergency, with the third reserved for redundancy. Similarly, PVSC proposes to operate only one BSG and FPE during emergencies, with the second BSG and FPE reserved for redundancy.

PVSC's initial January 2020 submission sought authorization to operate the SPGF under four (4) scenarios:

<b>Operational Scenario</b>	<b>Estimated Annual Operations (hours)</b>
Storm Preparation <i>48 hours prior to a storm, 10 storms</i>	480 hours (two CTGs)/980 hours total
Testing and Maintenance	100 hours (three CTGs)/300 hours total
Demand Response <i>operation during grid peaks to offset load</i>	12 hours (two CTGs)/24 hours total
Peak Load Management <i>sell power back to grid</i>	360 hours (two CTGs)/720 hours total
<b>Estimated Annual Operating Hours: 2,004 hours total (~5 hours daily)</b>	





In its revised application of July 2, 2021, PVSC removed the request for peak load management authorization, reducing the maximum allowable operating hours by approximately 46%:

Operational Scenario	Estimated Annual Operation (hours)
Storm Preparation	480 hours (two CTGs)/980 hours total
Testing and Maintenance	100 hours (three CTGs)/300 hours total
Demand Response (operation during grid peaks to offset load)	12 hours (two CTGs)/24 hours total
<b>Estimated Annual Operating Hours: 1,285 hours total (~3.5 hours daily)</b>	

After submission of the July 2021 revision, PVSC further agreed to remove the Demand Response hours (24) and reduced the number of hours allocated for testing and maintenance from 100 hours per CTG to 96 hours per CTG or 288 hours total. As revised, the estimated annual operating hours would be 1,248 hours total (~3.4 hours daily).

In the absence of a major storm event, there would be no need for storm preparation emergency operation and the SPGF would run a maximum of 288 hours annually (< 1 hour daily).

As revised, addition of the SPGF if operated to its full potential to emit under emergency conditions, would increase facility-wide emissions as listed in the following tables:

TABLE 1A	Facility's Potential Emissions (tons per year) <i>maximum allowable emissions, non-emergency</i>									
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)	CO <sub>2e</sub> (total)
Current Permit	80.8	73.6	104	24.9	14.1	15.1	N/A	N/A	15.7	287,000
Proposed Modification	82.1	75.8	108.1	25.6	16.9	17.9	2.78	N/A	16.0	310,000
Change (+ / -)	+1.34	+2.21	+4.09	+0.67	+2.79	+2.78	+2.78	0	+0.27	+23,000

VOC Volatile Organic Compounds  
 NO<sub>x</sub> Nitrogen Oxides  
 CO Carbon Monoxide  
 SO<sub>2</sub> Sulfur Dioxide  
 TSP Total Suspended Particulates

PM<sub>10</sub> Particulates under 10 microns  
 PM<sub>2.5</sub> Particulates under 2.5 microns  
 Pb Lead  
 HAPs Hazardous Air Pollutants  
 CO<sub>2e</sub> Carbon Dioxide equivalent

TABLE 1B	Facility's Potential Emissions (tons per year) <i>maximum allowable emissions, non-emergency</i>									
	Acet	Acrol	Acryl	NH <sub>3</sub>	Benz	Buta	Chlor	Dichlo	Eth2B	Eth2C
Current Permit	0.3	0	0.04	0	0.39	0.412	4.42	2.52	0	1.84
Proposed Permit	0.3	0.011	0.04	1.31	0.39	0.412	4.42	2.52	0.000091	1.84
Change (+ / -)	0	+0.011	0	+1.31	0	0	0	0	+0.000091	0

Acet Acetaldehyde  
 Acrol Acrolein  
 Acryl Acrylonitrile  
 NH<sub>3</sub> Ammonia  
 Benz Benzene

Buta Butadiene (1,3-)  
 Chlor Chloroform  
 Dichlo Dichlorobenzene (1,4-)  
 Eth2B Ethylene dibromide  
 Eth2C Ethylene dichloride



TABLE 1C	Facility's Potential Emissions (tons per year) maximum allowable emissions, non-emergency						
	Form	HCl	Phen	Styre	Tetra	Vinyl	Xyle
Current Permit	0.25	1.06	0.051	1.37	0.076	0.1	2.84
Proposed Permit	0.51	1.06	0.051	1.37	0.076	0.1	2.84
Change (+ / -)	+0.26	0	0	0	0	0	0

Form Formaldehyde  
 HCl Hydrogen chloride  
 Phen Phenol  
 Styre Styrene

Tetra Tetrachloroethane (1,1,2,2-)  
 Vinyl Vinyl acetate  
 Xyle Xylene

Pursuant to the AO, PVSC was required to engage directly with individuals in the host overburdened community and solicit concerns regarding environmental or public health stressors posed by the project. During this engagement process, community members questioned the need for on-site emergency backup generation and the availability of renewable energy alternatives. In response, PVSC considered the feasibility of several additional alternatives to accomplish the core purpose of the proposed SPGF (*i.e.*, provision of reliable backup energy generation) before proceeding with the current proposal.

First, PVSC considered the option of connecting an alternative utility feeder to provide power to its facility. A utility feeder is a connection from the electric grid to the facility to provide electricity. PVSC did not pursue this option because it would not have satisfied the need for reliability in the event of a transmission grid failure as the alternative utility feeder would likely face the same outage risk as the existing utility connections.

Second, PVSC considered the feasibility of on-site, wind, battery, and solar generated electricity to meet its backup energy generation needs. PVSC submitted that it was not feasible to satisfy its full backup power need through renewable means due largely to spatial limitations. For example, height limitations given the facility's proximity to Newark Liberty International Airport, together with unreliable onshore wind patterns, generally render on-site wind power generation infeasible at the scale required. Further, PVSC estimates that 14 acres of property would be required to house batteries sufficient to provide the necessary 34 MW backup generation capacity,<sup>4</sup> which land area is not available at or adjacent to the site. Similarly, spatial limitations render solar power insufficient as a total replacement for natural gas-fired SPGF.

However, to reduce total potential emissions from the SPGF, it is feasible to install 5 MW of battery storage capacity at the facility, which would be capable of providing power for up to two hours, affording PVSC the ability to restart sewage treatment plant operations in the event of a complete loss of power (black start capability). Such supplemental battery capacity would also diversify the source of the SPGF's power, thereby reducing on-site facility electricity usage, and increasing resiliency during storms or other emergency events. Similarly, while on-site solar would

<sup>4</sup> The PVSC sewage treatment plant has a historical average and maximum electrical power demand of 23MW and 28 MW, respectively. PVSC has designed the proposed project to meet a demand of 34 MW to accommodate the implementation of new flood mitigation measures. The CTGs have been sized at 28 MW each to guarantee their ability to meet the 34-MW demand under all conditions including higher temperatures, at which a turbine's capacity to produce power is sharply reduced. The CTGs are designed to ensure production of at least 17 MW each at ambient temperatures of 99+ degrees Fahrenheit.





not provide the necessary firm capacity for sewage treatment plant operation, based on available on-site space, PVSC could supplement and further diversify its power supply through the addition of 5 MW of on-site solar generation.

Third, PVSC considered the feasibility of off-site SPGF alternatives, which PVSC contends would present similar limitations as connecting an alternative utility feeder. PVSC submits that the feasibility and cost of off-site property acquisition, barriers to off-site construction, and transmission reliability between sites support its contention. However, PVSC represented that it will explore additional adjacent, remote, and grid purchased solar power to reduce need and diversify supply. Such commitment would be in addition to PVSC's installation of all technically feasible on-site solar.

Finally, under the environmental justice review process, PVSC was required to evaluate facility-wide emissions and identify opportunities to avoid or minimize environmental or public health stressors in its host overburdened community. This assessment revealed that mandatory emissions reductions elsewhere on-site are feasible and readily achievable. Specifically, PVSC would implement an environmental justice compliance plan that includes the removal of the following existing combustion equipment and pursuit of other upgrades that, taken together, would reduce overall facility-wide emissions of air pollutants:

1. Removal of Operations and Maintenance Building Natural Gas Boilers No. 2 and No. 3;
2. Removal of the Head End Emergency Diesel Generator;
3. Removal of two Natural Gas Oxygen Production Boilers;
4. Removal of two Natural Gas Grit and Screening Boilers;
5. Installation of State-of-the-Art air pollution control equipment for CO, NO<sub>x</sub>, and VOCs to the four currently uncontrolled Natural Gas Sludge Heat Treatment ("Zimpro") Boilers;
6. Installation of up to 5 MW of solar panels at the PVSC Facility site; and
7. Installation of up to 5 MW of battery storage capacity (mitigate need for black start capability and supplement operating electricity).

## **5. Department Review and Decision**

### *Analysis*

As explained above, PVSC's 2021 application preceded the Department's 2023 adoption of the EJ Rules, which direct applicants to consider initial screening criteria as presented below. As a factual matter, however, the Department notes that the host overburdened community is subject to adverse cumulative environmental and public health stressors, including a density of permitted air pollution sites more than five times greater than the relevant point of geographic comparison and adverse stressors related to concentrated areas of air pollution, as each are defined by the EJ Rules.

Combined Stressor Total	
<b>Block Group Value: Combined Stressor Total</b>	<b>23</b>
County	14
State	13
<b>Geographic Point of Comparison</b>	<b>13</b>
<b>Adverse Cumulative Stressors</b>	<b>Yes</b>



<b>Concentrated Areas of Air Pollution</b>					
<b>Stressor</b>	<b>Block Group Value</b>	<b>County Non OBC 50th</b>	<b>State Non OBC 50th</b>	<b>Geographic Point of Comparison</b>	<b>Adverse Stressor</b>
<b>Ground-Level Ozone (3-year average days above standard)</b>	<b>0.594</b>	0.333	0.999	<b>0.333</b>	<b>Yes</b>
<b>Fine Particulate Matter (PM 2.5) (3-year average days above standard)</b>	<b>0.536</b>	0.667	0.333	<b>0.333</b>	<b>Yes</b>
<b>Cancer Risk from Diesel Particulate Matter (estimated cancer risk/million)</b>	<b>240.067</b>	153.792	82.000	<b>82.000</b>	<b>Yes</b>
<b>Cancer Risk from Air Toxics Excluding Diesel Particulate Matter (estimated cancer risk/million)</b>	<b>57.575</b>	44.808	33.994	<b>33.994</b>	<b>Yes</b>
<b>Non-cancer Risk from Air Toxics (Combined Hazard Quotient)</b>	<b>6.864</b>	3.820	1.841	<b>1.841</b>	<b>Yes</b>

<b>Density/Proximity Stressors</b>					
<b>Stressor</b>	<b>Block Group Value</b>	<b>County Non OBC 50th</b>	<b>State Non OBC 50th</b>	<b>Geographic Point of Comparison</b>	<b>Adverse Stressor</b>
<b>Emergency Planning Sites (sites/square mile)</b>	<b>0.8</b>	0.17	0.05	<b>0.05</b>	<b>Yes</b>
<b>Permitted Air Sites (sites/sq. mile)</b>	<b>4.65</b>	1.5	0.8	<b>0.8</b>	<b>Yes</b>

In reviewing PVSC's submission pursuant to the AO, the Department evaluated whether PVSC has taken measures sufficient to: (1) avoid adverse impacts to environmental and public health stressors from the proposed facility while achieving its primary purpose; (2) minimize adverse impacts that could not be fully avoided while achieving the primary purpose of the proposed facility; and (3) reduce other existing environmental and public health stressors affecting the overburdened community through additional on-site or off-site actions that improve environmental or public health conditions.

First, the Department evaluated PVSC's efforts to avoid adverse environmental and public health stressors while considering the primary purpose of the proposed facility, *i.e.*, to provide reliable backup power that would enable the continued treatment of sewage in the event of a power failure. To that end, the Department has determined that, while a no-build alternative would fully avoid the emission of air pollutants from the SPGF, the no-build alternative could compromise the essential services provided by the sewage treatment plant during an emergency storm event, including services for the host overburdened community, which are vital to preventing disease, improving public and environmental health, and maintaining the recreational, commercial, and natural resource benefits of waterways into which sewage treatment plant effluent is discharged.





The Department also reviewed PVSC's assessment of off-site backup energy alternatives, which PVSC presented as infeasible given that each would rely upon transmission solutions subject to existing vulnerabilities. As the record does not contain additional feasible, non-speculative potential alternatives to meet the project's primary purpose, the Department has found PVSC's analysis sufficient insofar as the proposed project is intended to ensure off-site disruptions in electric generation do not result in a loss of the sewage treatment plant's capacity to operate and fulfill its primary purpose of protecting public health, safety and the environment by avoiding the backup and discharge of untreated sewage in the event of a power failure.

Second, the Department evaluated measures that could minimize potential adverse environmental and public health stressors. To this end, it is clear that several mandatory emissions reduction measures are feasible and readily achievable to reduce the impact of SPGF operations upon environmental and public health stressors affecting the host overburdened community. These measures include: (1) applying state-of-the-art air pollution control equipment to the CTGs to reduce Oxides of Nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and Volatile Organic Compounds (VOCs), including the selective catalytic reduction (SCR) and oxidation catalyst (OC) control equipment; (2) restricting use of the SPGF to emergency operation, emergency preparation, and related maintenance uses only; (3) supplementing the black start natural gas engine generators with 5 MW of on-site battery storage to allow PVSC to start the CTGs in the event of a total loss of utility power, which would make use of the black start natural gas engine generators necessary only if the batteries fail.

More specifically, the proposed permit modification involves the installation and intermittent use of several new significant source operations:<sup>5</sup>

- Three natural gas-fired 28MW CTGs, only two of which would operate at a time. The exhaust of each CTG would be treated with SOTA air pollution equipment train consisting of an oxidation catalyst (OC) and selective catalytic reduction (SCR).
- Two 2MW natural gas-fired black start generators, only one of which would operate at a time to start the CTGs without utility electricity supply.
- Two 164-kW diesel fire pump engines, only one of which would operate at a time to pump water for fire suppression if hydrant pressure is not available.
- One 10,000-gallon aqueous ammonia (19% ammonia solution) storage tank for the SCR air pollution control equipment.

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<sup>5</sup> "Significant source operations" have specific definitions for minor (N.J.A.C. 7:27-8) and major (N.J.A.C. 7:27-22) sources of air pollution. For explanatory purposes here, a significant source can be understood as a piece of equipment that must be included in an emission unit or batch process in an air permit to have specific conditions and requirements applied. Such conditions could include monitoring, recordkeeping, operations limits, and, most importantly, emission limits. Newly constructed, reconstructed, or modified equipment and control apparatus that constitute a significant source operation shall incorporate advances in the art of air pollution control as developed for the kind and amount of air contaminant emitted by the applicant's equipment and control apparatus as provided at N.J.A.C. 7:27-8.12 and N.J.A.C. 7:27-35.

"Insignificant source," as the name implies, is any source of air emissions that does not meet the definition of a significant source. In the case of a Title V (major source) facility, insignificant sources located at the facility are also listed in the permit, but operating parameters or emission limits are generally not applied to the insignificant sources. Emission estimates may be aggregated at a facility-wide level for informational purposes. In the case of preconstruction permit (minor source) facility, insignificant sources are not listed or identified in the permit unless the insignificant source is integrated into an air pollution release point with a significant source.



The Department considered each of the proposed emission reduction measures in turn:

- (1) The Selective Catalytic Reduction (SCR) would reduce NO<sub>x</sub> and CO emissions more effectively than the dry low-NO<sub>x</sub> (DLN) combustion technique that is typical for simple-cycle emergency standby turbines. Here, the SCR is designed to achieve a steady-state NO<sub>x</sub> emission rate of 2.5 ppmvd (parts per million by volume, dry) (at 15% oxygen). The oxidation catalyst (OC) is designed to achieve a final CO emission rate of 3 ppmvd and VOC emission rate of 4 ppmvd, for steady-state operation (at 15% oxygen).
- (2) Eliminating use of the SPGF for utility peak shaving avoids 700 hours of operation, further reducing potential emissions.
- (3) Eliminating use of the SPGF for Demand Response avoids 24 hours of operation, further reducing emissions.
- (4) Installing on-site battery storage for the black start generators will reduce emissions by ensuring that the BSGs are not put into use unless necessary (*i.e.*, if the batteries fail).<sup>6</sup>

Additionally, the Department notes that installation of SOTA air pollution equipment would reduce NO<sub>x</sub> and CO emission rates below the thresholds established by N.J.A.C. 7:27-8, Appendix 1, Table B, resulting in emissions lower than the Department's Major New Source Review Thresholds of 100 tons/year (and 25 tons/year for NO<sub>x</sub> & VOCs).

Accordingly, the Department has found the minimization measures sufficient insofar as they serve to reduce potential emissions from the SPGF as enumerated below.

TABLE 2	Effect of Minimization Measures on SPGF Potential Emissions (tons per year)									
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)	CO <sub>2</sub> e (total)
Potential SPGF Emissions <i>as proposed prior to below minimization measures</i>	2.28	29.6	62.5	1.13	4.67	4.65	4.65	0	2.28	39,000
SCR and OC on CTEs <sup>7</sup>	0	-26.0	-54.6	0	0	0	0	0	0	0
Eliminating Peak Shaving	-0.40	-0.63	-1.10	-0.22	-0.92	-0.92	-0.92	0	-0.04	-7,670
Eliminating PJM Demand Response <sup>8</sup>	-0.04	-0.04	-0.27	-0.01	-0.05	-0.05	-0.05	0	0	-442
Change (+ / -)	1.84	2.92	6.54	0.89	3.70	3.68	3.68	0	2.24	30,888

<sup>6</sup> This represents an approach to limit the use of the BSGs during emergencies but would not reduce the potential emissions necessary for testing and maintenance of the units.

<sup>7</sup> These values represent the difference between uncontrolled emissions and emissions using state-of-the-art (SOTA) controls. As the Department would have required SOTA controls were they not proposed, the Department does not find that a commitment to SOTA would itself constitute a significant minimization effort pursuant to the AO.

<sup>8</sup> These values represent the reduction in potential emissions from the elimination of the PJM demand response without reducing the potential emissions necessary for testing and maintenance of the units.





Third, the Department evaluated additional on-site mandatory emission reductions that could improve environmental and public health stressors affecting the overburdened community. These reductions include:

1. Removal of Operations and Maintenance (O&M) Building Natural Gas Boilers #2 and #3;
2. Removal of the Head End Emergency Diesel Generator;
3. Removal of two Natural Gas Oxygen Production Boilers;
4. Removal of two Natural Gas Grit and Screening Boilers;
5. Installation of air pollution control equipment for CO, NO<sub>x</sub>, and VOCs to the four currently uncontrolled Natural Gas Sludge Heat Treatment (“Zimpro”) Boilers;
6. Installation of up to 5 MW of solar panels at the PVSC Facility site; and
7. Installation of up to 5 MW of battery storage capacity to offset the need for black start capability and supplement operating electricity.

PVSC estimates that these additional on-site measures would reduce facility-wide emissions of air pollutants, which estimates the Department finds reasonable, as follows:

TABLE 3	Effect of Facility-wide Mandatory Emission Reductions (tons per year)									
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)	CO <sub>2</sub> e (total)
Remove O&M Building Boilers	-0.11	-0.89	-1.01	-0.02	-0.19	-0.19	-0.19	0	0	-2,965
Remove 600-kW Engine Generator	-0.01	-0.03	-0.02	0	0	0	0	0	0	-3.3
Remove 2 Oxygen Production Boilers	-0.01	-0.16	-0.14	0	-0.02	-0.02	-0.02	0	0	-185
Remove 2 Grit and Screening Boilers	0	-0.17	-0.14	0	-0.02	-0.02	-0.02	0	0	-210
Add SCR and OC to Zimpro Boilers	-1.17	-10.3	-3.42	0	0	0	0	0	0	0
5% H <sub>2</sub> in CTG Fuel	-0.01	0	-0.12	0	-0.01	-0.01	-0.01	0	0	-1,183
5 MW On-Site Solar Panels	0	0	0	0	0	0	0	0	0	-3,883
5 MW / 10 MWh Modular Batteries for Peak Load Management	0	0	0	0	0	0	0	0	0	-371
Change (+ / -)	-1.31	-11.55	-4.85	-0.02	-0.24	-0.24	-0.24	0	0	-8,800.3

Additionally, noting that operation of the SPGF may contribute to the facility’s greenhouse gas emissions, PVSC has proposed to implement alternative fuel sources to supplement and partially replace its natural gas fired equipment, as well as implement renewable options for fuel sources as they become technologically feasible.



In summary, when considering the only regular operation of the SPGF proposed to be authorized, (*i.e.*, 288 hours per year for testing and maintenance to ensure emergency response readiness) and the proposed facility-wide reductions, a net overall reduction in the emission of air pollutants from the facility is projected, as follows:

TABLE 4	Quantification of Net Impact of Additional Facility-wide Emission Reductions (tons per year)									
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)	CO <sub>2e</sub> (total)
Maximum SPGF maintenance operations (non-emergency)	0.48	0.78	2.24	0.16	0.68	0.66	0.66	0	0.18	5,553
Facility-wide Reductions	-1.31	-11.55	-4.85	-0.02	-0.24	-0.24	-0.24	0	0	-11,130.3
Net Emissions or Reduction (+/-)	-0.83	-10.77	-2.61	0.14	0.44	0.42	0.42	0	0.18	-5,577.3

### Conclusion

The Department has reviewed the information provided by PVSC and third parties throughout the environmental justice review process, including, but not limited to, PVSC's Compliance Statement, public comments, PVSC's Response to Comments, details provided in response to the Department's requests for clarification, and other information relevant to this decision. Based upon the record presented, the Department finds that the SPGF as originally proposed would increase the emission of air pollutants from the PVSC facility, which could exacerbate adverse cumulative environmental and public health stressors affecting the host overburdened community. The Department also finds that, the foregoing avoidance and minimization measures, together with the on-site mandatory emission reductions detailed above, a net overall reduction in facility-wide emissions of air pollutants would be achieved under regular operating conditions.

The Department acknowledges that, in the event of a storm that triggers emergency operation of the SGPF, and depending upon the extent of emergency operations, a net overall reduction in facility-wide emissions of air pollutants may not be achieved. Such conditions would necessarily be time limited. The Department also acknowledges that PVSC's stated commitments to transition to low- or zero-carbon fuels at the facility may further reduce overall greenhouse gas emissions from its operations.

Lastly, the Department recognizes the Ironbound Community Corporation, New Jersey Environmental Justice Alliance, and Earthjustice letter of June 15, 2023, asserting that Departmental approval of the SPGF could constitute discrimination on the basis of race, color or national origin in violation Title VI of the federal Civil Rights Act of 1964. As discussed above, the Department has taken care to thoroughly evaluate, avoid, and minimize potentially adverse impacts of its decision upon the host overburdened community, including any potential disparate impacts upon protected classes of persons consist with Title VI requirements. As explained herein, should PVSC proceed with its proposed permit modification, the Department's environmental justice review has ensured the imposition of special conditions that results in a net overall reduction of facility-wide emissions of air pollutants under regular operating conditions. These special conditions would be indefinite in their effect, and subject to routine Department enforcement.





Accordingly, in consideration of community concerns expressed throughout the environmental justice review process, and in view of the public importance of maintaining the safe and reliable treatment of sewage in the event of a storm emergency, the Department hereby determines that PVSC may pursue the proposed modification of its Title V Permit subject to the following special conditions designed to best control emissions from the SPGF, ensure additional on-site mandatory emission reductions, and support a future low- or zero-carbon operating environment at PVSC.

#### **6. Special Conditions Attendant to All Future Permits or Approvals**

Any permit or approvals issued the Department related to the facility shall reference or otherwise incorporate the following special conditions, which are intended to reduce environmental and public health stressors affecting the host overburdened community as discussed herein. These special conditions shall be in addition to, but shall not be superseded by, all other relevant conditions as may be required pursuant to applicable law, regulation, or agreement.

Special Condition 1: PVSC is authorized to operate the combustion gas turbine generators (CTGs) under the following conditions:

- a. Up to forty-eight (48) hours in advance of a storm event with notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.
  - i. "Storm event" is defined as: storms determined by the New Jersey Office of Emergency Management as having the capability of disrupting power service to the facility.
  - ii. Maximum annual hours: 960 total (2 units x 10 storm events)
- b. Emergency Operation where a power outage has occurred because of an emergency; or a voltage reduction issued by PJM and posted on the PJM internet website ([www.pjm.com](http://www.pjm.com)) under the "emergency procedures" menu with notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.
  - i. An emergency is defined as any situation that arises from sudden and reasonably unforeseeable events beyond the control of an owner or operator of a facility, such as an unforeseen system capacity shortage caused by an act of God, that requires immediate corrective action to prevent system collapse or to restore normal operations at the facility.
- c. Once per month for necessary maintenance and testing upon 48 hours' notice to the Department via 1-877-WARN DEP, the Ironbound Community Corporation and through a public notice on PVSC's website.
  - i. Maintenance and testing operations shall be conducted each month but are not authorized for a unit in months where that unit has already operated.
  - ii. Maximum annual hours: 288 (96 per unit)
    - i. Maximum monthly hours: 24
    - ii. Maximum daily hours: 8 per unit



- d. Maximum total annual hours of CTG operation for storm event preparation and testing and maintenance are not to exceed 1,248 hours.
- e. CTG operation, including black start capability, under (a) and (b) above may only be commenced where options for utilization of onsite renewable energy source (i.e. battery, solar or other future installations) have been exhausted. This does not apply to the operation of the CTGs during storm preparation mode.

Special Condition 2: Decommission Operations and Maintenance (O&M) Building Boilers #2 and #3 listed as U11 in PVSC's Title V Air Pollution Control Operating Permit by December 31, 2027, unless a written request is submitted to and approved, in writing, by the Department. PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source.

Special Condition 3: Decommission the Head End Emergency Generator (600-kilowatt (kW) diesel engine generator) listed as U102 OS1 "CAT 600" in PVSC's Title V Permit within 120 days of completing commissioning of the SPGF, unless a written request is submitted to and approved, in writing, by the Department. PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. If PVSC chooses to replace the equipment, the replacement must be powered by a renewable energy source.

Special Condition 4: Decommission two Oxygen Production Boilers designated as U5 Oxygen Production Boilers 1 & 2 in the Title V Permit by December 31, 2027, unless a written request to extend completion of the Oxygen Production Facility Replacement Project is submitted to and approved in writing by the Department. PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source.

Special Condition 5: Decommission two Grit and Screening Boilers designated as U7 Grit and Screening Boilers 1 & 2 in the Title V Permit by December 31, 2025, unless a written request is submitted to and approved, in writing, by the Department. PVSC shall provide proof of decommissioning to the Department, the Ironbound Community Corporation and through a public notice on PVSC's website. If PVSC chooses to replace the equipment, the new equipment must be powered by a renewable energy source.

Special Condition 6: Install air pollution control equipment to the four currently uncontrolled Sludge Heat Treatment ("Zimpro") Boilers listed as U20 in the Title V Permit by December 31, 2027, unless a written extension request is submitted to and approved by the Department. PVSC shall submit an application to the Department to install and operate State-of-the-Art air pollution control devices, including, but not limited to, selective catalytic reduction (SCR) and oxidation catalyst (OC) systems by June 30, 2026, unless a written extension request is submitted to and approved, in writing, by the Department. If PVSC chooses to replace any of the four boilers, the new units must be powered by a renewable energy source.





**Special Condition 7:** Install the maximum feasible and no less than five (5) MW of solar panels at the PVSC Facility by December 31, 2026, unless a written extension request is submitted to and approved by the Department. By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the maximum feasible solar capacity and proposing an installation schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website.

**Special Condition 8:** Install the maximum feasible and no less than five (5) MW of battery storage capacity at the PVSC Facility by December 31, 2026, unless a written request is submitted to and approved, in writing, by the Department. By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the maximum feasible battery storage capacity and proposing an installation schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website.

**Special Condition 9:** PVSC shall initiate the transition of the CTGs from natural gas to green hydrogen or another technically feasible renewable fuel source within 120 days of commissioning the SPGF, unless a written request is submitted to and approved, in writing, by the Department. By or before June 30, 2025, PVSC shall submit to the Department a feasibility study analyzing the transition options and proposing a transition schedule for the Facility. The feasibility study shall be distributed to the Ironbound Community Corporation and through a public notice on PVSC's website.

**Special Condition 10:** PVSC shall submit a semi-annual Environmental Justice Compliance Report (Report) to the Department on January 31 and July 31 of each year. The Report shall address each Special Condition and include (a) a restatement of the condition, (b) a summary of PVSC's efforts to fulfill the condition, (c) a detailed explanation of the compliance activities undertaken during the preceding six month reporting period, and (d) a description of compliance activities anticipated in the forthcoming six month reporting period. PVSC shall distribute each Report to the Ironbound Community Corporation and through a public notice on PVSC's website. The semi-annual reporting will be deemed complete once all Special Conditions have been met.

**Special Condition 11:** Failure to comply with any Special Condition shall be deemed an ongoing violation of PVSC's Title V Permit that constitutes grounds for revocation of authority to operate the SPGF.

## **7. Notices**

This decision does not constitute a permit to construct or operate the proposed SPGF or authorize any activity otherwise regulated by the Department.

This decision serves only to summarize and complete the Department's environmental justice review for the proposed SPGF project. The current application for the proposed SPGF project shall now proceed to preparation of a full draft Title V permit modification document, which permit must include all special conditions in section 6 above. Pursuant to applicable rules, N.J.A.C. 7:27-22.11 and -22.12, the draft permit shall be subject to public review and comment, as well as review by the U.S. Environmental Protection Agency prior to issuance of a final permit by the Department.



The special conditions in section 6 above shall survive any future permit modifications and must be applied to any and all later Departmental authorizations related to the facility unless, where applicable, a special condition has been implemented to completion as intended by this decision. All special conditions shall be subject to routine Department compliance assurance and, where necessary, enforcement action.

As the special conditions set forth above constitute the outcome of the Department's environmental justice review of the proposed SPGF project, future permit modifications or renewals that may be necessary to implement the special conditions shall not require additional environmental justice review pursuant to the AO or N.J.A.C. 7:1C.

Any regulated activities or equipment at the facility not fully addressed in the course of this environmental justice review shall be subject to N.J.A.C. 7:1C where applicable.

Any questions about this decision should be directed to the Department's Division of Air Quality and Radiation, Air Quality Permitting and Planning, Bureau of Stationary Sources, which can be reached at (609) 633-8248 or [aqpls@dep.nj.gov](mailto:aqpls@dep.nj.gov).

Dated: July 18, 2024



Shawn M. LaTourette, Commissioner  
Department of Environmental Protection

