



## State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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

Trenton, NJ 08625-0420

PHILIP D. MURPHY

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Lt. Governor

SHAWN M. LATOURETTE

COMMISSIONER

### Air Pollution Control Operating Permit Significant Modification

**Permit Activity Number: BOP210001**

**Program Interest Number: 18058**

Mailing Address	Plant Location
EDWIN BUCHALSKI SR OP MGR BUCKEYE PERTH AMBOY TERMINAL LLC 380 MAURER RD Perth Amboy, NJ 08861	BUCKEYE PERTH AMBOY TERMINAL LLC 380 Maurer Rd Perth Amboy Middlesex County

**Initial Operating Permit Approval Date:**

**February 4, 2005**

**Operating Permit Approval Date:**

**DRAFT**

**Operating Permit Expiration Date:**

**February 3, 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: <http://www.nj.gov/dep/aqpp>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at <http://www.nj.gov/dep/aqpp>.

## **HELPLINE**

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

## **RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD**

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

## **COMPLIANCE ASSURANCE MONITORING**

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

## **ADMINISTRATIVE HEARING REQUEST**

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

If you have any questions regarding this permit approval, please call Timothy Pagodin at (609) 777-2821.

Approved by:

\_\_\_\_\_  
Kevin Greener

Enclosure

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

**Facility Name: BUCKEYE PERTH AMBOY TERMINAL LLC**  
**Program Interest Number: 18058**  
**Permit Activity Number: BOP210001**

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## Section A

**Facility Name: BUCKEYE PERTH AMBOY TERMINAL LLC**

**Program Interest Number: 18058**

**Permit Activity Number: BOP210001**

### **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	859	103	101	23.3	9.01	8.23	N/A	N/A	20.6	
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	859	103	101	23.3	9.01	8.23	N/A	N/A	20.6	182,000

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	29.4	12.6	2.72	0.83	15.9	15.9	15.9	N/A	28.5
Non-Source Fugitive Emissions <sup>4</sup>	105	N/A	N/A	N/A	7.00	1.40	1.40	N/A	2.40

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.

<sup>4</sup> Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

## Section A

**Facility Name: BUCKEYE PERTH AMBOY TERMINAL LLC**  
**Program Interest Number: 18058**  
**Permit Activity Number: BOP210001**

### **POLLUTANT EMISSIONS SUMMARY**

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations <sup>5</sup>:

HAP	TPY
Arsenic	0.0000137
Benzene	1.18
Cadmium	0.0000756
Cobalt	0.00000577
Dimethylbenz(a)anthracene (7,12)	0.00000110
Formaldehyde	0.00515
Hexane (n-)	16.9
Hydrogen sulfide	0.11
Xylene	2.48

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

Other Air Contaminant	TPY
N/A	N/A

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<sup>5</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: BUCKEYE PERTH AMBOY TERMINAL LLC**  
**Program Interest Number: 18058**  
**Permit Activity Number: BOP210001**

### **GENERAL PROVISIONS AND AUTHORITIES**

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

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

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

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



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

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
  - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
  - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

## Section C

**Facility Name: BUCKEYE PERTH AMBOY TERMINAL LLC**

**Program Interest Number: 18058**

**Permit Activity Number: BOP210001**

### **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	---
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## Section D

**Facility Name: BUCKEYE PERTH AMBOY TERMINAL LLC**  
**Program Interest Number: 18058**  
**Permit Activity Number: BOP210001**

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

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<b>U NJID</b>	<b>U Designation</b>	<b>U Description</b>	
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U17	Gasoline Tks	Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER	145
U19	Area H Equip	Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment	156
U20	Area J ETP	Effluent Treatment Plant	240
U22	Additive Tks	Seven Additive Tanks	254
U24	Area F Lding	Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX	256
U25	Area B-I <1	Group II B - I Storage Tanks < 1.0 psia	290
U27	OWS	Oil Water Separator	295

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

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 200001

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

1. Installation of two (2) 8 MMBtu/hr Hot Water Heaters firing Natural Gas (Emission Unit U19, Operating Scenarios OS59 and OS60, Equipment E5404 and E5405, Emission Points PT5404 and PT5405) to heat railcars and existing aboveground storage tanks for the off-loading and storage of B100 biodiesel.

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

Increase of NOx by 2.45 tons per year, increase of CO by 2.66 tons per year, increase of TSP by 0.52 tons per year, increase of PM-10 by 0.52 tons per year, increase of Arsenic by 0.0000137 tons per year, increase of Cadmium by 0.0000756 tons per year, increase of Cobalt by 0.00000577 tons per year, increase of Dimethylbenz(a)anthracene by 0.000000550 tons per year, and increase of Formaldehyde by 0.00515 tons per year

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



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

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

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**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	Stack testing after permit expiration: If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing during the expired permit term, 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:** FG3 Road dust

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** FG4 light liquid sources (piping, fittings, rail fugitives) not subject to Refinery MACT

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall perform a monthly leak inspection of all equipment in gasoline service. Each piece of equipment shall be inspected during the loading of a gasoline cargo tank. [40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring each month during operation, based on an instantaneous determination. The owner or operator shall conduct instrument leak detection monitoring using EPA method 21, as approved by the Administrator. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR 63.424(a)]	Other: Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. A log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility.[40 CFR 63.424(b)] and [40 CFR 63.424(c)].	Repair equipment: Within 15 calendar days from detection. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak, except as listed below. Delay of repair of leaking equipment will be allowed upon a demonstration to the Administrator that repair within 15 days is not feasible. The Permittee shall provide the reason(s) a delay is needed and the date by which each repair is expected to be completed. [ 40 CFR 63.424(c)] and. [40 CFR 63.424(d)]
2	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. [40 CFR 63.424(g)]	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 shall submit semiannual reports to the Administrator.[40 CFR 63.428(g)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. The reports shall include (as applicable) each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; periodic reports under 40 CFR Part 63.428(d); and the number of equipment leaks not repaired within 5 days after detection. [40 CFR 63.428(g)]
4	The owner or operator shall submit to the Administrator excess emission reports pursuant to 40 CFR Part 63.10(e)(3). [40 CFR 63.428(h)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. The owner or operator shall include in the excess emission report for each occurrence of an equipment leak for which no repair attempt was made within 5 days or for which repair was not completed within 15 days after detection: (i) The date on which the leak was detected; (ii) The date of each attempt to repair the leak; (iii) The reasons for the delay or repair; and (iv) the date of succesful repair. [40 CFR 63.10(e)(3)]&. [40 CFR 63.428(h)]

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

**Subject Item:** IS2 Diesel Pumps (fuel burning equipment) < 1 MMbtu/hr

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 4 (Middlesex 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.
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.



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

**Subject Item:** IS3 Wharf Loading Arm Receiving Drums (< 2000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS4 Tote Bins (< 2000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS5 Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS6 Storage Tanks (< 2000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

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

**Subject Item:** IS7 Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS8 Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS9 Loading Racks Not Subject to Subchapter 16 Vapor Pressure < 1 mm Hg

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS10 Tote Bins, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

**Subject Item:** IS11 Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS12 Boiler Feedwater Deaerator Stripping Section (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The concentration in water of any TXS must be less than 100 parts per billion by weight or the total concentration in the water of VOC must be below 3,500 parts per billion by weight. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Subject Item:** IS13 Cooling Tower E-8980 (< 50 lb/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 3.6 lb/hr. Particulate emission limit based on 0.02 grains per standard cubic foot. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 %. Particulate emissions no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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

**Subject Item:** IS14 Tote Bins, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS15 Storage Tanks (< 2000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS16 IAF Feed Sump (potential to emit < 0.1 lb/hr of any Group 1 or Group 2 TXS or any combination thereof)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS17 Biodisk Units (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The concentration in water of any TXS must be less than 100 parts per billion by weight or the total concentration in the water of VOC must be below 3,500 parts per billion by weight. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Subject Item:** IS18 Clarifiers (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The concentration in water of any TXS must be less than 100 parts per billion by weight or the total concentration in the water of VOC must be below 3,500 parts per billion by weight. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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

**Subject Item:** IS19 PAB Wastewater Treatment Basin (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The concentration in water of any TXS must be less than 100 parts per billion by weight or the total concentration in the water of VOC must be below 3,500 parts per billion by weight. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Subject Item:** IS20 Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS21 Unheated Open-Top Degreaser < 6 square feet

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [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:** IS23 Rental Diesel Equipment (fuel burning equipment) < 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 4 (Middlesex 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.

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

**Subject Item:** IS24 Biodiesel Tanks (< 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	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(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.
2	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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

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**Subject Item:** IS25 Rail Car Unloading Rack

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

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**Subject Item:** IS50 Contractor - Portable Diesel Equipment (fuel burning equipment) < 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 Parts per Million. No person shall use fuel that contains sulfur in excess of the applicable parts per million by weight set forth in N.J.A.C. 7:27-9 Table 1B (effective July 1, 2016) for Zone 4 (Middlesex 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.



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**Subject Item:** GR1 16.2 Range III Internal floating roof requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable VOC storage tanks greater than 10,000 gallons, determined to fall under Range III shall be equipped with a floating roof. [N.J.A.C. 7:27-16.2(b)2]	None.	Other: Maintain on-site, for each tank, for a period of at least five years, the records that specify each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1] & [N.J.A.C. 7:27-16.22(a)].	None.
2	The permittee shall comply with the requirements at [N.J.A.C. 7:27-16.2(l)7] on or before the tank is refilled after being degassed for the first time after May 19, 2009, but no later than May 1, 2020, if the tank was in existence on May 18, 2009, or on initial fill if the tank is constructed on or after May 19, 2009. [N.J.A.C. 7:27-16.2(l)7]	None.	None.	None.
3	The permittee shall equip each fixed roof support column and well with a sliding cover that is gasketed or with flexible fabric sleeves. [N.J.A.C. 7:27-16.2(l)7i]	None.	None.	None.
4	The permittee shall equip each ladder well with a gasketed cover. The cover shall be closed at all times, with no visible gaps, except when the well must be opened for access. [N.J.A.C. 7:27-16.2(l)7ii]	None.	None.	None.
5	The permittee shall equip each access hatch with a cover that is gasketed and bolted. Equip each gauge float well with a cover that is either gasketed and weighted or gasketed and bolted. The cover shall be closed at all times, with no visible gaps, except when the hatch or well must be opened for access. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)1i]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall equip each gauge hatch/sample well with a cover that is gasketed. The cover shall be closed at all times, with no visible gaps, except when the hatch or well must be opened for access [N.J.A.C. 7:27-16.2(l)7iii]& [N.J.A.C. 7:27-16.2(l)1ii]	None.	None.	None.
7	The permittee shall gasket or cover each adjustable roof leg with a VOC impervious sock at all times when the roof is floating. [N.J.A.C. 7:27-16.2(l)7iii]& [N.J.A.C. 7:27-16.2(l)1iii]	None.	None.	None.
8	The permittee shall gasket each rim vent. Rim vents shall be closed at all times, with no visible gaps, when the roof is floating; and shall be set to open only when the roof is being floated off the roof leg supports or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. [N.J.A.C. 7:27-16.2(l)7iii]& [N.J.A.C. 7:27-16.2(l)1iv]	None.	None.	None.
9	The permittee shall gasket each vacuum breaker. Vacuum breakers shall be closed at all times, with no visible gaps, when the roof is floating; and shall be set to open only when the roof is being floated off or is being landed on the roof leg supports. [N.J.A.C. 7:27-16.2(l)7iii]& [N.J.A.C. 7:27-16.2(l)1v]	None.	None.	None.
10	The permittee shall equip each open floating roof drain with a slotted membrane fabric cover or other device with an equivalent control efficiency that covers at least 90 percent of the area of the opening. [N.J.A.C. 7:27-16.2(l)7iii]& [N.J.A.C. 7:27-16.2(l)1vi]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall equip each unslotted guidepole well with a gasketed sliding cover and a flexible fabric sleeve or wiper. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)1vii]	None.	None.	None.
12	The permittee shall equip each unslotted guidepole with a gasketed cover at the end of the pole. The cover shall be closed at all times, with no visible gaps, except when gauging or sampling. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)1viii]	None.	None.	None.
13	The permittee shall equip each slotted guidepole with a gasketed cover, a pole wiper and a pole sleeve. The pole sleeve shall be extended into the stored liquid. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)lix]	None.	None.	None.
14	The permittee shall equip each slotted guidepole having a pole float with a gasketed cover, a pole wiper, and a pole float wiper. The wiper or seal of the pole float shall be at or above the height of the pole wiper. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)lx]	None.	None.	None.
15	The permittee shall cover each slotted guidepole opening with a gasketed cover at all times, with no visible gaps, except when the cover must be opened for access. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)lxi]	None.	None.	None.
16	The permittee shall maintain the pole float in a condition such that it floats within the guidepole at all times except when it must be removed for sampling or when the tank is empty. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)lxii]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The permittee shall except for vacuum breakers and rim vents, ensure that each opening in the external floating roof shall provide a projection below the liquid surface [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)1xiii]	None.	None.	None.
18	Except for vacuum breakers, rim vents, roof drains, and leg sleeves, the permittee shall equip all other openings in the roof with a gasketed cover or seal that is closed at all times, with no visible gaps, except when the cover or seal must be opened for access. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)1xiv]	None.	None.	None.
19	In lieu of complying with the requirement of no visible gap at [N.J.A.C. 7:27-16.2 (l)1i, ii, iv, v, viii, xi and xiv], the permittee shall maintain all roof openings in a leak-free condition at all times except during preventive maintenance, repair, or inspection periods specified at [N.J.A.C. 7:27-16.2 (r)]. [N.J.A.C. 7:27-16.2(l)7iii] & [N.J.A.C. 7:27-16.2(l)2]	None.	None.	None.
20	As applicable, the permittee shall equip the tank with a rim seal system consisting of either a liquid mounted primary seal or primary seal and a secondary seal. The primary seal shall be a mechanical shoe or liquid mounted seal. A vapor mounted primary seal may be used on a tank with a shell that has riveted or lap-welded horizontal seams. The secondary seal shall be rim-mounted and shall not be attached to the primary seal. [N.J.A.C. 7:27-16.2(l)3ii], [N.J.A.C. 7:27-16.2(l)7iv(2)(B) & [N.J.A.C. 7:27-16.2(l)3i]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	As applicable, the permittee shall ensure a mechanical shoe primary seal shall have one end extend a minimum vertical distance of 15 centimeters (six inches) above the stored organic liquid surface and the other end extend into the liquid a minimum of 10 centimeters (four inches). [N.J.A.C. 7:27-16.2(l)7iv]	None.	None.	None.
22	As applicable, the permittee shall ensure gaps between the tank shell and the primary seal shall not exceed 1.3 centimeters (1/2 inch) for a cumulative length of 30 percent of the circumference of the tank, and 0.32 centimeters (1/8 inch) for 60 percent of the circumference of the tank. No gap between the tank shell and the primary seal shall exceed 3.8 centimeters (1-1/2 inches). No continuous gap between the tank shell and the primary seal greater than 0.32 centimeters (1/8 inch) shall exceed 10 percent of the circumference of the tank. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3iii]	None.	None.	None.
23	As applicable, the permittee shall ensure gaps between the tank shell and the secondary seal shall not exceed 0.32 centimeters (1/8 inch) for a cumulative length of 95 percent of the circumference of the tank. No gap between the tank shell and the secondary seal shall exceed 1.3 centimeters (1/2 inch). [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3iv]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	As applicable, the permittee shall ensure the geometry of the shoe shall be such that the maximum gap between the shoe and the tank shell is no greater than doubled the gap allowed by the seal gap criteria specified in (1)3iii above for a length of at least 46 centimeters (18 inches) in the vertical plane above the liquid surface. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3vi]	None.	None.	None.
25	As applicable, the permittee shall ensure the primary seal envelope shall be made available for unobstructed inspection by the Department, upon request, along its circumference. In the case of riveted tanks with resilient filled primary seals, at least eight such locations shall be made available; for all other types of seals, at least four such locations shall be made available. If the Department deems it necessary, further unobstructed inspection of the primary seal may be required to determine the seal's condition along its entire circumference. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3vii]	None.	None.	None.
26	As applicable, the permittee shall install the secondary seal in a way that permits probes up to 3.8 centimeters (1-1/2 inches) in width to be inserted to measure gaps in the primary seal. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3viii]	None.	None.	None.
27	As applicable, the permittee shall ensure no holes, tears or openings in the secondary seal or in the primary seal envelope surrounding the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3ix]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	As applicable, except during preventive maintenance, repair, or inspection periods specified at[N.J.A.C. 7:27-16.2(r)] that do not exceed 72 hours, the permittee shall ensure both the primary seal and the secondary seal cover the annular space between the floating roof and the wall of the storage tank in a continuous fashion, as required at [N.J.A.C. 7:27-16.2 (l)3iii and iv]. [N.J.A.C. 7:27-16.2(l)7iv(2)] & [N.J.A.C. 7:27-16.2(l)3x]	None.	None.	None.
29	The permittee shall for an internal floating roof installed prior to July 23, 1984, ensure that the concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 50 percent of its lower explosive limit; and For an internal floating roof installed after July 23, 1984, ensure that the concentration of organic vapor in the vapor space above the internal floating roof shall not exceed 30 percent of its lower explosive limit. [N.J.A.C. 7:27-16.2(l)7v] [N.J.A.C. 7:27-16.2(l)7vi]	Other: Measure the organic vapor concentration in the vapor space above the floating roof in terms of the lower explosive limit (LEL), annually, using an explosimeter. [N.J.A.C. 7:27-16.2(r)8] &[N.J.A.C. 7:27-16.2(r)6i].	Other: Record the explosimeter reading in section E of the Inspection Form, annually. [N.J.A.C. 7:27-16.2(r)6i].	None.
30	As applicable, the permittee shall: i. If the tank was constructed or installed on or after December 17, 1979, the tank shall be provided with a double seal floating roof. This requirement shall remain in effect for any such tank until [N.J.A.C. 7:27-16.2(l)3, 5, 6 or 7] becomes applicable for that tank; or ii. If the tank was constructed or installed prior to December 17, 1979, the requirements of [N.J.A.C. 7:27-16.2(l)3, 5, 6 or 7] shall apply as applicable. [N.J.A.C. 7:27-16.2(l)8]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	On and after May 1, 2010, any part of a degassing and cleaning operation of a stationary storage tank performed during the period May 1 through September 30 shall be performed only as follows: 1. The owner or operator shall degas a tank storing a VOC with a vapor pressure equal to or greater than 0.5 psia at standard conditions as follows: i. Empty the tank of the VOC liquid; ii. Minimize VOC vapors in the tank vapor space by: Exhausting VOCs contained in the tank vapor space to a vapor control system rated at a minimum 95 percent efficiency until the organic vapor concentration is 5,000 parts per million by volume (ppmv) or less as methane, or is 10 percent or less of the lower explosive limit, whichever is less. [N.J.A.C. 7:27-16.2(q)]	None.	None.	None.
32	The permittee shall perform inspection by an authorized inspector. [N.J.A.C. 7:27-16.2(r)]	Other: Perform inspection by an authorized inspector and maintain the tank, Annually. During the inspection, the authorized inspector performing the inspection must have a copy of the relevant portions of the Operating Permit pertinent to the tank being inspected. The authorized inspector shall compare the permit to the existing tank and actual operating conditions of the tank. [N.J.A.C. 7:27-16.2(r)1], [N.J.A.C. 7:27-16.2(r)2] , [N.J.A.C. 7:27-16.2(r)3] &[N.J.A.C. 7:27-16.2(r)4].	Other: Annually complete all necessary calculations and record all required data accordingly in the Inspection Form and Fugitive Emissions Form at N.J.A.C. 7:27-16 Appendix II. Record any discrepancies between the permit equipment description and the existing tank, or the permit conditions and the actual operating conditions of the tank, as verified during an inspection, in section J "Comments" of the Inspection Form. Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)2], [N.J.A.C. 7:27-16.2(r)4], &[N.J.A.C. 7:27-16.2(s)5].	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The permittee shall record on the Inspection Form at N.J.A.C. 7:27-16 Appendix II, the findings of any tank inspection, whether completed or not. [N.J.A.C. 7:27-16.2(r)1]	None.	Other: The findings of any tank inspection, whether completed or not, shall be recorded on the Inspection Form at N.J.A.C. 7:27-16 Appendix II. If an inspection is stopped before completion, indicate the reason for this action in section J "Comments" of the Inspection Form. Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)1] & [N.J.A.C. 7:27-16.2(s)5].	None.
34	The permittee shall have an authorized inspector annually inspect the ground level periphery of each tank for possible leaks in the tank shell. [N.J.A.C. 7:27-16.2(r)3]	Other: Annually inspect the ground level periphery of each tank for possible leaks in the tank shell. [N.J.A.C. 7:27-16.2(r)3].	Other: Complete section D "Ground Level Inspection" of the Inspection Form Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)3].	None.
35	Annually complete all necessary calculations and record all required data accordingly in the Inspection Form and Fugitive Emissions Form at N.J.A.C. 7:27-16 Appendix II; [N.J.A.C. 7:27-16.2(r)4]	None.	None.	None.
36	The permittee shall annually visually inspect the roof to check for permit and rule violations, and visually check the roof for unsealed roof legs, open hatches, open emergency roof drains, or open vacuum breakers. [N.J.A.C. 7:27-16.2(r)8] & [N.J.A.C. 7:27-16.2(r)6ii]	Other: Annually, from an opening in the domed or fixed roof, visually inspecting the roof to check for permit and rule violations, and visually checking the roof for unsealed roof legs, open hatches, open emergency roof drains, or open vacuum breakers. [N.J.A.C. 7:27-16.2(r)8] & [N.J.A.C. 7:27-16.2(r)6ii].	Other: Record the findings under section F of the Inspection Form, annually. Indicate presence of any tears in the fabric of the visible seal. Record the findings under section F of the Inspection Form. Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)8] & [N.J.A.C. 7:27-16.2(r)6ii] & [N.J.A.C. 7:27-16.2(s)5].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	The permittee of any VOC stationary storage tank in Range III shall repair or replace any piping, valve, vent, seal, gasket, or cover of a roof opening that: i. Is defective; ii. Has a visible gap or is not leak-free; or iii. Does not meet any applicable requirement of this section [N.J.A.C. 7:27-16.2(r)10]	None.	Other: Maintain on-site, for each tank, for at least 5 years, the repair and replacement documentation. [N.J.A.C. 7:27-16.2(s)8] & [N.J.A.C. 7:27-16.22(a)].	Other (provide description): Other Perform the repair or replacement: i. If the tank is already degassed, prior to filling; or ii. If the tank is not degassed, within 45 days after discovery of the needed repair or replacement. If a repair cannot be completed and the vessel cannot be emptied within 45 days, the owner or operator may use up to two extensions of up to 30 additional days each. Documentation of the owner or operators decision to use an extension shall include a description of the failure, shall document that alternative storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be completely emptied as soon as practicable. [N.J.A.C. 7:27-16.2(r)11]
38	The permittee shall maintain records of all tank integrity testing schedules for Range III tanks that N.J.A.C. 7:1E-4.2(c)1v requires to be included in the "Discharge, Prevention, Containment and Countermeasure Plan" [N.J.A.C. 7:27-16.2(s)7]	None.	Other: Records of all tank integrity testing schedules for Range III tanks that N.J.A.C. 7:1E-4.2(c)1v requires to be included in the "Discharge, Prevention, Containment and Countermeasure Plan". Duration of records retention id five years.[N.J.A.C. 7:27-16.2(s)7].	None.

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**Subject Item:** GR2 16.2 Range III External floating roof requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Applicable VOC storage tanks greater than 10,000 gallons, determined to fall under Range III shall be equipped with a floating roof. [N.J.A.C. 7:27-16.2(b)2]	None.	Other: Maintain on-site, for each tank, for a period of at least five years, the records that specify each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)1] & [N.J.A.C. 7:27-16.22(a)].	None.
2	Any external floating roof tank in Range III that was in existence on May 18, 2009, and that is not degassed and emptied by September 16, 2009 shall be temporarily exempt from complying with (l)1i below if the operator has demonstrated to the Department that in order to properly bolt the covers for access hatches and gauge float wells, a flange or other comparable device must be welded to the fitting or other hot-work must be performed. The operator shall use equivalent means, such as clamping, to secure the covers during the interim period. However, the owner or operator must comply with N.J.A.C. 7:27-16.2 (l)1i below the first time the tank is degassed and emptied after September 16, 2009. [N.J.A.C. 7:27-16.2(f)3]	None.	None.	None.
3	Any external floating roof tank that contains more than 97 percent by volume crude oil or more than 97 percent by volume oily wastewater and/or slop oil regulated by 40 CFR Part 60, Subpart QQQ, incorporated herein by reference, shall be exempt from N.J.A.C. 7:27-16.2 (l)4 below, but shall comply with all other applicable requirements of this subchapter. [N.J.A.C. 7:27-16.2(f)4]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Any floating roof tank subject to a Federally enforceable condition limiting its annual in-service roof landing VOC emissions to less than five tons as calculated by AP-42, Chapter 7, may be exempt from N.J.A.C. 7:27-16.2(p) below, at the owner or operator's discretion, provided that the owner or operator shall maintain the records of these calculations pursuant to N.J.A.C. 7:27-16.2 (s) below and the tanks Operating Permit or Preconstruction Permit, as applicable. [N.J.A.C. 7:27-16.2(f)6]	None.	None.	None.
5	Any external floating roof tank in Range III that is subject to N.J.A.C. 7:27-16.2(l)1vi below shall be exempt from N.J.A.C. 7:27-16.2(l)11 below. [N.J.A.C. 7:27-16.2(f)8]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank in Range III as determined by Table 2A equipped with an external floating roof, unless any such storage tank containing a VOC having a vapor pressure of 1.0 pounds per square inch absolute (50 millimeters of mercury) or greater at standard conditions and having a maximum capacity of 20,000 gallons (75,700 liters) or greater is equipped with a double seal-envelope combination or equipment approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere. For the secondary seal, the gap area of gaps exceeding one-eighth inch (0.32 centimeters) in width between the seal and the tank wall shall not exceed 1.0 square inch per foot (6.5 square centimeters per 0.3 meters) of tank diameter. Any secondary seal shall be intact, with no visible holes, tears or other openings. The requirements of this subsection shall remain in effect for any such tank until the rim seal system requirements at N.J.A.C. 7:27-16.2(l)3 below become effective for that tank. [N.J.A.C. 7:27-16.2(h)]	None.	None.	None.
7	The owner or operator of an external floating roof tank in Range III shall comply with the requirements at [N.J.A.C. 7:27-16.2(l)1], no later than September 16, 2009 or the first time the tank is emptied and degassed, whichever occurs first, if the tank was in existence on May 18, 2009, or on initial fill if the tank is constructed on or after May 19, 2009: [N.J.A.C. 7:27-16.2(l)1]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The permittee shall equip each access hatch with a cover that is gasketed and bolted. Equip each gauge float well with a cover that is either gasketed and weighted or gasketed and bolted. The cover shall be closed at all times, with no visible gaps, except when the hatch or well must be opened for access. [N.J.A.C. 7:27-16.1(1)i]	None.	None.	None.
9	The permittee shall equip each gauge hatch/sample well with a cover that is gasketed. The cover shall be closed at all times, with no visible gaps, except when the hatch or well must be opened for access [N.J.A.C. 7:27-16.2(1)1ii]	None.	None.	None.
10	The permittee shall gasket or cover each adjustable roof leg with a VOC impervious sock at all times when the roof is floating. [N.J.A.C. 7:27-16.2(1)1iii]	None.	None.	None.
11	The permittee shall gasket each rim vent. Rim vents shall be closed at all times, with no visible gaps, when the roof is floating; and shall be set to open only when the roof is being floated off the roof leg supports or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. [N.J.A.C. 7:27-16.2(1)1iv]	None.	None.	None.
12	The permittee shall gasket each vacuum breaker. Vacuum breakers shall be closed at all times, with no visible gaps, when the roof is floating; and shall be set to open only when the roof is being floated off or is being landed on the roof leg supports. [N.J.A.C. 7:27-16.2(1)1v]	None.	None.	None.
13	The permittee shall equip each open floating roof drain with a slotted membrane fabric cover or other device with an equivalent control efficiency that covers at least 90 percent of the area of the opening. [N.J.A.C. 7:27-16.2(1)1vi]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The permittee shall equip each unslotted guidepole well with a gasketed sliding cover and a flexible fabric sleeve or wiper. [N.J.A.C. 7:27-16.2(l)1vii]	None.	None.	None.
15	The permittee shall equip each unslotted guidepole with a gasketed cover at the end of the pole. The cover shall be closed at all times, with no visible gaps, except when gauging or sampling. [N.J.A.C. 7:27-16.2(l)1viii]	None.	None.	None.
16	The permittee shall equip each slotted guidepole with a gasketed cover, a pole wiper and a pole sleeve. The pole sleeve shall be extended into the stored liquid. [N.J.A.C. 7:27-16.2(l)lix]	None.	None.	None.
17	The permittee shall equip each slotted guidepole having a pole float with a gasketed cover, a pole wiper, and a pole float wiper. The wiper or seal of the pole float shall be at or above the height of the pole wiper. [N.J.A.C. 7:27-16.2(l)1x]	None.	None.	None.
18	The permittee shall cover each slotted guidepole opening with a gasketed cover at all times, with no visible gaps, except when the cover must be opened for access. [N.J.A.C. 7:27-16.2(l)1xi]	None.	None.	None.
19	The permittee shall maintain the pole float in a condition such that it floats within the guidepole at all times except when it must be removed for sampling or when the tank is empty. [N.J.A.C. 7:27-16.2(l)1xii]	None.	None.	None.
20	The permittee shall, except for vacuum breakers and rim vents, ensure that each opening in the external floating roof shall provide a projection below the liquid surface [N.J.A.C. 7:27-16.2(l)1xiii]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Except for vacuum breakers, rim vents, roof drains, and leg sleeves, the permittee shall equip all other openings in the roof with a gasketed cover or seal that is closed at all times, with no visible gaps, except when the cover or seal must be opened for access. [N.J.A.C. 7:27-16.2(l)1xiv]	None.	None.	None.
22	In lieu of complying with the requirement of no visible gap at N.J.A.C. 7:27-16.2(l)1i, ii, iv, v, viii, xi and xiv above, the owner or operator of an external floating roof tank in Range III may, no later than September 16, 2009 if the tank was in existence on May 18, 2009, or on initial fill if the tank is constructed on or after May 19, 2009, maintain all roof openings in a leak-free condition at all times except during preventive maintenance, repair, or inspection periods specified at N.J.A.C. 7:27-16.2(r) below. [N.J.A.C. 7:27-16.2(l)2]	None.	None.	None.
23	The owner or operator of an external floating roof tank in Range III shall equip the tank with a rim seal system meeting the following requirements prior to the initial fill if the tank was constructed on or after May 19, 2009, or prior to the date the tank is refilled after being degassed for the first time after May 19, 2009, but no later than May 1, 2020 if the tank was in existence on May 18, 2009: The primary seal shall be a mechanical shoe or liquid mounted seal. The secondary seal shall be rim-mounted and shall not be attached to the primary seal. [N.J.A.C. 7:27-16.2(l)3ii] [N.J.A.C. 7:27-16.2(l)3i]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Gaps between the tank shell and the primary seal shall not exceed 1.3 centimeters (1/2 inch) for a cumulative length of 30 percent of the circumference of the tank, and 0.32 centimeters (1/8 inch) for 60 percent of the circumference of the tank. No gap between the tank shell and the primary seal shall exceed 3.8 centimeters (1-1/2 inches). No continuous gap between the tank shell and the primary seal greater than 0.32 centimeters (1/8 inch) shall exceed 10 percent of the circumference of the tank; [N.J.A.C. 7:27-16.2(l)3iii]	None.	None.	None.
25	Gaps between the tank shell and the secondary seal shall not exceed 0.32 centimeters (1/8 inch) for a cumulative length of 95 percent of the circumference of the tank. No gap between the tank shell and the secondary seal shall exceed 1.3 centimeters (1/2 inch); [N.J.A.C. 7:27-16.2(l)3iv]	None.	None.	None.
26	Mechanical shoe primary seals shall be installed so that one end of the shoe extends into the stored organic liquid and the other end extends a minimum vertical distance of 61 centimeters (24 inches) above the stored organic liquid surface [N.J.A.C. 7:27-16.2(l)3v]	None.	None.	None.
27	The geometry of the shoe shall be such that the maximum gap between the shoe and the tank shell is no greater than doubled the gap allowed by the seal gap criteria specified in N.J.A.C. 7:27-16.2(l)3iii above for a length of at least 46 centimeters (18 inches) in the vertical plane above the liquid surface; [N.J.A.C. 7:27-16.2(l)3vi]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	The primary seal envelope shall be made available for unobstructed inspection by the Department, upon request, along its circumference. In the case of riveted tanks with resilient filled primary seals, at least eight such locations shall be made available; for all other types of seals, at least four such locations shall be made available. If the Department deems it necessary, further unobstructed inspection of the primary seal may be required to determine the seal's condition along its entire circumference; [N.J.A.C. 7:27-16.2(l)3vii]	None.	None.	None.
29	The secondary seal shall be installed in a way that permits probes up to 3.8 centimeters (1-1/2 inches) in width to be inserted to measure gaps in the primary seal [N.J.A.C. 7:27-16.2(l)3viii]	None.	None.	None.
30	There shall be no holes, tears or openings in the secondary seal or in the primary seal envelope surrounding the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [N.J.A.C. 7:27-16.2(l)3ix]	None.	None.	None.
31	Except during preventive maintenance, repair, or inspection periods specified at N.J.A.C. 7:27-16.2(r) below that do not exceed 72 hours, both the primary seal and the secondary seal shall cover the annular space between the floating roof and the wall of the storage tank in a continuous fashion, as required at N.J.A.C. 7:27-16.2(l)3iii and iv above. [N.J.A.C. 7:27-16.2(l)3x]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	If an external floating roof tank in Range III stores any VOC with vapor pressure three pounds per square inch absolute or greater at standard conditions, the tank shall be equipped with a domed roof before the tank is refilled after the first time the tank is degassed after May 19, 2009, but no later than May 1, 2020 if the tank was in existence on May 18, 2009, or on initial fill if the tank is constructed on or after May 19, 2009. [N.J.A.C. 7:27-16.2(1)4]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	<p>The owner or operator of a domed external floating roof tank in Range III that is already in operation as of May 19, 2009 shall, prior to the date the tank is refilled after being degassed the first time after May 19, 2009, but no later than May 1, 2020:</p> <p>i. Comply with N.J.A.C. 7:27-16.2(l)1i through xiv above;</p> <p>ii. Equip the tank with a rim seal system consisting of either</p> <p>(1) A liquid-mounted primary seal meeting the requirements for primary seals at N.J.A.C. 7:27-16.2(l)3iii, vii, and x above and having no tears or openings, or</p> <p>(2) A primary and a secondary seal meeting the requirements at N.J.A.C. 7:27-16.2(l)3i through x above, including compliance dates, except that:</p> <p>(A) A mechanical shoe primary seal shall have one end extend a minimum vertical distance of 15 centimeters (six inches) above the stored organic liquid surface and the other end extend into the liquid a minimum of 10 centimeters (four inches) instead of meeting the requirement at (l)3v above, and</p> <p>(B) A vapor-mounted wiper primary seal may be used on a tank with a shell that has riveted or lap-welded horizontal seams instead of the liquid mounted or mechanical shoe primary seal required at N.J.A.C. 7:27-16.2(l)3i above; and</p> <p>iii. Ensure that the concentration of organic vapor in the vapor space above the domed external floating roof does not exceed 30 percent of its lower explosive limit.</p> <p>[N.J.A.C. 7:27-16.2(l)5]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	<p>If, on or after May 19, 2009, the owner or operator adds a domed roof to an external floating roof tank in Range III, at the time the owner or operator adds the domed roof the owner or operator shall:</p> <p>i. Equip the tank with a rim seal system consisting of primary and secondary seals meeting the specifications and compliance dates listed at N.J.A.C. 7:27-16.2(l)3 above; and</p> <p>ii. Ensure that the concentration of organic vapor in the vapor space above the domed external floating roof does not exceed 30 percent of its lower explosive limit. [N.J.A.C. 7:27-16.2(l)6]</p>	None.	None.	None.
35	<p>Any VOC stationary storage tank in Range III as determined from Table 2A shall meet one of the following:</p> <p>i. If the tank was constructed or installed on or after December 17, 1979, the tank shall be provided with a double seal floating roof or other control apparatus approved by the Department as being equally or more effective in preventing the emission of any VOC into the outdoor atmosphere. This requirement shall remain in effect for any such tank until N.J.A.C. 7:27-16.2(l)3, 5, 6 or 7 above becomes applicable for that tank; or</p> <p>ii. If the tank was constructed or installed prior to December 17, 1979, the requirements of N.J.A.C. 7:27-16.2(l)3, 5, 6 or 7 above shall apply as applicable. [N.J.A.C. 7:27-16.2(l)8]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	When performing a roof landing of an external floating roof tank: 1. When the roof is resting on the leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and 2. Any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C. 7:27-16.2(n)]	None.	None.	None.
37	The permittee shall perform inspection by an authorized inspector. [N.J.A.C. 7:27-16.2(r)]	Other: Perform inspection by an authorized inspector and maintain the tank, Annually. During the inspection, the authorized inspector performing the inspection must have a copy of the relevant portions of the Operating Permit pertinent to the tank being inspected. The authorized inspector shall compare the permit to the existing tank and actual operating conditions of the tank. [N.J.A.C. 7:27-16.2(r)1], [N.J.A.C. 7:27-16.2(r)2] , [N.J.A.C. 7:27-16.2(r)3] &[N.J.A.C. 7:27-16.2(r)4].	Other: Annually complete all necessary calculations and record all required data accordingly in the Inspection Form and Fugitive Emissions Form at N.J.A.C. 7:27-16 Appendix II. Record any discrepancies between the permit equipment description and the existing tank, or the permit conditions and the actual operating conditions of the tank, as verified during an inspection, in section J "Comments" of the Inspection Form. Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)2], [N.J.A.C. 7:27-16.2(r)4], &[N.J.A.C. 7:27-16.2(s)5].	None.
38	The permittee shall record on the Inspection Form at N.J.A.C. 7:27-16 Appendix II, the findings of any tank inspection, whether completed or not. [N.J.A.C. 7:27-16.2(r)1]	None.	Other: The findings of any tank inspection, whether completed or not, shall be recorded on the Inspection Form at N.J.A.C. 7:27-16 Appendix II. If an inspection is stopped before completion, indicate the reason for this action in section J "Comments" of the Inspection Form. Maintain all inspection reports for the lifetime of each tank. [N.J.A.C. 7:27-16.2(r)1] &[N.J.A.C. 7:27-16.2(s)5].	None.
39	The permittee shall have an authorized inspector annually inspect the ground level periphery of each tank for possible leaks in the tank shell. [N.J.A.C. 7:27-16.2(r)3]	Other: Annually inspect the ground level periphery of each tank for possible leaks in the tank shell.[N.J.A.C. 7:27-16.2(r)3].	Other: Complete section D "Ground Level Inspection" of the Inspection Form. Maintain all inspection reports for the lifetime of each tank.[N.J.A.C. 7:27-16.2(r)3].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	Annually complete all necessary calculations and record all required data accordingly in the Inspection Form and Fugitive Emissions Form at N.J.A.C. 7:27-16 Appendix II; [N.J.A.C. 7:27-16.2(r)4]	None.	None.	None.
41	For an external floating roof tank in Range III, demonstrate compliance with N.J.A.C. 7:27-16.2(l)1 through 3 above, as applicable, by: i. Annually, from the platform, visually inspecting the roof to check for permit and rule violations, and visually checking the roof for unsealed roof legs, open hatches, open emergency roof drains, or open vacuum breakers. Indicate presence of any tears in the fabric of the visible seal. Record the findings under section F of the Inspection Form; ii. Annually, inspecting the deck fittings for visible gaps using the 1/8 inch probes, or inspecting the deck fittings for a leak-free condition using EPA Method 21 set forth at 40 CFR Part 60 Appendix A, as supplemented or amended and incorporated herein by reference or, instead of EPA Method 21, using another method approved by the Department. Record any leaks above 500 ppm in the Fugitive Emissions Form; [N.J.A.C. 7:27-16.2(r)5]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	<p>iii. Annually, inspecting the entire secondary seal for the gap requirements at (l)3iv above using the 1/8 inch, 1/2 inch, and 1-1/2 inch probes. Record the gap data in section F(4) of the Inspection Form. Record all cumulative gaps between 1/8 inch and 1/2 inch, between 1/2 inch and 1-1/2 inch, and in excess of 1-1/2 inches, in section G of the Inspection Form. Measure all secondary seal gaps greater than 1/2 inch for length and width, and record in section J of the Inspection Form; and</p> <p>iv. Every five years and each time the tank is degassed, inspecting the entire primary seal for the gap requirements at (l)3iii above using the 1/8 inch, 1/2 inch and 1-1/2 inch probes. The primary seal shall be inspected by holding back the secondary seal. Record the gap data in section F(5) of the Inspection Form. Record all cumulative gaps between 1/8 inch and 1/2 inch; between 1/2 inch and 1-1/2 inch; and in excess of 1-1/2 inches, in section G of the Inspection Form; [N.J.A.C. 7:27-16.2(r)5]</p>	None.	None.	None.
43	<p>The permittee shall maintain records of all tank integrity testing schedules for Range III tanks that N.J.A.C. 7:1E-4.2(c)1v requires to be included in the "Discharge, Prevention, Containment and Countermeasure Plan" [N.J.A.C. 7:27-16.2(s)7]</p>	None.	<p>Other: Maintain records for 5 years. Records of all tank integrity testing schedules for Range III tanks that N.J.A.C. 7:1E-4.2(c)1v requires to be included in the "Discharge, Prevention, Containment and Countermeasure Plan" N.J.A.C.7:27-16.22(a) and[N.J.A.C. 7:27-16.2(s)7].</p>	None.



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**Subject Item:** GR3 NSPS Subpart A

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A for Hot Oil Heaters F-169P (E1602) and F-170P (E1603). [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Submit a report: As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
2	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)]
3	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)]
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 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)]

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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 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)]
6	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)]
7	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	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.
9	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.
10	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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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
11	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.

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**Subject Item: GR4 MACT SUBPART A**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.
2	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
3	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, 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 (including the startup, shutdown, and malfunction plan required in 40 CFR 63.6(e)(3), review of operation and maintenance records, and inspection of the source. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
4	The owner or operator shall correct malfunctions as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, the owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices. [40 CFR 63.6(e)(1)(ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	The owner or operator of an affected source must develop a written startup, shutdown, and malfunction (SSM) plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard. The SSM plan does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard. This plan must be developed by the owner or operator by the source's compliance date for that relevant standard. [40 CFR 63.6(e)(3)(i)]	None.	Other: The owner or operator shall maintain relevant records described in 40 CFR 63.10(b)(2)(i) through (2)(v) for a period of 5 years following the occurrence. Those records include the occurrence and duration of each startup or shutdown when it causes the source to exceed any applicable limitation in the relevant emission standards; the occurrence and duration of each malfunction of operation or the required air pollution control and monitoring equipment; all required maintenance performed on the air pollution control and monitoring equipment; and corrective actions taken during periods of those startups, shutdowns or malfunction. [40 CFR 63.10(b)(2)].	None.
6	The owner or operator of an affected source must keep records of actions taken during a startup, shutdown (and the startup or shutdown causes the source to exceed any applicable limitation in the relevant emission standards), or malfunction, which are consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan, including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. [40 CFR 63.6(e)(3)(iii)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain all information necessary, including actions taken, to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. [40 CFR 63.10(b)(2)(v)]	Submit a report: Semiannually beginning within 6 months of initial start-up. The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. The report shall be delivered by the 30th day following the end of each calendar half. The report shall only be required if a startup, shutdown caused the source to exceed any applicable emission limitation in the relevant standard, or if a malfunction occurred during the reporting period, provided the actions taken by the owner or operator are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan. [40 CFR 63.10(d)(5)(i)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator of an affected source must record the actions taken during a startup, shutdown or malfunction during which the source exceeds any applicable emission standard and those actions are not consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan. The owner or operator must report such actions to the Administrator. [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain records of actions taken during periods of startup or shutdown when the source exceeded applicable emission limitations in a relevant standard and when the actions taken are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; or actions taken during periods of malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when the actions taken are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan. [40 CFR 63.10(b)(2)(iv)]	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]
8	The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying to the Administrator. In addition, if the startup, shutdown, and malfunction plan is subsequently revised as provided in 40 CFR 63.6(e)(3)(viii), the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the startup, shutdown, and malfunction plan, and must make each such previous version available for inspection and copying by the Administrator for a period of 5 years after revision of the plan. [40 CFR 63.6(e)(3)(v)]	None.	None.	Submit recordkeeping format: Upon occurrence of event. The Administrator may at any time request in writing that the owner or operator submit a copy of any startup, shutdown, and malfunction plan (or a portion thereof) which is maintained at the affected source or in the possession of the owner or operator. Upon receipt of such a request, the owner or operator must promptly submit a copy of the requested plan (or a portion thereof) to the Administrator. The owner or operator may elect to submit the required copy of any startup, shutdown, and malfunction plan to the Administrator in an electronic format. [40 CFR 63.6(e)(3)(v)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction (defined in 40 CFR 63.2), the owner or operator shall revise the plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events, and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment. [40 CFR 63.6(e)(3)(viii)]	None.	None.	Submit a report: As per the approved schedule. Each revision to a startup, shutdown, and malfunction plan must be reported in the semiannual report required by 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(viii)]
10	The nonopacity emission standards shall apply all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
11	The opacity and visible emissions standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(h)(1)]	None.	None.	None.
12	The owner or operator of an affected source shall notify the Administrator in writing of the date for conducting opacity or visible emission observations, if such observations are required for the source by a relevant standard. [40 CFR 63.6(h)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each occurrence, measurement, maintainance, corrective action, report, record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 60 calendar days before the performance test is scheduled or within 30 days before the opacity or visible emissions are scheduled, if no performance test is required. [40 CFR 63.9(e)(f)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	The owner or operator of an affected source shall conduct opacity or visible emission observations if a relevant standard includes an opacity or visible emission standard. [40 CFR 63.6(h)(5)(i)]	Monitored by visual determination once initially, based on 6 minute blocks. Conducting observations in accordance with Test Method 9, for opacity and Test Method 22, for visible emissions, if no test method is specified. The minimum total time of opacity observations shall be 3 hours (30 6-minute averages). [40 CFR 63.6(h)(5)(ii)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Other (provide description): As per the approved schedule. The opacity and visible observations shall be conducted concurrently with the initial performance test required in 40 CFR 63.7. If no performance test is required, conduct these observations within 120 days after the compliance date for an existing or modified source. If visibility or other conditions prevent the opacity or visible emission observations from being conducted, the owner or operator shall conduct the opacity or visible emission observations not later than 30 days thereafter. [40 CFR 63.6(h)(5)(i)]
14	The owner or operator of an affected source shall submit the results of the opacity or visible emissions observations to the Administrator. [40 CFR 63.6(h)(5)(iii)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The owner or operator shall submit the results before the close of business on the 30th day following the completion of the observations, if no performance test is required. The owner or operator shall submit the results before the close of business on the 60th day following the completion of the performance test. [40 CFR 63.10(d)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator of an affected source required to use a continuous opacity monitoring system (COMS) shall record the monitoring data produced during a performance test and submit the monitoring results to the Administrator. [40 CFR 63.6(h)(7)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The report shall be submitted before the close of business on the 60th day following the completion of the performance test, simultaneously with the report of the performance test results. [40 CFR 63.10(e)(4)]
16	The owner or operator of an affected source who elects to submit continuous opacity monitoring system (COMS) data for compliance with opacity emission standard shall notify the Administrator. [40 CFR 63.6(h)(7)(ii)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for inspection. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The owner or operator shall submit the notification at least 60 calendar days before the performance test is scheduled. [40 CFR 63.9(g)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator of an affected source required to do performance testing under a relevant standard shall conduct a performance test. Each performance test shall consist of three (3) separate runs and the arithmetic mean of the results of the three runs shall apply as specified in 40 CFR 63.7(e)(3). [40 CFR 63.7(a)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Conduct a performance test: As per the approved schedule. Within 180 days of the compliance date of the source. [40 CFR 63.7(a)(2)]
18	The owner or operator of an affected source must notify the Administrator in writing before the performance test is scheduled. [40 CFR 63.7(b)(1)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information, including all reports and notifications, required by 40 CFR 63 in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. At least 60 days before the performance test is initially scheduled. The owner or operator shall notify the Administrator as soon as practicable and without delay prior to the scheduled test and specify the date when the performance test is rescheduled, if the owner or operator is unable to conduct the performance test as initially scheduled. [40 CFR 63.7(b)(1)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator of an affected source shall develop, before conducting a required performance test and, if requested by the Administrator, shall submit a site-specific plan to the Administrator for approval. The test plan shall include: test program summary, test schedule, data quality objectives, and an internal and external quality assurance (QA) program. [40 CFR 63.7(c)(2)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) at no required frequency. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for inspection. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a plan: As per the approved schedule. The site- specific test plan shall be submitted upon the Administrator's request at least 60 calendar days before the performance test is scheduled. [40 CFR 63.7(c)(2)(iv)]
20	The owner or operator of an affected source must analyze performance audit (PA) samples during each performance test. The owner or operator must request performance audit materials 30 days prior to the test date. [40 CFR 63.7(c)(4)(i)]	None.	None.	None.
21	The owner or operator shall conduct the performance test under such conditions as the Administrator specifies based on representative performance. Upon request, the owner or operator shall make available to the Administrator such record. [40 CFR 63.7(e)(1)]	None.	None.	None.
22	The owner or operator of an affected source shall report the results of the performance test to the Administrator. [40 CFR 63.7(g)(1)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Results of performance test shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The owner or operator shall report the results of the performance test before the close of business on the 60th day following the completion of performance test. [40 CFR 63.10(d)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
24	The owner or operator of an affected source must install an applicable continuous monitoring system (CMS) at each emission point, if the relevant standard is a mass emission standard. [40 CFR 63.8(b)(2)(ii)]	None.	None.	None.
25	The owner or operator using more than one continuous monitoring system (CMS) to measure the emission from one affected source shall report the results as required, for each CMS. [40 CFR 63.8(b)(3)]	None.	None.	None.
26	The owner or operator of an affected source must maintain and operate each continuous monitoring system (CMS) as specified in 40 CFR 63.6(e)(1). [40 CFR 63.8(c)(1)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain records of all CMS malfunction or inoperative periods (including out of control periods), all maintenance and adjustments performed for CMS as specified in 40 CFR 63.10(b) and (c). The reports shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The report shall be delivered by the 30th day following the end of each calendar half. The report shall consist of a letter containing: name, title, and signature of the owner or operator. [40 CFR 63.10(d)(5)(I)]
27	The owner or operator of an affected source must keep the necessary parts for routine repairs of the affected continuous monitoring system (CMS) equipment readily available. [40 CFR 63.8(c)(1)(ii)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
28	The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan for continuous monitoring system (CMS) as specified in 40 CFR 63.6(e)(3). [40 CFR 63.8(c)(1)(iii)]	None.	None.	None.
29	All continuous monitoring system (CMS) must be installed such that representative measures of emissions from the affected source are obtained. In addition all CEMS must be located according to the procedures in the applicable performance specifications. [40 CFR 63.8(c)(2)(i)]	None.	None.	None.
30	The continuous monitoring system (CMS), including continuous opacity monitoring system (COMS) and CEMS, shall be operated at all times except for: breakdowns, out of control periods, repairs, maintenance, calibration checks and zero and high level calibration drifts adjustments. The CMS shall meet minimum frequency of operation requirements as described in 40 CFR 63.8(c)(4)(i) and (ii). [40 CFR 63.8(c)(4)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	The owner or operator of a continuous monitoring system (CMS) (that is not a continuous parameter monitoring system (CPMS) must check the zero (low level) and high level calibration drifts at least once daily. The zero (low level) and high level calibrations drifts must be adjusted, at minimum, whenever the 24-hour zero (low level) drift exceeds two times the limits. The system shall allow the amount of excess zero ( low level) and high -level drift measured at 24- hour interval checks to be recorded and quantified. For continuous opacity monitoring system (COMS), the optical surfaces and instrumental surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity. The CPMS must be calibrated prior to use and must be checked daily. [40 CFR 63.8(c)(6)]	None.	None.	None.
32	The owner or operator of the affected source shall take corrective action and conduct retesting, when the continuous monitoring system (CMS) is out of control. [40 CFR 63.8(c)(7)(ii)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The owner or operator of a continuous monitoring system (CMS) shall report all out-of-control periods. [40 CFR 63.8(c)(8)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain records all CMS malfunction or inoperative periods (including out of control periods), all maintenance and adjustments performed for CMS as specified in 40 CFR 63.10(b) and (c). The reports shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit a report: As per the approved schedule. The report shall be delivered by the 30th day following the end of each calendar half. The report shall consist of a letter containing: name, title, and signature of the owner or operator. [40 CFR 63.10(e)(3)]
34	The owner or operator of an affected source that is required to use a continuous monitoring system (CMS) and is subject to monitoring requirements shall develop and implement a CMS quality control program including a site- specific performance evaluation test plan. In addition, each quality control program shall include at minimum as specified in paragraph 40 CFR 63.8(d)(2)(i) to (vi). [40 CFR 63.8(d)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall keep these written procedures on record for the life of the affected source and make available for inspection upon request. The owner or operator shall keep the previous version of the plan for a period of 5 years after each revision. [40 CFR 63.8(d)(3)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	The owner or operator of an affected source shall notify the Administrator in writing of the date of performance evaluation test. [40 CFR 63.8(e)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The owner or operator shall submit the notification within 60 days prior to the performance evaluation date or to the performance test date. [40 CFR 63.8(e)(2)]
36	The owner or operator of an affected source shall develop and submit a site-specific performance evaluation test plan to the Administrator for approval upon request. The performance evaluation test plan shall include the information as specified in paragraph 40 CFR 63.8(e)(3)(i). [40 CFR 63.8(e)(3)(i)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall keep these written procedures on record for the life of the affected source and make available for inspection upon request. The owner or operator shall keep the previous version of the plan for a period of 5 years after each revision. [40 CFR 63.8(d)(3)]	Submit a plan: As per the approved schedule. If requested, the owner or operator shall submit the site-specific performance evaluation test plan at least 60 days before the performance test or performance evaluation is scheduled. [40 CFR 63.8(e)(3)(iii)]
37	The owner or operator of an affected source that is required to use a continuous monitoring system (CMS) shall conduct a performance evaluation of the CMS as specified in 40 CFR 63.8(e)(4). [40 CFR 63.8(e)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The owner or operator shall maintain files of all information recorded in a form suitable and readily available for inspection. The files shall be retained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Conduct a performance test: As per the approved schedule. The performance evaluation shall be conducted within 180 days after the compliance date of the source if no performance test is required. The performance evaluation shall be conducted as specified in 40 CFR 63.7 if a performance test is required. The performance evaluation shall be conducted before the performance test if the owner or operator elects to submit continuous opacity monitoring system (COMS) data for compliance with a relevant opacity standard. [40 CFR 63.8(e)(4)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	The owner or operator of an affected source shall submit to the Administrator the results of the performance evaluation. [40 CFR 63.8(e)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Results of performance evaluation test shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit test results: As per the approved schedule. Within 60 days of the test, if no performance test is required, or before the close of business on the 60th day following the completion of performance test, if a performance test is required. The owner or operator using a continuous opacity monitoring system (COMS) during any performance test, shall submit three copies of the report of the results of COMS, within 15 calendar days before the performance test. [40 CFR 63.8(e)(5)(i)]
39	The owner or operator of each continuous opacity monitoring system (COMS) shall reduce the monitoring data. All data shall be reduced to 6- minute averages calculated from 36 or more data points equally spaced over each 6-minute period. [40 CFR 63.8(g)(2)]	None.	None.	None.
40	The owner or operator of each CEMS shall reduce the monitoring data. All CEMS data for measurement other than opacity, shall be reduced to 1-hour averages computed from four or more points equally spaced over each 1-hour period, except during calibration, quality assurance, or maintenance periods, when a valid hourly average shall consist of at least two data points with each representing a 15- minute period. [40 CFR 63.8(g)(2)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	The owner or operator of an affected source shall notify the Administrator that the source becomes subject to a relevant standard. The notification shall include the information as specified in 40 CFR 63.9(b)(2). [40 CFR 63.9(b)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. Within 120 calendar days after the source becomes subject to the relevant standard, if initial startup of the affected source is before the effective date of the standard. [40 CFR 63.9(b)(2)]
42	The owner or operator of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, reconstruct a major emitting affected source, or reconstruct a major source that becomes a major- emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. . [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be submitted before start-up but not later than 60 days after the effective date of a relevant standard. [40 CFR 63.5(d)(1)(i)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	The owner or operator of a new or reconstructed affected source for which an application for approval of construction or reconstruction is not required under 63.5 must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source: notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]
44	The owner or operator of an affected source before a title V permit has been issued, shall submit to the Administrator a notification of compliance status. The notification shall list all the information as specified in 40 CFR 63.9(h)(2)(i) and be signed by responsible official. [40 CFR 63.9(h)(2)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. Notification records shall be maintained for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall must be sent before the close of business on the 60th day following the completion of the relevant compliance demonstration. [40 CFR 63.9(h)(2)(ii)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. The owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]

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Facility Specific Requirements**

**Subject Item:** GR5 MACT Subpart ZZZZ<500hp

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2c, item 1a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement, per 40 CFR 63.6625(i). The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
2	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2c, item 1b and 1c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
3	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(a)]	None.	None.	None.

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Facility Specific Requirements**

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



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 63.6640(f)(2i)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(1)]	None.
8	The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]	None.	None.	None.

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**Subject Item: GR6 MACT Subpart DDDDD**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	At all times, the permitte must operate and maintain any affected source (as defined in 40 CFR 63.7490), 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 that 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 DDDDD) [40 CFR 63.7500(a)(3)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>You must complete the one-time energy assessment specified in Table 3 to 40 CFR 63 Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495.</p> <p>If your unit is an existing boiler located at a major source facility, you must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3, satisfies the energy assessment requirement. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in 40 CFR 63.7495 that includes the affected units also satisfies the energy assessment requirement. [MACT Subpart DDDDD] [40 CFR 63.7510(e)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in 40 CFR 63.7575:</p> <ul style="list-style-type: none"> <li>a. A visual inspection of the boiler or process heater system.</li> <li>b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.</li> <li>c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.</li> <li>d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.</li> <li>e. A review of the facility's energy management program and provide recommendations for improvements consistent with the definition of energy management program, if identified.</li> <li>f. A list of cost-effective energy conservation measures that are within the facility's control.</li> <li>g. A list of the energy savings potential of the energy conservation measures identified.</li> <li>h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.</li> </ul> <p>[40 CFR 63.7510(e)]</p>	<p>Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration</p> <p>(8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i)-(vi). You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.</p> <p>Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up. The first annual tune-up must be no later than 13 months after the initial startup of the new or reconstructed affected source.</p> <p>If your boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in paragraph 40 CFR 63.7540(a)(12)), you must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs 40 CFR 63.7540(a)(10)(i) through (vi) to demonstrate continuous compliance.</p> <p>Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. The first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed affected source.</p> <p>(continued) (MACT Subpart DDDDD) [40 CFR 63.7515(d)], [40 CFR 63.7540(a)(10)], &amp; [40 CFR 63.7540(a)(11)]</p>	<p>Monitored by periodic emission monitoring upon occurrence of event. Annually or biennially, as applicable, measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(a)(10)(v)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Annually or biennially, as applicable, maintain on-site and submit, if requested by the Administrator, a report containing the following information:</p> <p>(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;</p> <p>(B) A description of any corrective actions taken as a part of the tune-up; and</p> <p>(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.</p> <p>The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.10(b)(1)] &amp;. [40 CFR 63.7540(a)(10)(vi)]</p>	<p>Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration</p> <p>(8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>(continued)</p> <p>The tune-ups shall be conducted as follows:</p> <p>(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;</p> <p>(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;</p> <p>(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;</p> <p>(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject. (MACT Subpart DDDDD) [40 CFR 63.7515(d)], [40 CFR 63.7540(a)(10)], &amp; [40 CFR 63.7540(a)(10)]</p>	<p>Monitored by periodic emission monitoring upon occurrence of event. Annually or biennially, as applicable, measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.7540(a)(10)(v)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Annually or biennially, as applicable, maintain on-site and submit, if requested by the Administrator, a report containing the following information:</p> <p>(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;</p> <p>(B) A description of any corrective actions taken as a part of the tune-up; and</p> <p>(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.</p> <p>The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.10(b)(1)] &amp;. [40 CFR 63.7540(a)(10)(vi)]</p>	<p>Submit notification: Once initially. Submit a Notification of Compliance status for existing sources within 60 days of January 31, 2016 that includes the information in 40 CFR 63.7545(e)(1) and (e)(8) as follows:</p> <p>(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration</p> <p>(8) In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance, as applicable, and signed by a responsible official as described in 40 CFR 63.7545(e)(8)((i)-(iii). [40 CFR 63.7545(e)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>As specified in 40 CFR 63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013, or no later than 120 days after the source becomes subject to 40 CFR 63 Subpart DDDDD, whichever is later.</p> <p>As specified in 40 CFR 63.9(b)(4) and (5), if you startup your new or reconstructed affected source on or after January 31, 2013, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source. For a new or reconstructed affected source that has reclassified to major source status, you must submit an Initial Notification not later 120 days after the source becomes subject to this subpart. (MACT Subpart DDDDD) [40 CFR 63.7545(b)] &amp; [40 CFR 63.7545(c)]</p>	None.	None.	<p>Submit notification: Once initially within 120 days after January 31, 2013 or 15 days after the actual date of startup, whichever is later, to the Administrator, EPA Region 2, certified by the responsible official. The Initial Notification shall also be submitted to NJDEP, per 40 CFR 63.13. [N.J.A.C. 7:27-22.16(o)], [40 CFR 63.7545(b)], &amp; [40 CFR 63.7545(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>For units that are subject only to a requirement to conduct subsequent annual or biennial tune-up according to 40 CFR 63.7540(a)(10) or (11), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual or biennial compliance report, as applicable, as specified in 40 CFR 63.7550(b)(1) through (4), instead of a semi-annual compliance report.</p> <p>The report must contain the following information:</p> <p>(1) Company and Facility name and address.  (2) Process unit information, emissions limitations, and operating parameter limitations  (3) Date of report and beginning and ending dates of the reporting period.  (4) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual or biennial tune-up according to 40 CFR 63.7540(a)(10) or (11) respectively. Include the date of the most recent burner inspection if it was not done annually or biennially and was delayed until the next scheduled or unscheduled unit shutdown.  (5) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. (MACT Subpart DDDDD) [40 CFR 63.7550(b)] &amp; [40 CFR 63.7550(c)]</p>	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain files of all required information (including all reports and notifications) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)]	Submit a report: As per the approved schedule. You must submit all reports required by Table 9 of 40 CFR 63 Subpart DDDDD electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for 40 CFR 63 Subpart DDDDD. Instead of using the electronic report in CEDRI for 40 CFR 63 Subpart DDDDD, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site ( <a href="http://www.epa.gov/ttn/chief/cedri/index.htm">http://www.epa.gov/ttn/chief/cedri/index.htm</a> ) once the XML schema is available. If the reporting form specific to 40 CFR 63 Subpart DDDDD is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]
7	The owner or operator of a boiler or process heater shall comply with the applicable General Provisions in 40 CFR 63 Subpart A as listed in Table 10 in 40 CFR 63 Subpart DDDDD. (MACT Subpart DDDDD) [40 CFR 63.7565]	None.	None.	None.

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Emission Unit: U10 Wharf MACT Subpart Y

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Conduct a comprehensive stack test for each of Stack 173B (PT1002) and Stack 173 PT1001) using an approved protocol at least 12 months prior to the expiration of the approved renewal operating permit which expires on 2/3/20 and 18 months prior to the expiration date for each permit thereafter to demonstrate compliance with the O <sub>2</sub> , NO <sub>x</sub> , VOC and CO emission limits, and the 3.0 mg/L effluent VOC concentration for the primary control device for operating scenarios OS Summary and OS1-OS4, OS5-OS8. Testing must be conducted at worst-case permitted operating conditions for each stack at the corresponding design capacity of the control device associated with each stack with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for carbon monoxide, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <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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2	Opacity <= 20 % exclusive of visible condensed water vapor, for more than 3 minutes in any consecutive 30-minute period. Compliance with this provision shall be verified visually by the use of the New Jersey Test Method 2 (N.J.A.C. 7:27B-2). [N.J.A.C. 7:27-22.16(e)]	Opacity: Monitored by visual determination once per shift during operation, based on any consecutive 30-minute period. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual logging in a logbook or electronic data storage the following records: (1) Date and time of inspection; (2) Emission Point number or name; (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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3	Significant sources regulated in this emission unit (U10 - Wharf) include Berth 1 (E1001), Berth 3 (E1002), Berth 2 (E1005), and Berth 4(E1006) when they are transferring applicable VOCs and using the 16k BPH(barrels per hour) Marine Vapor Control (CD1002) or the 12k BPH(barrels per hour) Marine Vapor Control (CD1001). Berths 1, 3, 2, and 4 are not regulated when transferring non-applicable VOCs because the emissions are released from open hatches or vents of barges or tankers in navigable water from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	VOC (Total) <= 3 mg/liter of liquid loaded The permittee shall install and operate a control apparatus (CD1002 and CD1001), which reduces the total VOC emissions to the outdoor atmosphere resulting from gasoline and other applicable VOC transfers at the facility by no less than the specified amount. [N.J.A.C. 7:27-16.5(b)] &. [N.J.A.C. 7:27-16.5(c)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs See OS Summary for stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event See OS Summary for stack testing requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See OS Summary for stack testing requirements. [N.J.A.C. 7:27-22.16(o)]
5	VOC Control Efficiency >= 95 % by weight. Each of the 16k BPH control device(CD1002) and the 12k BPH control device (CD1001) operate in a manner, which reduces the total VOC emissions to the outdoor atmosphere resulting from gasoline and other applicable VOC transfers at the facility by no less than the specified amount. [N.J.A.C. 7:27-16.5(b)] &. [N.J.A.C. 7:27-16.5(c)]	None.	None.	None.
6	Ballasting shall only be conducted in dedicated ballast tanks that never contain anything other than water. [N.J.A.C. 7:27-16.5(a)2]	None.	None.	None.

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7	Effective on July 26, 1994, the Department shall not approve an application for a permit for equipment or control apparatus, required pursuant to (b) or (c) above, unless: 1. The system has been designed to collect and control the emissions of applicable VOC resulting from ballasting; or 2. The potential to emit VOC from ballasting is limited to less than two pounds of VOC per 1,000 barrels of ballast transferred. [N.J.A.C. 7:27-16.5(d)]	None.	None.	None.
8	If a marine tank vessel and a marine terminal is equipped with a control apparatus, no person shall cause, suffer, allow, or permit ballasting to be conducted on a marine tank vessel at a marine terminal unless: 1. The ballasting is conducted in dedicated ballast tanks that use only water; 2. The control apparatus is used during ballasting; or 3. The potential to emit VOC from ballasting is less than two pounds of VOC per 1,000 barrels of ballast transferred. [N.J.A.C. 7:27-16.5(e)]	None.	None.	None.
9	The permittee shall not cause, suffer or allow the transfer of any applicable VOC or ballasting if the delivery vessel being loaded, any control apparatus, or other equipment serving the transfer has a leak which results in a concentration of VOC greater than or equal to 100% of the LEL of propane when measured at a distance of 1 inch (1") or less from the source. [N.J.A.C. 7:27-16.5(f)1i]	Other: Monitored by visual determination, once per load during operation. The permittee shall inspect any control apparatus and other equipment serving the transfer operation for leaks prior to beginning and during the transfer. Upon detection of a leak, the permittee has the option of verification of the leak with a portable instrument according to EPA's Reference Method 21 (40 CFR Part 60 Appendix A), or discontinuing the loading operation until the leak is repaired. The owner or operator shall verify that the delivery vessel was tested for leaks prior to beginning the transfer (i.e. vessel's Certificate of Inspection has been endorsed as meeting the requirements of vapor control regulations).[N.J.A.C. 7:27-16.5(g)].	Other: Recordkeeping by completion of forms documenting United States Coast Guard Declaration of Inspection requirements for each transfer.[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	The permittee shall not cause, suffer, allow or permit the transfer of any applicable VOC or ballasting to the delivery vessel being loaded, if any control apparatus, or other equipment serving the transfer has a liquid leak of applicable VOC. [N.J.A.C. 7:27-16.5(f)1ii]	Other: The permittee shall inspect the transfer marine tank vessel, delivery vessel and control apparatus for liquid leaks by visual determination prior to beginning and during transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by completion of forms documenting United States Coast Guard Declaration of Inspection requirements for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
11	The permittee shall not cause, suffer, allow or permit the transfer of any applicable VOC or ballasting if any component of the marine tank vessel or any control apparatus serving the source operation is not installed and operating as designed. [N.J.A.C. 7:27-16.5(f)2]	Other: The permittee shall conduct a visual inspection of the transfer marine tank vessel, delivery vessel and control apparatus prior to beginning transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by completion of forms documenting U.S. Coast Guard Declaration of Inspection requirements for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total): The permittee shall not cause, suffer, allow or permit the transfer of any applicable VOC or ballasting if the transfer results or would result in a liquid VOC spill. [N.J.A.C. 7:27-16.5(f)3]	Other: The permittee shall conduct a visual inspection of the transfer marine tank vessel, delivery vessel and control apparatus prior to beginning and during transfer.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by completion of forms documenting U.S. Coast Guard Declaration of Inspection requirements for each transfer.[N.J.A.C. 7:27-22.16(o)].	None.
13	Any testing to determine VOC emissions during the transfer of VOC to a marine tank vessel, conducted in order to determine compliance with this section, shall be performed for at least 60 minutes during the transfer of the last 50 percent of total liquid cargo. For a transfer operation for which the transfer of the last 50 percent of the total liquid cargo is less than a 60 minute duration, the testing shall be performed during the transfer of the entire last 50 percent of the total liquid cargo. Testing to determine emissions of VOC shall be carried out in accordance with: 1. New Jersey Air Test Method 3 (N.J.A.C. 7:27B-3); 2. EPA's Reference Method 25 or 25(a) (40 CFR-Part 60-Appendix A); or 3. Any other equivalent test method approved in advance in writing by the Department and acceptable to EPA. [N.J.A.C. 7:27-16.5(h)] & [N.J.A.C. 7:27-16.5(i)]	None.	None.	None.

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14	The owner or operator of a marine terminal shall maintain at the marine terminal records sufficient to demonstrate compliance with N.J.A.C. 7:27-16.5. Any records required by this section shall be made available to the Department upon request and shall be maintained for five years. [N.J.A.C. 7:27-16.5(j)]	Other: monitored by review of process records.[N.J.A.C. 7:27-16.5(j)].	Other: Manual logging on marine terminal transfer records or electronic data storage for each transfer of gasoline or other applicable VOC to the marine tank vessel and for performance of ballasting on a marine tank vessel at the marine terminal, the records shall include the following information: 1. The company name and address of the marine terminal; 2. The date; 3. The name and registry of the marine tank vessel; 4. For any transfer operation, the type of VOC and the quantity, in gallons or liters, loaded into the marine tank vessel; 5. The prior cargo carried by the marine tank vessel and the condition (that is, cleaned, crude oil washed, gas freed, etc.) of the cargo tanks on the marine tank vessel prior to their being loaded or ballasted; and 6. For ballasting, the amount of ballast water or other liquid added to ballast tanks which are unsegregated and which may contain VOC vapor.[N.J.A.C. 7:27-16.5(j)].	None.
15	Marine loading of "applicable VOC" liquids (naptha, gasoline, and crude oil) is permitted provided that the vapors are directed to the marine vapor control system. All other VOC liquids that are non "applicable VOCs" may be loaded without the use of emission control. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by lab analysis, assay reports, or standard product vapor pressure data for low vapor pressure material once for each petroleum hydrocarbon liquid marine loaded. Verification of material loaded is monitored by marine transfer records.[N.J.A.C. 7:27-22.16(o)].	Other: Manual logging on marine transfer records or electronic data storage of the material which was marine loaded.[N.J.A.C. 7:27-22.16(o)].	None.
16	Total Material Transferred <= 1,176 Mgals per hour. The maximum applicable VOC loading rate for any one-hour period, based on a design pumping rate of 28,000 barrels per hour based on the total control device processing capacity from operating both the 16k BPH (CD1002) and 12BPH (CD1001). [N.J.A.C. 7:27-22.16(a)]	Other: Tank Gauging System. Maximum loading rate set by facility and vessel pretransfer agreement. Monitoring of actual loading rate based on calculations from tank gauging for each 2 hour period.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by manual logging of pre-transfer agreement of maximum transfer rate on marine transfer records. Calculated loading rates will be logged manually or electronically.[N.J.A.C. 7:27-22.16(e)].	None.

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17	Total Material Transferred <= 1,762.95 MMgal/yr. Maximum applicable VOC throughput for each calendar year. [N.J.A.C. 7:27-22.16(a)]	Other: Tank gauging system. Monitoring by calculation of total quantity loaded for each marine transfer and recorded with marine transfer documentation.[N.J.A.C. 7:27-22.16(e)].	Other: Manual logging or electronic data storage of the quantity of each marine transfer of applicable VOC and the year-to-date number of gallons transferred. Monthly.[N.J.A.C. 7:27-22.16(o)].	None.
18	All air-contaminant emissions from loading applicable VOC as cargo on marine vessels shall be directed to the thermal oxidizer. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
19	The thermal oxidizers shall provide a maximum VOC emission rate of <= 3.0 milligrams per liter of applicable VOC loaded. [N.J.A.C. 7:27-22.16(a)]	Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs See stack testing requirements in U10, OS Summary. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event See stack testing requirements in U10, 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 in U10, OS Summary. [N.J.A.C. 7:27-22.16(o)]
20	The oxidizers shall operate at a minimum temperature of 1,500 degrees F with a minimum residence time of 0.5 seconds. [N.J.A.C. 7:27-22.16(e)]	Other: Temperature monitor and recorder with an alarm system. Continuously during applicable VOC loading operation. The sensor shall be installed at the exit of the combustion chamber and it shall be properly shielded from direct contact with the flame. The alarm shall be designed to be sounded when temperatures less than 1,500 F or the permitted operating temperature are detected at any time during transfer operations. The monitor current/voltage output shall be compatible with the Data Acquisition System (DAS).[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
21	Minimum Operating Temperature at the Outlet of the Thermal Oxidizer >= 1,500 degrees F.The oxidizers shall be operated at no less than 1,500 degrees F prior to start-up of the source operation(s). [N.J.A.C. 7:27-22.16(e)]	Other: Temperature monitor and recorder with an alarm system. Continuously during applicable VOC loading operation. The sensor shall be installed at the exit of the combustion chamber and it shall be properly shielded from direct contact with the flame. The alarm shall be designed to be sounded when temperatures less than 1,500 F or the permitted operating temperature are detected at any time during transfer operations. The monitor current/voltage output shall be compatible with the Data Acquisition System (DAS).[N.J.A.C. 7:27-22.16(e)].	Other: Data Acquisition System (DAS)/electronic data storage. Continuously.[N.J.A.C. 7:27-22.16(e)].	None.

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22	The oxidizers shall not be shutdown until the loading and vapor flow from the marine vessel has stopped, the system has been isolated from the source in accordance with the proper operation of the system, and all air contaminants have been purged from the air emissions handling systems. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
23	CO <= 100 ppmvd corrected to 7% O <sub>2</sub> concentration in the flue gas as determined by continuous emission monitoring. For O <sub>2</sub> concentrations in the flue gas greater than 14%, the maximum allowable concentration of CO is 50 ppmvd, uncorrected for O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitoring system continuously during any 60 minute period. The permittee shall install, calibrate, operate, certify and maintain continuous emission monitors and continuous data recorders downstream from the thermal oxidizer to continuously measure and continuously record the concentrations of CO and O <sub>2</sub> from the stack. The continuous emission monitors and recorders shall conform to the performance and siting specified in 40 CFR 60, Appendix B and F, as applicable. These monitors and recorders shall be operated at all times when gasoline and other applicable VOCs are being loaded.  [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): 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)]
24	VOC (Total) <= 27.31 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	TSP <= 1.37 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	PM-10 (Total) <= 1.37 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	HAPs (Total) <= 0.26 tons/yr Annual emission limit (based on maximum annual throughput) from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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28	Benzene <= 0.26 tons/yr. Annual emission limit (based on maximum annual throughput) from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	CO <= 73.6 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002.. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	NOx (Total) <= 29.44 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
31	SO2 <= 19.9 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	H2S <= 0.11 tons/yr Annual emission limit (based on maximum annual throughput) from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	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(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports.[N.J.A.C. 7:27-22.16(o)].	None.
34	The provisions of MACT Subpart Y below shall only apply to loadings of materials with a vapor pressure of greater than 1.5 psia at 20 degrees C and 760 mm Hg pressure, per 40CFR 63.560(d). [40 CFR 63.560(d)]	None.	None.	None.



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35	<p>The owner or operator shall equip each terminal with a vapor collection system that is designed to collect HAP vapors displaced from marine tank vessels during loading operations. The system shall also be designed to prevent HAP vapors collected at one loading berth from passing through another loading berth to the atmosphere.</p> <p>There are three monitoring, recordkeeping, submittal/action options for this requirement. The facility shall comply with Ref#36 or Ref#37 or Ref#38.</p> <p>[40 CFR 63.562(c)(1)(i)]</p>	<p>Measure the vent stream flowrate of each by-pass line once every 15 minutes. Monitored by flue gas flow rate instrument every 15 minutes, based on an instantaneous determination. [40 CFR 63.564(b)(1)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each quarter hour during operation. Record the vent stream flowrate of each by-pass line once every 15 minutes.</p> <p>. [40 CFR 63.564(b)(1)]</p>	None.
36	<p>The owner or operator shall equip each terminal with a vapor collection system that is designed to collect HAP vapors displaced from marine tank vessels during loading operations. The system shall also be designed to prevent HAP vapors collected at one loading berth from passing through another loading berth to the atmosphere.</p> <p>There are three monitoring, recordkeeping, submittal/action options for this requirement. The facility shall comply with Ref#36 or Ref#37 or Ref#38.</p> <p>[40 CFR 63.562(c)(1)(i)]</p>	<p>Monitored by flue gas flow rate instrument every 15 minutes, based on an instantaneous determination. Measure the vent stream flowrate of each by-pass line once every 15 minutes. [40 CFR 63.564(b)(2)]</p>	None.	<p>Conduct an inspection: Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The alarm shall be checked every 6 months to demonstrate that it is functioning properly. [40 CFR 63.564(b)(2)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	<p>The owner or operator shall equip each terminal with a vapor collection system that is designed to collect HAP vapors displaced from marine tank vessels during loading operations. The system shall also be designed to prevent HAP vapors collected at one loading berth from passing through another loading berth to the atmosphere.</p> <p>There are three monitoring, recordkeeping, submittal/action options for this requirement. The facility shall comply with Ref#36 or Ref#37 or Ref#38.</p> <p>[40 CFR 63.562(c)(1)(i)]</p>	<p>Monitored by visual determination at the approved frequency. Visually inspect the seal or closure mechanism once during each marine tank vessel loading operation and at least once every month to ensure that the valve is maintained in the closed position and that the vent stream is not diverted through the by-pass line. [40 CFR 63.564(b)(3)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record all times when the car seals have been broken and the valve position has been changed. [40 CFR 63.564(b)(3)]</p>	None.
38	<p>The owner or operator shall limit marine tank loading operations to vessels that are vapor-tight and connected to the vapor collection system. [40 CFR 63.562(c)(2)(iii)]</p>	<p>Monitored by vapor-tightness testing upon occurrence of event. The owner or operator shall provide pressure test documentation for each marine tank vessel prior to loading. The date of the test listed in the documentation shall be within the preceding 12 months and shall have been conducted as specified at 40 CFR 63.565(c)(1). [40 CFR 63.563(a)(4)(i)]</p>	None.	None.
39	<p>HAPs <math>\geq</math> 98 % control from the marine tank loading operations. [40 CFR 63.562(c)(3)]</p>	<p>HAPs: Monitored by temperature instrument continuously, based on a 3 hour block average. The temperature monitor shall be installed at the exhaust point of the combustion device, but not within the combustion chamber. The monitor shall meet the accuracy requirements specified at 40 CFR 63.564(e)(4). [40 CFR 63.564(e)(3)]</p>	<p>HAPs: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage every 15 minutes. The DAS shall compute and record an average temperature each hour and a 3-hour block average concentration every third cycle. [40 CFR 63.564(e)(3)]</p>	None.
40	<p>The owner or operator shall limit marine tank loading operations to vessels equipped with vapor collection equipment compatible with the terminal's vapor collection system. [40 CFR 63.562(c)(2)(ii)]</p>	None.	None.	None.

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41	The owner or operator shall operate and maintain a source, including associated APC equipment, in a manner consistent with safety and good APC practices for minimizing emissions. [40 CFR 63.562(e)]	Monitored by other method (provide description) once initially. Compliance shall be determined based on the evaluation of the source's operation and maintenance plan. [40 CFR 63.562(e)(1)]	None.	None.
42	The owner or operator shall develop and implement a written operation and maintenance plan. The plan shall include all information specified at 40 CFR 63.562(e)(2)(i) - (iv). [40 CFR 63.562(e)(2)]	Monitored by other method (provide description) upon occurrence of event. If the operation and maintenance plan fails to address, or inadequately addresses a variance event, the owner or operator shall revise the plan to address deficiencies within 45 working days after the event. [40 CFR 63.562(e)(4)]	Recordkeeping by manual logging of parameter once initially. The owner or operator shall keep the written operation and maintenance plan available for inspection for the life of the source. If the plan is revised, previous revisions shall be maintained for 5 years from the date of revision. [40 CFR 63.562(e)(5)]	None.
43	Operation and maintenance inspections. If the 3-hour or 3-cycle block average operating parameters in 40 CFR 63.563(b)(4) through (9), outside the acceptable operating ranges, are measured and recorded, i.e., variances of the pollution control device or monitoring equipment, the owner or operator of the affected source shall perform an unscheduled inspection of the control device and monitoring equipment and review of the parameter monitoring data. [40 CFR 63.563(b)(3)]	Other: The owner or operator of the affected source shall perform an inspection and review when total parameter variance time for the control device is greater than 10 percent of the operating time for marine tank vessel loading operations on a 30-day, rolling-average basis. The inspection and review shall be conducted within 24 hours after passing the allowable variance time of 10 percent. The inspection checklist from the requirements of 40 CFR 63.562(e)(2)(iii) and the monitoring data from requirements in 40 CFR 63.562(e)(2)(ii) and 40 CFR 63.564 should be used to identify any maintenance problems that may be associated with the variance. The unscheduled inspection should encompass all components of the control device and monitoring equipment that can be inspected while in operation. [40 CFR 63.563(b)(3)].	None.	Repair equipment: Upon occurrence of event. If any maintenance problem is identified during the inspection, the owner or operator of the affected source must take corrective action (e.g., adjustments to operating controls) as soon as practicable. If no immediate maintenance problems are identified from the inspection performed while the equipment is operating, a complete inspection in accordance with 40 CFR 63.562(e)(2) must be conducted prior to the next marine tank vessel loading operation and corrective action (e.g., replacement of defective parts) must be taken as soon as practicable for any maintenance problem identified during the complete inspection. [40 CFR 63.563(b)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	The owner or operator shall not perform marine vessel transfer operations with open by-pass lines. Each valve in the terminal's vapor collection system that would route displaced vapors to the atmosphere shall be secured closed either by using a car-seal or lock-and-key configuration or the by-pass line from the valve shall be equipped with a flow indicator. [40 CFR 63.563(a)(1)(i)]	None.	None.	Repair equipment: Upon occurrence of event. The owner or operator shall repair valves, car-seals, or closure mechanisms no later than 15 days after a change in the position of the valve or a break in the car-seal or closure mechanism is detected, or no later than prior to the next marine tank vessel loading operation, whichever is later. [40 CFR 63.563(a)(1)(ii)]
45	The owner or operator shall conduct an initial performance test using the procedures listed in 40 CFR 63.7 according to the applicability in Table 1 of 40 CFR 63.560. [40 CFR 63.563(b)(1)]	Monitored by stack emission testing once initially, based on the average of three tests. Testing shall be conducted using the procedures at 40 CFR 63.565(d). All testing shall be conducted during the last 20% of loading of a tank or compartment. [40 CFR 63.563(b)(4)(ii)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The owner or operator shall maintain records of initial compliance testing as specified at 40 CFR 63.10 of Subpart A according to the applicability in Table 1 of 40 CFR 63.560.. [40 CFR 63.567(a)]	Submit a report: As per the approved schedule. The owner or operator shall submit the results of initial compliance testing in accordance with the procedures and schedule specified at 40 CFR 63.9 of Subpart A according to the applicability in Table 1 of 40 CFR 63.560.. [40 CFR 63.567(a)]
46	During the initial performance test required in paragraph (b)(1) of this section, the owner or operator of an affected source shall demonstrate compliance with operating pressure requirements of 33 CFR 154.814 using the procedures in 40 CFR 63.565(b). [40 CFR 63.563(a)(3)]	None.	None.	None.
47	The owner or operator shall inspect all duct work and piping and connections to vapor collection systems and control devices. [40 CFR 63.563(c)(1)]	Monitored by visual determination annually, based on an instantaneous determination. The owner or operator shall conduct the inspection using Method 21. If a leak is detected by visual, audible, olfactory, or other detection method, the inspection shall continue as necessary to positively identify the potential leak(s). [40 CFR 63.563(c)(2)]	Recordkeeping by manual logging of parameter upon occurrence of event. Each detection of a leak shall be recorded, and the leak shall be tagged until repaired. The owner or operator shall document all information specified at 40 CFR 63.567(i) for each marine tank vessel loaded at the source. The documentation shall be updated at least once per year. [40 CFR 63.563(c)(2)]	Repair equipment: Upon occurrence of event. Upon detection of a leak, the owner or operator shall make a first effort to repair the vapor collection system and control device within 15 days or prior to the next marine tank vessel loading operation, whichever is later. [40 CFR 63.563(c)(3)]
48	The owner or operator shall maintain records of each detected leak in the vapor collection system, or control device. [40 CFR 63.567(k)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. Records of all information specified at 40 CFR 63.567(k) shall be kept and maintained for 5 years. [40 CFR 63.567(k)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
49	Conduct a comprehensive stack test for each of Stack 173B (PT1002) and Stack 173 PT1001) using an approved protocol at least 12 months prior to the expiration of the approved renewal operating permit which expires on 2/3/20 and each permit after to demonstrate compliance with the O <sub>2</sub> , NO <sub>x</sub> , VOC and CO emission limits, and the 3.0 mg/L effluent VOC concentration for the primary control device for operating scenarios OS Summary and OS1-OS4, OS5-OS8. Testing must be conducted at worst-case permitted operating conditions for each stack at the corresponding design capacity of the control device associated with each stack with regard to meeting the applicable emission standards, but without creating an unsafe condition. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for carbon monoxide, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: Monitoring as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenarios.[N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the 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. 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)]

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**Emission Unit:** U10 Wharf MACT Subpart Y**Operating Scenario:** OS1 Berth No. 1 - Load applicable VOCs, OS2 Berth No. 3 - Load applicable VOCs, OS3 Berth No. 2 - Load applicable VOCs, OS4 Berth No. 4 - Load applicable VOCs

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.3 lb/hr from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.3 lb/hr from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 16.82 lb/hr from BOP140002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	Benzene <= 0.43 lb/hr from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 56.1 lb/hr from BOP120002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 22.4 lb/hr from BOP120002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 15.2 lb/hr from BOP140002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	H2S <= 0.1 lb/hr Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U10 Wharf MACT Subpart Y**Operating Scenario:** OS5 Berth No. 1 - Load applicable VOCs, OS6 Berth No. 3 - Load applicable VOCs, OS7 Berth No. 2 - Load applicable VOCs, OS8 Berth No. 4 - Load applicable VOCs

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.3 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 1.3 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 12.62 lb/hr Maximum emission rate BOP140002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	Benzene <= 0.85 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 19.4 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	NOx (Total) <= 16.8 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See U10 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 U10 OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	SO2 <= 11.4 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	H2S <= 0.1 lb/hr Maximum emission rate BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**Emission Unit:** U10 Wharf MACT Subpart Y**Operating Scenario:** OS9 Berth No.1- Load non-applicable VOCs, OS10 Berth No.3- Load non-applicable VOCs, OS11 Berth No.2 - Load non-applicable VOCs, OS12 Berth No 4- Load non-applicable VOCs

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 8.73 lb/hr from loading of distillates. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.



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Emission Unit: U10 Wharf MACT Subpart Y

Operating Scenario: OS13 Berth No. 1 - Load applicable VOCs, OS14 Berth No. 3 - Load applicable VOCs, OS15 Berth No. 2 - Load applicable VOCs, OS16 Berth No. 4 - Load applicable VOCs

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.37 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 1.37 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 45.8 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 98.2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 39.3 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 26.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	H2S <= 0.14 lb/hr Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**Emission Unit:** U11 Group I Storage Tanks subject to MACT Subpart A & Subpart R

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Refer to Subject Item Group 1 for the N.J.A.C.7:27-16.2 requirements for internal floating roof tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC (Total): Applicable VOC storage tanks 750 (E1101), 751 (E1102), 752 (E1103), 753 (E1104), and 754 (E1105) shall be equipped with a floating roof as specified in Table 2A, Range III. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
3	Stationary storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
4	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank equipped with an external floating roof unless all openings in such roof, excluding emergency roof drains, are covered when not in active use. The tank shall be exempt from this paragraph if the tank meets the exemption criteria at 16.2 (f)7 above. [N.J.A.C. 7:27-16.2(l)11]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) < 5 tons/yr. Applicable to annual in-service roof landing VOC emissions for each tank. Each tank is exempt from the requirements of N.J.A.C.7:27-16.2(p). These emissions are included in the VOC(total) limit for U11. From BOP090002. N.J.A.C.7:27-16.2(f)6 and . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar year. The owner or operator shall calculate the emissions resulting from in-service floating roof landings (as defined at N.J.A.C.7:27-16.1) each month during operating using the methodology described at AP-42, Chapter 7 (November 2006 or later version). The emissions for each calendar month shall be added to the emissions for the previous calendar months. The procedure will begin in January 2010. The emissions from months prior to January 2010 will not be used to determine compliance with this requirement. [N.J.A.C.7:27-16.2(f)6] and. [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 maintain on-site, for each tank, for five years 1. Records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; 2. Records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1; 3. The records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. 4. The in-service roof landing emissions for the month and the the in-service roof landing emissions for the calendar year. [N.J.A.C.7:27-16.2(s)] and. [N.J.A.C. 7:27-22.16(o)]	None.
6	For Range II or III Storage tanks equipped with gauging and/or sampling systems shall be vapor tight. Exempt from this requirement when gauging or sampling is taking place, and when the condition at [N.J.A.C. 7:27-16.2(o)1] is met during refilling. [N.J.A.C. 7:27-16.2(d)] & [N.J.A.C. 7:27-16.2(f)9]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into these storage tanks unless the tank is equipped with one of the following control apparatus: 1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; 2. A floating roof; or 3. A vapor balance system with: i. All atmospheric vents positively closed during transfer; ii. A conservation vent adjusted to remain closed during transfer; or iii. A hole of 1/4 inch or less in diameter in the cap on the atmospheric vent. [N.J.A.C. 7:27-16.4(c)]	None.	None.	None.
8	The permittee shall ensure the roof float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. [N.J.A.C. 7:27-16.2(m)]	None.	None.	None.
9	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standards conditons. [N.J.A.C. 7:27-16.2(s)1]	None.	Other: Recordkeeping by manual or electronic logging of parameter per change of material. Log the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank. [N.J.A.C. 7:27-16.2(s)1] & [N.J.A.C. 7:27-22.16(o)].	None.

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10	When performing a roof landing of an external floating roof tank the permittee shall: 1. When the roof is resting on the leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and 2. Any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C. 7:27-16.2(n)]	None.	Other: The owner or operator shall maintain on-site for each tank, for five years, the records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1, the records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. [N.J.A.C. 7:27-16.2(s)2 & 3] & [N.J.A.C. 7:27-16.22(a)].	None.
11	VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into these storage tanks unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] & [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>VOC (Total): No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into these storage tanks unless:</p> <p>1. The tank is equipped and operating with one of the following emission controls:</p> <p style="padding-left: 20px;">i. A vapor control system that:</p> <p style="padding-left: 40px;">(1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and</p> <p style="padding-left: 40px;">(2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during gasoline transfer; or</p> <p style="padding-left: 20px;">ii. A floating roof; and</p> <p>2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]</p>	None.	None.	None.
13	<p>Hexane (n-) &lt;= 4.4 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into a delivery vessel, except railroad tank cars, from these storage tanks unless the tank is equipped with a floating roof or unless such delivery vessel is connected to one of the following control apparatus:</p> <ol style="list-style-type: none"> <li>1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; or</li> <li>2. A vapor balance system with all atmospheric vents positively closed during transfer. Such vapor balance shall not return the vapors to any tank equipped with a floating roof. This requirement shall not apply to this storage tank during construction ballast if an applicable VOC is used, and/or the loading of an applicable VOC as cargo into a marine tank vessel. [N.J.A.C. 7:27-16.4(f)]</li> </ol>	None.	None.	None.
15	<p>VOC (Total): The following records shall be maintained:</p> <ol style="list-style-type: none"> <li>1. On a daily basis, record the name and total quantity of each applicable VOC, in gallons, loaded into delivery vessels (except marine tank vessels) at the facility;</li> <li>2. Upon request of the Department and at a frequency specified by the Department, record any other operating parameter relevant to the prevention or control of the emission of air contaminants from the facility. [N.J.A.C. 7:27-16.3(t)] &amp; [N.J.A.C. 7:27-16.4(o)]</li> </ol>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	VOC (Total): The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA.[N.J.A.C. 7:27-16.22(a)].	None.
17	VOC (Total) <= 246.2 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually. Emissions from roof landings shall be determined by the methods specified in EPA AP-42. Each roof landing shall be performed in accordance with facility standard operating procedures from BOP070001. [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 Each roof landing shall be recorded in accordance with facility standard operating procedures. The recorded data shall include tank ID, product type, RVP, liquid temperature and dates and times of occurrence and the resultant VOC emissions. Individual tank records shall be recorded in a logbook or electronic data storage systems, from BOP070001. [N.J.A.C. 7:27-22.16(o)]	None.
18	HAPs (Total) <= 5.1 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
19	Benzene <= 0.7 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
20	Permittee's annual throughput limit (combined total for all tanks in this process) <= 254,700,000 gallons per year. [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by tank gauging per occurrence.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual pumping records or electronic data storage upon occurrence of event. Annual throughput to be calculated on total quantity of materials transferred out of each tank.[N.J.A.C. 7:27-22.16(o)].	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Contents of the 5 storage tanks listed in this process are limited to any petroleum hydrocarbon liquid, stormwater, or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 13.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by lab analysis or assay reports once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Other: Daily recordkeeping by manual or electronic logging of the tank contents in each tank on manual pumping records, or electronically (computer, DAS, electronic data storage). Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis or assay reports.[N.J.A.C. 7:27-22.16(o)].	None.
22	The permittee is limited to opening the tanks for maintenance/cleaning for a total of 5 times per year. [N.J.A.C. 7:27-22.16(o)]	None.	Other: Manual logging or electronic data storage of the following: date and time tank maintenance/cleaning began, duration of tank maintenance/cleaning period and brief description of tank maintenance/cleaning performed.[N.J.A.C. 7:27-22.16(o)].	None.
23	When performing maintenance(tank opening, cleaning) and Roof Landings on Tanks 750,751,753, and 754 emissions may be vented to CD1798 or CD1799, the portable oxidizers. [N.J.A.C. 7:27-22.16(a)]			
24	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 63 Subpart A as modified by 40 CFR63 MACT Subpart R. See Group 4 (GR4) for Subpart A requirements and 40 CFR63 MACT Subpart R.. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 Subpart A, as modified by 40 CFR 63 MACT Subpart R.[40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 Subpart A, as modified by MACT Subpart R.[40 CFR 63].	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 63 Subpart A, as modified by MACT Subpart R. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 63]
25	The owner or operator shall comply with the following standards as required in 40 CFR 63 MACT Subpart R. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 MACT Subpart R.[40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 MACT Subpart R.[40 CFR 63].	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 63 MACT Subpart R. [40 CFR 63]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator shall equip each gasoline storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(1) through (4), except the requirements at 60.112b(a)(1)(iv) through (ix) and 60.112b(a)(2)(ii).[40 CFR 63.423(a)]	Monitored by other method (provide description) at the approved frequency, based on an other averaging period (describe) The owner or operator shall comply with the monitoring requirements specified at 40 CFR Part 60.116b. [40 CFR 63.427(c)]	Recordkeeping by manual logging of parameter continuously. Records shall be maintained for at least 5 years. [40 CFR 63.427(c)]	
27	The owner or operator shall equip any gasoline external floating roof storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(2)(ii), if such storage vessel does not meet the requirements of 40 CFR Part 63.423(a).[40 CFR 63.423(b)]		Recordkeeping by manual logging of parameter at the approved frequency. The owner or operator shall keep records as specified at 40 CFR Part 60.115b. Records shall be maintained for at least 5 years. [40 CFR 63.428(d)]	
28	The owner or operator shall inspect all equipment in gasoline service for leaks.[40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring upon occurrence of event, based on an instantaneous determination The owner or operator shall inspect during the loading of a gasoline cargo tank. Acceptable inspection methods include sight, sound, and smell. [40 CFR 63.424(a)]	Recordkeeping by manual logging of parameter upon occurrence of event. The owner shall maintain a log, signed by the owner or operator at the completion of each inspection, which contains all information specified at 40 CFR Part 428(e)(1) through (7), and each detection of a leak. [40 CFR 63.424(b)]	If a leak is detected during inspection, the owner or operator shall Repair equipment: Within 15 calendar days from detection. [40 CFR 63.424(c)]
29	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. The owner or operator shall take measures to reduce vapor releases as specified at 40 CFR Part 63.424(g)(1) through (4).[40 CFR 63.424(g)]			

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	The owner or operator shall submit semiannual reports to the Administrator.[40 CFR 63.428(g)]			Submit a report: Semi-annually on January 31 and July 31 of each year. The reports shall include (as applicable) each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; periodic reports under 40 CFR Part 63.428(d); and the number of equipment leaks not repaired within 5 days after detection. [40 CFR 63.428(g)]

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**Emission Unit:** U12 Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Refer to Subject Item Group 1 (GR1) for the N.J.A.C.7:27-16.2 requirements for Range III internal floating roof tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Applicable VOC storage tanks 18 (E1201), 19 (E1202), 27 (E1203), 766 (E1204), 767 (E1205), 768 (E1206), 769 (E1207), 770 (E1208), 771 (E1209), 772 (E1210), 774 (E1211), 777 (E1212) and 778 (E1213) shall be equipped with a floating roof as specified in Table 2A, Range III. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
3	Stationary storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
4	For Range II or III ,Storage tanks equipped with gauging and/or sampling systems shall be vapor tight. Exempt from this requirement when gauging or sampling is taking place, and when the condition at [N.J.A.C. 7:27-16.2(o)1 and 16.2(n)(1)] is met during refilling. [N.J.A.C. 7:27-16.2(d) & [N.J.A.C. 7:27-16.2(f)9]	None.	None.	None.
5	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standards conditons. [N.J.A.C. 7:27-16.2(s)1]	None.	Other: Recordkeeping by manual or electronic logging of parameter per change of material. Log the tank contents, vapor pressure , and date the tank contents (material) was replaced or material was added to the tank. [N.J.A.C. 7:27-16.2(s)1] &[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall ensure the roof float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. [N.J.A.C. 7:27-16.2(m)]	None.	None.	None.
7	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank equipped with an external floating roof unless all openings in such roof, excluding emergency roof drains, are covered when not in active use. The tank shall be exempt from this paragraph if the tank meets the exemption criteria at N.J.A.C.7:27-16.2 (f)7 above. [N.J.A.C. 7:27-16.2(l)11]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	VOC (Total) < 5 tons/yr. Applicable to annual in-service roof landing VOC emissions for each tank. Each tank is exempt from the requirements of N.J.A.C.7:27-16.2(p). These emissions are included in the VOC(total) limit for U12. From BOP090002. N.J.A.C.7:27-16.2(f)6 and . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar year. The owner or operator shall calculate the emissions resulting from in-service floating roof landings (as defined at N.J.A.C.7:27-16.1) each month during operating using the methodology described at AP-42, Chapter 7 (November 2006 or later version). The emissions for each calendar month shall be added to the emissions for the previous calendar months. The procedure will begin in January 2010. The emissions from months prior to January 2010 will not be used to determine compliance with this requirement. [N.J.A.C.7:27-16.2(f)6] and. [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 maintain on-site, for each tank, for five years 1. Records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; 2. Records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1; 3. The records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. 4. The in-service roof landing emissions for the month and the the in-service roof landing emissions for the calendar year. [N.J.A.C.7:27-16.2(s)] and. [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	<p>VOC (Total): No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into these storage tanks unless:</p> <p>1. The tank is equipped and operating with one of the following emission controls:</p> <p style="padding-left: 20px;">i. A vapor control system that:</p> <p style="padding-left: 40px;">(1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and</p> <p style="padding-left: 40px;">(2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during gasoline transfer; or</p> <p style="padding-left: 20px;">ii. A floating roof; and</p> <p>2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]</p>	None.	None.	None.
10	<p>When performing a roof landing of an internal floating roof tank the permittee shall</p> <p>1. When the roof is resting on its leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and</p> <p>2. After the tank is refilled after being degassed for the first time after May 19, 2009, any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C. 7:27-16.2(o)]</p>	None.	<p>Other: The owner or operator shall maintain on-site for each tank, for five years, the records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1, the records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. [N.J.A.C. 7:27-16.2(s)2 &amp; 3] &amp; [N.J.A.C. 7:27-16.22(a)].</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total): The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA.[N.J.A.C. 7:27-16.22(a)].	None.
12	When performing maintenance(tank opening, cleaning) and Roof Landings on Tanks in this emission unit emissions may be vented to CD1798 or CD1799, the portable oxidizers. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into these storage tanks unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(a)] & [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
14	VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into into these storage tanks unless the tank is equipped with one of the following control apparatus: 1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; 2. A floating roof; or 3. A vapor balance system with: i. All atmospheric vents positively closed during transfer; ii. A conservation vent adjusted to remain closed during transfer; or iii. A hole of 1/4 inch or less in diameter in the cap on the atmospheric vent. [N.J.A.C. 7:27-16.4(c)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	VOC (Total): No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into a delivery vessel, except railroad tank cars, from these storage tanks unless the tank is equipped with a floating roof or unless such delivery vessel is connected to one of the following control apparatus: 1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; or 2. A vapor balance system with all atmospheric vents positively closed during transfer. Such vapor balance shall not return the vapors to any tank equipped with a floating roof. This requirement shall not apply to this storage tank during construction ballast if an applicable VOC is used, and/or the loading of an applicable VOC as cargo into a marine tank vessel. [N.J.A.C. 7:27-16.4(f)]	None.	None.	None.
16	The following requirements are NSPS Subpart Kb , for Storage Vessels for Volatile Organic Liquids (VOL) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	VOC (Total): The following records shall be maintained: 1. On a daily basis, record the name and total quantity of each applicable VOC, in gallons, loaded into delivery vessels (except marine tank vessels) at the facility; 2. Upon request of the Department and at a frequency specified by the Department, record any other operating parameter relevant to the prevention or control of the emission of air contaminants from the facility. [N.J.A.C. 7:27-16.3(t)] & [N.J.A.C. 7:27-16.4(o)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	VOC (Total) <= 203.3 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually Emissions from roof landings shall be determined by the methods specified in EPA AP-42. Each roof landing shall be performed in accordance with facility standard operating procedures from BOP070001. [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 Each roof landing shall be recorded in accordance with facility standard operating procedures. The recorded data shall include tank ID, product type, RVP, liquid temperature and dates and times of occurrence and the resultant VOC emissions. Individual tank records shall be recorded in a logbook or electronic data storage systems, from BOP070001. [N.J.A.C. 7:27-22.16(o)]	None.
19	Hexane (n-) <= 12.5 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
20	Total Throughput <= 2,556.4 MMgal/yr Permittee's annual throughput limit (combined total for all tanks in this process). [N.J.A.C. 7:27-22.16(a)]	Other: Total Throughput: Monitored by tank gauging per occurrence.[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 upon occurrence of event Annual throughput to be calculated on total quantity of materials transferred out of each tank. [N.J.A.C. 7:27-22.16(o)]	None.
21	Vapor Pressure <= 13 psia at standard conditions. Contents of the 13 storage tanks listed in this process are limited to any petroleum hydrocarbon liquid, stormwater, or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 13.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(e)]	Other: Vapor Pressure: Monitored by lab analysis or assay reports once for each type of liquid stored, added or changed out.[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 daily of the tank contents in each tank. Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis or assay reports. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The permittee is limited to opening the tanks for maintenance/cleaning for a total of 13 times in any one year. [N.J.A.C. 7:27-22.16(o)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event : date and time tank maintenance/cleaning began, duration of tank maintenance/cleaning period and brief description of tank maintenance/cleaning performed. [N.J.A.C. 7:27-22.16(o)]	None.
23	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A for storage tanks 18 (E1201), 19 (E1202), 766 (E1204), 767 (E1205), 768 (E1206), 771 (E1209) and 772 (E1210). See Group 3 (GR3). [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[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 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
24	The owner or operator shall comply, as applicable, with the standards as required in 40 CFR 60.112b through 60.116b (NSPS Subpart Kb) for storage tanks 18 (E1201), 19 (E1202), 766 (E1204), 767 (E1205), 768 (E1206), 771 (E1209) and 772 (E1210). [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60.113b (NSPS Subpart Kb).[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60.115b (NSPS Subpart Kb).[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 60.113b, 60.115b, and 60.116b (NSPS Subpart Kb). [40 CFR 60]
25	Group 1 or Group 2 storage vessel that is part of an existing source and is also subject to the provisions of 40 CFR part 60, subpart Kb, is required to comply only with the requirements of 40 CFR part 60, subpart Kb, except as provided in paragraph 40 CFR 63.420(g). [40 CFR 63.420(g)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa or with a design capacity greater than or equal to 75 m3 but less than 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 27.6 kPa but less than 76.6 kPa, shall equip each storage vessel with one of four options under 40 CFR 60.112b(a). For this emission unit the selected NSPS option is a fixed roof in combination with an internal floating roof meeting the following specifications: [40 CFR 60.112b(a)(1)]	None.	None.	None.
27	The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid at all times except during initial fill and during those intervals when the storage vessel is completely emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, and refilling shall be continuous and shall be accomplished as rapidly as possible.[40 CFR 60.112b(a)(1)(i)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	Storage vessel shall be equipped with a fixed roof in combination with an internal floating roof. The internal floating roof shall be equipped with either (1) a foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal); (2) two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor mounted but both must be continuous. or (3) A mechanical shoe seal: A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [40 CFR 60.112b(a)(1)(ii)]	Other: Visually inspect the internal floating roof, primary and secondary seals through manholes and roof hatches once every 12 months after initial fill .[40 CFR 60.113b(a)(2)].	Other: The owner or operator shall record each inspection and keep a copy of the records. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed conditions of each component of the control equipment (seals, internal floating roof, and fittings).[40 CFR 60.115b(a)(2)].	Submit notification: As per the approved schedule. The owner operator shall notify the Administrator in writing at least 30 days prior to the initial filling of the storage vessel. [40 CFR 60.113b(a)(5)]
29	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.[40 CFR 60.112b(a)(1)(iii)]	None.	None.	None.
30	Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use. [40 CFR 60.112b(a)(1)(iv)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.[40 CFR 60.112b(a)(1)(v)]	None.	None.	None.
32	Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturers recommended setting.[40 CFR 60.112b(a)(1)(vi)]	None.	None.	None.
33	Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90% of the opening. [40 CFR 60.112b(a)(1)(vii)]	None.	None.	None.
34	Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.[40 CFR 60.112b(a)(1)(viii)]	None.	None.	None.
35	Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)]	None.	None.	None.
36	After installing the control equipment, the owner or operator shall furnish the Administrator with a report which describes the control equipment and which certifies that the control equipment meets the specifications of [40 CFR 60.112b(a)(1)] and [40 CFR 60.113b(a)(1)]. [40 CFR 60.115b(a)(1)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The owner or operator shall keep a copy of the report for at least two years . [40 CFR 60.115b]	Submit a report: As per the approved schedule. The report shall be submitted as an attachment to the notification required by 40 CFR 60.7(a)(3). [40 CFR 60.115b(a)(1)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	If any of the conditions described at 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), the owner or operator shall furnish the Administrator with a report which identifies the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.[40 CFR 60.115b(a)(3)]	None.	Other: Keep a record of each inspection performed as required by 40 CFR 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). The Permittee shall keep a copy of the report .[40 CFR 60.115b(a)(2)].	Submit a report: Upon occurrence of event to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 60.113b(a)(3) and list each repair made. [40 CFR 60.115b(a)(4)]
38	The owner or operator shall keep records of the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b(b)]	None.	Other: Records shall be maintained readily accessible for the life of the source.[40 CFR 60.116b(b)].	None.
39	For each storage vessel wither with design capacity =151 m3 storing a liquid with a maximum true vapor pressure =3.5 kPa or with design capacity =75 m3 but <151 m3 storing a liquid with a maximum true vapor pressure= 15 kPa the owner or operator shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure or RVP of that VOL during the respective storage period. [40 CFR 60.116b(c)]	Other: Tank contents .[40 CFR 60.116b(c)].	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. [40 CFR 60.116b(c)]	None.
40	The owner or operator shall notify the Administrator within 30 days when the maximum true vapor pressure, as determined by 40 CFR 60.116b(e), of the liquid in the storage vessel exceeds the respective maximum true vapor pressure for each volume range described at 40 CFR 60.116b(d).[40 CFR 60.116b(d)]	None.	None.	Submit a report: Upon occurrence of event , Notify the Administrator within 30 days. [40 CFR 60.116b(d)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 63 Subpart A, as modified by 40 CFR 63 MACT Subpart R. See group 4 (GR4) for Subpart A requirements and 40 CFR 63 MACT Subpart R. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 Subpart A, as modified by 40 CFR 63 MACT Subpart R. [40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 Subpart A, as modified by MACT Subpart R. [40 CFR 63].	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 63 Subpart A, as modified by MACT Subpart R. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 63]
42	The owner or operator shall comply with the following standard as required in 40 CFR 63 MACT Subpart R. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 MACT Subpart R. [40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 MACT Subpart R. [40 CFR 63].	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 63 MACT Subpart R. [40 CFR 63]
43	The owner or operator shall equip each gasoline storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(1) through (4), except the requirements at 60.112b(a)(1)(iv) through (ix) and 60.112b(a)(2)(ii). [40 CFR 63.423(a)]	Monitored by other method (provide description) at the approved frequency, based on an other averaging period (describe) The owner or operator shall comply with the monitoring requirements specified at 40 CFR Part 60.116b. [40 CFR 63.427(c)]	Recordkeeping by manual logging of parameter continuously. Records shall be maintained for at least 5 years. [40 CFR 63.427(c)]	
44	The owner or operator shall equip any gasoline external floating roof storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(2)(ii), if such storage vessel does not meet the requirements of 40 CFR Part 63.423(a). [40 CFR 63.423(b)]		Recordkeeping by manual logging of parameter at the approved frequency. The owner or operator shall keep records as specified at 40 CFR Part 60.115b. Records shall be maintained for at least 5 years. [40 CFR 63.428(d)]	
45	The owner or operator shall inspect all equipment in gasoline service for leaks. [40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring upon occurrence of event, based on an instantaneous determination The owner or operator shall inspect during the loading of a gasoline cargo tank. Acceptable inspection methods include sight, sound, and smell. [40 CFR 63.424(a)]	Recordkeeping by manual logging of parameter upon occurrence of event. The owner shall maintain a log, signed by the owner or operator at the completion of each inspection, which contains all information specified at 40 CFR Part 428(e)(1) through (7), and each detection of a leak. [40 CFR 63.424(b)]	If a leak is detected during inspection, the owner or operator shall Repair equipment: Within 15 calendar days from detection. [40 CFR 63.424(c)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. The owner or operator shall take measures to reduce vapor releases as specified at 40 CFR Part 63.424(g)(1) through (4).[40 CFR 63.424(g)]			
47	The owner or operator shall submit semiannual reports to the Administrator.[40 CFR 63.428(g)]			Submit a report: Semi-annually on January 31 and July 31 of each year. The reports shall include (as applicable) each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; periodic reports under 40 CFR Part 63.428(d); and the number of equipment leaks not repaired within 5 days after detection. [40 CFR 63.428(g)]

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**Emission Unit:** U13 Group II B - I Storage Tanks <= 13.0 psia MACT Subpart A & Subpart R

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Refer to Subject Item Group 1(GR1) for additional N.J.A.C.7:27-16.2 requirements for Range III internal floating roof tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	VOC storage tanks 307 (E1315), 003 (E1346), 004 (E1347), 331 (E1348), 332 (E1349) and V-8912 (E1352) do not require a control apparatus as specified in Table 2A. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
3	VOC storage tanks 305 (E1313), 306 (E1314), and 327 (E1333) shall be equipped with a floating roof as specified in Table 2A, Range III. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
4	Stationary storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
5	For Range II or III, storage tanks equipped with gauging and/or sampling systems shall be vapor tight. Exempt from this requirement when gauging or sampling is taking place, and when the condition at [N.J.A.C. 7:27-16.2(o)1 and 16.2(n)(1)] is met during refilling. [N.J.A.C. 7:27-16.2(d)] & [N.J.A.C. 7:27-16.2(f)9]	None.	None.	None.
6	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standards conditons. [N.J.A.C. 7:27-16.2(s)1]	None.	Other: Recordkeeping by manual or electronic logging of parameter per change of material. Log the tank contents, vapor pressure , and date the tank contents (material) was replaced or material was added to the tank. [N.J.A.C. 7:27-16.2(s)1] & [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	The permittee shall ensure the roof float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. [N.J.A.C. 7:27-16.2(m)]	None.	None.	None.
8	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank equipped with an external floating roof unless all openings in such roof, excluding emergency roof drains, are covered when not in active use. The tank shall be exempt from this paragraph if the tank meets the exemption criteria at N.J.A.C.7:27-16.2 (f)7 above. [N.J.A.C. 7:27-16.2(l)11]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	VOC (Total) < 5 tons/yr. Applicable to annual in-service roof landing VOC emissions for each tank. Each tank is exempt from the requirements of N.J.A.C.7:27-16.2(p). These emissions are included in the VOC(total) limit for U12. From BOP090002. N.J.A.C.7:27-16.2(f)6 and . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar year. The owner or operator shall calculate the emissions resulting from in-service floating roof landings (as defined at N.J.A.C.7:27-16.1) each month during operating using the methodology described at AP-42, Chapter 7 (November 2006 or later version). The emissions for each calendar month shall be added to the emissions for the previous calendar months. The procedure will begin in January 2010. The emissions from months prior to January 2010 will not be used to determine compliance with this requirement. [N.J.A.C.7:27-16.2(f)6] and. [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 maintain on-site, for each tank, for five years 1. Records that specify each VOC stored and the vapor pressure of each VOC at standard conditions; 2. Records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1; 3. The records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. 4. The in-service roof landing emissions for the month and the the in-service roof landing emissions for the calendar year. [N.J.A.C.7:27-16.2(s)] and. [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
10	When performing a roof landing of an external floating roof tank the permittee shall: 1. When the roof is resting on the leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and 2. Any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C. 7:27-16.2(n)]	None.	Other: The owner or operator shall maintain on-site for each tank, for five years, the records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1, the records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. [N.J.A.C. 7:27-16.2(s)2 & 3] & [N.J.A.C. 7:27-16.22(a)].	None.
11	When performing a roof landing of an internal floating roof tank the permittee shall 1. When the roof is resting on its leg supports or suspended by cables or hangers, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible; and 2. After the tank is refilled after being degassed for the first time after May 19, 2009, any in-service roof landing shall be with the landed height of the floating roof at its minimum setting. [N.J.A.C. 7:27-16.2(o)]	None.	Other: The owner or operator shall maintain on-site for each tank, for five years, the records of the roof landing emission information required at N.J.A.C. 7:27-21.5(j)1, the records of each floating roof landing event including, but not limited to, tank contents before landing and after refilling; landed height of the floating roof; height of any liquid remaining in the bottom of the tank after landing; duration of landing; landing emissions calculated using AP-42, Chapter 7 methodology, and any other records needed to create the "Floating Roof Landing Emission Summary Report" required at N.J.A.C. 7:27-21.5(j)2. [N.J.A.C. 7:27-16.2(s)2 & 3] & [N.J.A.C. 7:27-16.22(a)].	None.
12	When performing maintenance(tank opening, cleaning) and Roof Landings on Tanks in this emission unit emissions may be vented to CD1798 or CD1799, the portable oxidizers from BOP140002. [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
13	<p>No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into these storage tanks unless:</p> <p>1. The tank is equipped and operating with one of the following emission controls:</p> <p style="padding-left: 20px;">i. A vapor control system that:</p> <p style="padding-left: 40px;">(1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and</p> <p style="padding-left: 40px;">(2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during gasoline transfer; or</p> <p style="padding-left: 20px;">ii. A floating roof; and</p> <p>2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]</p>	None.	None.	None.
14	<p>No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into these storage tanks unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] &amp; [N.J.A.C. 7:27-16.4(b)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	<p>No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into these storage tanks unless the tank is equipped with one of the following control apparatus:</p> <ol style="list-style-type: none"> <li>1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC;</li> <li>2. A floating roof; or</li> <li>3. A vapor balance system with: <ol style="list-style-type: none"> <li>i. All atmospheric vents positively closed during transfer;</li> <li>ii. A conservation vent adjusted to remain closed during transfer; or</li> <li>iii. A hole of 1/4 inch or less in diameter in the cap on the atmospheric vent.</li> </ol> </li> </ol> <p>[N.J.A.C. 7:27-16.4(c)]</p>	None.	None.	None.
16	<p>No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into a delivery vessel, except railroad tank cars, from these storage tanks unless the tank is equipped with a floating roof or unless such delivery vessel is connected to one of the following control apparatus:</p> <ol style="list-style-type: none"> <li>1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; or</li> <li>2. A vapor balance system with all atmospheric vents positively closed during transfer. Such vapor balance shall not return the vapors to any tank equipped with a floating roof. This requirement shall not apply to this storage tank during construction ballast if an applicable VOC is used, and/or the loading of an applicable VOC as cargo into a marine tank vessel.</li> </ol> <p>[N.J.A.C. 7:27-16.4(f)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The following records shall be maintained: 1. On a daily basis, record the name and total quantity of each applicable VOC, in gallons, loaded into delivery vessels (except marine tank vessels) at the facility; 2. Upon request of the Department and at a frequency specified by the Department, record any other operating parameter relevant to the prevention or control of the emission of air contaminants from the facility. [N.J.A.C. 7:27-16.3(t)] & [N.J.A.C. 7:27-16.4(o)]	None.	None.	None.
18	The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA.[N.J.A.C. 7:27-16.22(a)].	None.
19	VOC (Total) <= 173.3 tons/yr. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually Emissions from roof landings shall be determined by the methods specified in EPA AP-42. Each roof landing shall be performed in accordance with facility standard operating procedures from BOP070001. [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 Each roof landing shall be recorded in accordance with facility standard operating procedures. The recorded data shall include tank ID, product type, RVP, liquid temperature and dates and times of occurrence and the resultant VOC emissions. Individual tank records shall be recorded in a logbook or electronic data storage systems, from BOP070001. [N.J.A.C. 7:27-22.16(o)]	None.
20	HAPs (Total): Maximum allowable emission rate from the preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
21	Total Throughput <= 1,735.4 MMgal/yr Permittee's annual throughput limit (combined total for all tanks in this process). [N.J.A.C. 7:27-22.16(o)]	Other: Total Throughput: Monitored by tank gauging per occurrence.[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 upon occurrence of event Annual throughput to be calculated on total quantity of materials transferred out of each tank. [N.J.A.C. 7:27-22.16(o)]	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Vapor Pressure $\leq$ 13 psia at standard conditions. Contents of the storage tanks listed in this process are limited to any petroleum hydrocarbon liquid, stormwater, or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than or equal to 13.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(e)]	Other: Vapor Pressure: Monitored by lab analysis or assay reports once for each type of liquid stored, added, or changed out. [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 daily of the tank contents in each tank on manual pumping records, or electronically (computer, DAS, electronic data storage). Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure $\leq$ 0.02 psia. Vapor pressure records can include lab analysis or assay reports. [N.J.A.C. 7:27-22.16(o)]	None.
23	The permittee is limited to opening the tanks for maintenance/cleaning for a total of 24 times in any one year. [N.J.A.C. 7:27-22.16(o)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event the following: date and time tank maintenance/cleaning began, duration of tank maintenance/cleaning period and brief description of tank maintenance/cleaning performed. [N.J.A.C. 7:27-22.16(o)]	None.
24	The owner or operator shall equip each gasoline storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(1) through (4), except the requirements at 60.112b(a)(1)(iv) through (ix) and 60.112b(a)(2)(ii). [40 CFR 63.423(a)]	Monitored by other method (provide description) at the approved frequency, based on an other averaging period (describe) The owner or operator shall comply with the monitoring requirements specified at 40 CFR Part 60.116b. [40 CFR 63.427(c)]	Recordkeeping by manual logging of parameter continuously. Records shall be maintained for at least 5 years. [40 CFR 63.427(c)]	
25	The owner or operator shall equip any gasoline external floating roof storage vessel with a design capacity greater than or equal to 75 cubic meters according to the requirements specified at 40 CFR Part 60.112b(a)(2)(ii), if such storage vessel does not meet the requirements of 40 CFR Part 63.423(a). [40 CFR 63.423(b)]		Recordkeeping by manual logging of parameter at the approved frequency. The owner or operator shall keep records as specified at 40 CFR Part 60.115b. Records shall be maintained for at least 5 years. [40 CFR 63.428(d)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator shall inspect all equipment in gasoline service for leaks.[40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring upon occurrence of event, based on an instantaneous determination The owner or operator shall inspect during the loading of a gasoline cargo tank. Acceptable inspection methods include sight, sound, and smell. [40 CFR 63.424(a)]	Recordkeeping by manual logging of parameter upon occurrence of event. The owner shall maintain a log, signed by the owner or operator at the completion of each inspection, which contains all information specified at 40 CFR Part 428(e)(1) through (7), and each detection of a leak. [40 CFR 63.424(b)]	If a leak is detected during inspection, the owner or operator shall Repair equipment: Within 15 calendar days from detection. [40 CFR 63.424(c)]
27	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. The owner or operator shall take measures to reduce vapor releases as specified at 40 CFR Part 63.424(g)(1) through (4).[40 CFR 63.424(g)]			
28	The owner or operator shall submit semiannual reports to the Administrator.[40 CFR 63.428(g)]			Submit a report: Semi-annually on January 31 and July 31 of each year. The reports shall include (as applicable) each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; periodic reports under 40 CFR Part 63.428(d); and the number of equipment leaks not repaired within 5 days after detection. [40 CFR 63.428(g)]

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

Emission Unit: U14 Group II B - A Storage Tanks &lt;= 0.04 psia

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Stationary storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	Applicable VOC storage tanks 700 (E1406), 701 (E1407), 702 (E1408), 703 (E1409), 721 (E1411), 722 (E1412), 731 (E1413), 748 (E1414), 757 (E1416), and 780 (E1422) do not require a control apparatus as specified in Table 2A, Range I. [N.J.A.C. 7:27-16.2(b)]	None.	None.	None.
3	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standards conditons. [N.J.A.C. 7:27-16.2(s)1]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Manually log the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank in a logbook or electronically (computer, DAS or electronic operating system). [N.J.A.C. 7:27-16.2(s)] &. [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	<p>No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into these storage tanks unless:</p> <p>1. The tank is equipped and operating with one of the following emission controls:</p> <p style="padding-left: 40px;">i. A vapor control system that:</p> <p style="padding-left: 80px;">(1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and</p> <p style="padding-left: 80px;">(2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during gasoline transfer; or</p> <p style="padding-left: 40px;">ii. A floating roof; and</p> <p>2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]</p>	None.	None.	None.
5	<p>No person shall cause, suffer, allow or permit the transfer of gasoline or any applicable VOC into any receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] and. [N.J.A.C. 7:27-16.4(b)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into these storage tanks unless the tank is equipped with one of the following control apparatus: 1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; 2. A floating roof; or 3. A vapor balance system with: i. All atmospheric vents positively closed during transfer; ii. A conservation vent adjusted to remain closed during transfer; or iii. A hole of 1/4 inch or less in diameter in the cap on the atmospheric vent. [N.J.A.C. 7:27-16.4(c)]	None.	None.	None.
7	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)]	None.	Other: Maintain readily accessible records.[N.J.A.C. 7:27-16.22(a)].	None.
8	VOC (Total) <= 73.2 tons/yr from BOP120003. Maximum total annual emission limit from BOP120003 for all tanks, includes emissions from tank storage, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Total Throughput <= 22,618.8 MMgal/yr Permittee's annual throughput limit (combined total for all tanks in this process). [N.J.A.C. 7:27-22.16(a)]	Other: Total Throughput: Monitored by tank gauging per occurrence.[N.J.A.C. 7:27-22.16(o)].	Other: Total Throughput: Recordkeeping by manual pumping records or electronic data storage upon occurrence of event. Annual throughput to be calculated on total quantity of materials transferred out of each tank.[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	Vapor Pressure $\leq$ 0.04 psia at standard conditions. Contents of the storage tanks listed in this process are limited to any petroleum hydrocarbon liquid, stormwater, or process water that is not a HAP as defined at 40 CFR 63.1(a)(2). [N.J.A.C. 7:27-22.16(e)]	Other: Vapor Pressure: Monitored by lab analysis or assay report once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Vapor Pressure: Recordkeeping by rdkeeping by manual or electronic logging of the tank contents in each tank on manual pumping records, or electronically (computer, DAS, electronic data storage). Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure $\leq$ 0.02 psia. Vapor pressure records can include lab analysis or assay reports.[N.J.A.C. 7:27-22.16(o)].	None.
11	The permittee is limited to opening the tanks for maintenance/cleaning for a total of 21 times in any one year. [N.J.A.C. 7:27-22.16(o)]	None.	Other: Manual logging or electronic data storage of the following: date and time tank maintenance/cleaning began, duration of tank maintenance/cleaning period and brief description of tank maintenance/cleaning performed.[N.J.A.C. 7:27-22.16(o)].	None.

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**Emission Unit:** U17 Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 51.97 tons/yr. Total emission limit for all tanks in U17 including storage, transfer, roof landing loss, degassing, and cleaning from BOP170001. [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) Actual emissions from tank storage, transfer, roof leg landing, degassing, and cleaning activities will be determined using the current version of EPA AP-42 emission factors, as applicable. The results for each month shall be added to the results for the previous 11 months. [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 of the emission data storage, transfer, roof landing loss, degassing, and cleaning emissions. The input and output data of the Tanks program shall be maintained. [N.J.A.C. 7:27-22.16(o)]	None.
2	Each storage tank's capacity in gallons is: 319, 321, 322 - 10,500,000 gallons 28 - 3,729,077 gallons 116 - 8,300,000 gallons 11 - 5,000,000 gallons 12,13,14,15,16 - 3,900,000 gallons 22,23 - 3,750,000 gallons 760 - 1,800,000 gallons 773 - 6,500,000 gallons 199 - 454,568 gallons 781 845,968 gallons  [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
3	Vapor Pressure <= 11 psia. Tank contents of all internal floating roof tanks in U17 to be limited to gasoline, oxygenates such as MTBE or fuel grade ethanol, or non-HAP VOC materials. [N.J.A.C. 7:27-22.16(a)]	Vapor Pressure: Monitored by formulation data per change of material. Tank contents and vapor pressure for each 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 per change of material in readily available computer files of material and vapor pressure of liquid. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Material Transferred <= 4,207.1 MMgal/yr any consecutive 12 month period for all tanks in U17. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	See Subject Item Group (GR1) for the N.J.A.C.7:27-16.2 requirements applicable to internal floating roof storage tanks. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	During any roof landing and degassing operations of each internal floating tank in U17, all emissions shall be directed to CD1798 or CD1799, for 99% control of VOC emissions. Every effort shall be made to minimize the occurrence and duration of roof landing events. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	VOC Control Efficiency >= 99 % for control device CD1798 and CD1799. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	The portable VCU and the portable engine, CD1798 and CD1799, shall be operated and maintained in accordance with the requirements in U17, OS Summary. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) < 500 ppmv measured as methane in the exhaust stream of CD1798 or CD1799. [N.J.A.C. 7:27-22.16(a)]	Other: using an Organic vapor monitor/analyzer prior to permit renewal on each control CD1798 and CD1799[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 upon occurrence of event. [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	<p>No person shall cause, suffer, allow, or permit the transfer of gasoline into a receiving vessel having a maximum capacity of 2,000 gallons (7,570 liters) or greater, unless the following requirements are met:</p> <p>1.The transfer is made:</p> <p>i.Through a submerged fill pipe. If the receiving vessel is a stationary storage tank (either above ground or underground), the submerged fill pipe shall be permanently affixed to the tank; or</p> <p>ii. By some other means approved by the Department as being equally or more effective in reducing total applicable VOC emissions into the outdoor atmosphere during transfer; or</p> <p>2. The manufacturing process vessel was installed before December 17, 1979. [N.J.A.C. 7:27-16.3(c)]</p>	None.	None.	None.
11	<p>No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into a stationary storage tank having a maximum capacity of 2,000 gallons (7,570 liters) or greater unless:</p> <p>1. The storage tank is equipped and operating with one of the following emission controls:</p> <p>i. A vapor control system that:</p> <p>(1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent of the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and</p> <p>(2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during the gasoline transfer; or</p> <p>ii. A floating roof; and</p> <p>2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	The provisions of NSPS Subpart A and MACT Subpart A found in GR3 and GR4 respectively are applicable to this Emission Unit [40 CFR 60]	None.	None.	None.
13	The owner or operator shall submit semiannual reports to the Administrator.[40 CFR 63.428(g)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. The reports shall include (as applicable) each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; periodic reports under 40 CFR Part 63.428(d); and the number of equipment leaks not repaired within 5 days after detection. [40 CFR 63.428(g)]
14	Storage vessel shall be equipped with a fixed roof in combination with an internal floating roof, as specified in 40 CFR 60.112b(a)1. [40 CFR 63.423(a)]	Other: Monitored by visual determination prior to filling with VOL, every time the storage vessel is emptied and degassed, and at least every 10 years, based on an instantaneous determination. Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) with the storage vessel emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years. This is as specified in 40 CFR 60.113b(a)(1) and 40 CFR 60.113b(a)(4).[40 CFR 63.425(d)].	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The owner or operator shall keep a record of each inspection. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed conditions of each component of the control equipment (seals, internal floating roof, and fittings). This is as specified in 40 CFR 60.115b(a)(2), except that the owner or operator shall keep a copy of the records for at least 5 years. [40 CFR 63.428(d)]	Submit notification: As per the approved schedule. The owner operator shall notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required to afford the Administrator the opportunity to have an observer present. If the inspection is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to refilling. This is as specified in 40 CFR 60.113b(a)(5). [40 CFR 63.425(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid at all times except during initial fill and during those intervals when the storage vessel is completely emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. This is as specified in 40 CFR 60.112b(a)(1)(i). [40 CFR 63.423(a)]	None.	None.	None.
16	The internal floating roof shall be equipped with either (1) a foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal); (2) two seals mounted one above the other; or (3) a mechanical shoe seal as specified in 40 CFR 60.112b(a)(1)(ii). [40 CFR 63.423(a)]	None.	None.	None.
17	If the internal floating roof is equipped with two seals, the seals shall be mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor mounted but both must be continuous. This is as specified in 40 CFR 60.112b(a)(1)(ii). [40 CFR 63.423(a)]	Monitored by visual determination annually, based on an instantaneous determination. Visually inspect the vessel as specified at 40 CFR 60.113b(a)(2). This is as specified in 40 CFR 60.113b(a)(3)(ii). [40 CFR 63.425(d)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The owner or operator shall keep a record of each inspection. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed conditions of each component of the control equipment (seals, internal floating roof, and fittings). This is as specified in 40 CFR 60.115b(a)(2), except that the owner or operator shall keep a copy of the records for at least 5 years. [40 CFR 63.428(d)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	If the floating roof is equipped with a mechanical shoe seal, the mechanical shoe seal shall be a metal sheet held vertically against the wall of the storage vessel by springs or weight levers and connected by braces to the floating roof. A flexible coat fabric (envelope) spans the annular space between the metal sheet and the floating roof. This is as specified in 40 CFR 60.112b(a)(1)(ii). [40 CFR 63.423(a)]	Monitored by visual determination annually, based on an instantaneous determination. Visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report specified in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. This is as specified in 40 CFR 60.113b(a)(2). [40 CFR 63.425(d)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The owner or operator shall keep a record of each inspection. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed conditions of each component of the control equipment (seals, internal floating roof, and fittings). This is as specified in 40 CFR 60.115b(a)(2), except that the owner or operator shall keep a copy of the records for at least 5 years. [40 CFR 63.428(d)]	None.
19	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. This is as specified in 40 CFR 60.112b(a)(1)(iii). [40 CFR 63.423(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	If any of the conditions described at 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), the owner or operator shall furnish the Administrator with a report which identifies the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. This is as specified in 40 CFR 60.115b(a)(3). [40 CFR 63.428(d)]	None.	Other: The owner or operator shall keep copies of all reports. This is as specified in 40 CFR 60.115b, except that the owner or operator shall keep a copy of the report for at least 5 years[40 CFR 63.428(d)].	Submit a report: As per the approved schedule. The report shall be submitted to the Administrator within 30 days of the inspection. This is as specified in 40 CFR 60.115b(a)(3). [40 CFR 63.428(d)]
21	If an inspection required by 40 CFR 60.113b(a)(3) finds holes or tears in the seal or seal fabric, defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii), the owner or operator shall submit a report identifying the storage vessel and the reasons it did not meet the specifications of 40 CFR 60.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. This is as specified in 40 CFR 60.115b(a)(4). [40 CFR 63.428(d)]	None.	Other: The owner or operator shall keep copies of all reports. This is as specified in 40 CFR 60.115b, except that the owner or operator shall keep a copy of the report for at least 5 years[40 CFR 63.428(d)].	Submit a report: As per the approved schedule. The report shall be furnished to the Administrator within 30 days of the inspection. This is as specified in 40 CFR 60.115b(a)(4). [40 CFR 63.428(d)]
22	The owner or operator shall keep a record of the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel, as specified in 40 CFR 60.116b(b). [40 CFR 63.427(c)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage once initially. This is as specified in 40 CFR 60.116(b)b, except that records shall be maintained readily accessible for the life of the source or for five years, whichever is longer. [40 CFR 63.427(c)]	None.
23	The owner or operator shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. This is as specified in 40 CFR 60.116b(c). [40 CFR 63.427(c)]	Other: Tank contents. This is as specified in 40 CFR 60.116b(c).[40 CFR 63].	Recordkeeping by data acquisition system (DAS) / electronic data storage per change of material. This is as specified in 40 CFR 60.116b(c), except that a copy of this record shall be kept for at least 5 years. [40 CFR 63.427(c)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The owner or operator shall notify the Administrator within 30 days when the maximum true vapor pressure, as determined by 40 CFR 60.116b(e), of the liquid in the storage vessel exceeds the respective maximum true vapor pressure for each volume range described at 40 CFR 60.116b(d). This is as specified in 40 CFR 60.116b(d). [40 CFR 63.427(c)]	None.	None.	Submit notification: As per the approved schedule. This is as specified in 40 CFR 116b(d). [40 CFR 63.427(c)]
25	The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa or with a design capacity greater than or equal to 75 m3 but less than 151 m3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 27.6 kPa but less than 76.6 kPa, shall equip each storage vessel with one of four options under 40 CFR 60.112b(a). For this emission unit the selected NSPS option is a fixed roof in combination with an internal floating roof meeting the following specifications: [40 CFR 60.112b(a)(1)]	None.	None.	None.
26	The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid at all times except during initial fill and during those intervals when the storage vessel is completely emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, and refilling shall be continuous and shall be accomplished as rapidly as possible. [40 CFR 60.112b(a)(1)(i)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Storage vessel shall be equipped with a fixed roof in combination with an internal floating roof. The internal floating roof shall be equipped with either (1) a foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal); (2) two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor mounted but both must be continuous. or (3) A mechanical shoe seal: A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [40 CFR 60.112b(a)(1)(ii)]	Visually inspect the internal floating roof, primary and secondary seals through manholes and roof hatches once every 12 months after initial fill Monitored by other method (provide description) annually. [40 CFR 60.113b(a)(2)]	The owner or operator shall record each inspection and keep a copy of the records. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed conditions of each component of the control equipment (seals, internal floating roof, and fittings) Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. [40 CFR 60.115b(a)(2)]	Submit a report: As per the approved schedule The owner operator shall notify the Administrator in writing at least 30 days prior to the initial filling of the storage vessel. [40 CFR 60.113b(a)(5)]
28	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. [40 CFR 60.112b(a)(1)(iii)]	None.	None.	None.
29	Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use. [40 CFR 60.112b(a)(1)(iv)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports [40 CFR 60.112b(a)(1)(v)]	None.	None.	None.
31	Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturers recommended setting [40 CFR 60.112b(1)(vi)]	None.	None.	None.
32	Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90% of the opening. [40 CFR 60.112b(a)(1)(vii)]	None.	None.	None.
33	Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. [40 CFR 60.112b(a)(1)(viii)]	None.	None.	None.
34	Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)]	None.	None.	None.
35	After installing the control equipment, the owner or operator shall furnish the Administrator with a report which describes the control equipment and which certifies that the control equipment meets the specifications of [40 CFR 60.112b(a)(1)] and [40 CFR 60.113b(a)(1)]. [40 CFR 60.115b(a)(1)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially The owner or operator shall keep a copy of the report for at least two years . [40 CFR 60.115b]	Submit a report: As per the approved schedule The report shall be submitted as an attachment to the notification required by 40 CFR 60.7(a)(3). [40 CFR 60.115b(a)(1)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	If any of the conditions described at 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), the owner or operator shall furnish the Administrator with a report which identifies the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. [40 CFR 60.115b(a)(3)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Keep a record of each inspection performed as required by 40 CFR 60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). The Permittee shall keep a copy of the report. [40 CFR 60.115b(a)(2)]	Submit a report: Other Upon occurrence of event to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 60.113b(a)(3) and list each repair made. [40 CFR 60.115b(a)(4)]
37	The owner or operator shall keep records of the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [40 CFR 60.116b(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. [40 CFR 60.116b(c)]	None.
38	For each storage vessel wither with design capacity =151 m3 storing a liquid with a maximum true vapor pressure =3.5 kPa or with design capacity =75 m3 but <151 m3 storing a liquid with a maximum true vapor pressure= 15 kPa the owner or operator shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure or RVP of that VOL during the respective storage period. [40 CFR 60.116b(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at no required frequency. [40 CFR 60.116b(c)]	None.
39	The owner or operator shall notify the Administrator within 30 days when the maximum true vapor pressure, as determined by 40 CFR 60.116b(e), of the liquid in the storage vessel exceeds the respective maximum true vapor pressure for each volume range described at 40 CFR 60.116b(d). [40 CFR 60.116b(d)]	None.	None.	Submit a report: Upon occurrence of event Notify the Administrator within 30 days. [40 CFR 60.116b(d)]

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart Dc 40 CFR 63 Subpart A 40 CFR 63 Subpart ZZZZ 40 CFR 63 Subpart DDDDD [40 CFR Federal Rules Summary]			
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.

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

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

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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 the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.
6	TSP <= 7.61 tons/yr. Annual emission limit per any 12 consecutive month period. [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [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
7	PM-10 (Total) $\leq$ 6.83 tons/yr. Annual emission limit per any 12 consecutive month period. [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [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
8	VOC (Total) <= 5.49 tons/yr. Annual emission limit per any 12 consecutive month period. [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [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	NO <sub>x</sub> (Total) ≤ 72.89 tons/yr. Annual emission limit per any 12 consecutive month period. [N.J.A.C. 7:27-22.16(a)]	NO <sub>x</sub> (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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 each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [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
10	CO <= 27.43 tons/yr. Annual emission limit per any 12 consecutive month period. [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [N.J.A.C. 7:27-22.16(o)]	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	SO <sub>2</sub> ≤ 3.43 tons/yr. Annual emission limit per any 12 consecutive month period. [N.J.A.C. 7:27-22.16(a)]	SO <sub>2</sub> : Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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 each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot oil heaters (E1602 and E1603) and two hot water heaters (E5404 and E5405). The emissions for the remaining pieces of equipment in this process shall be determined by multiplying the hours of operation of the piece of equipment by the lb/hr emission rates listed for said piece of equipment in this operating permit. The total emissions for this process per month shall be the sum of the emissions of each piece of equipment in this process. [N.J.A.C. 7:27-22.16(o)]	None.
12	Arsenic Emissions ≤ 0.0000137 tons/yr. Annual emission limit per any 12 consecutive month period based on natural gas usage (137 MMft <sup>3</sup> /yr) and AP-42 emission factor (2.0E-04 lb/MMft <sup>3</sup> ).  This applies to hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(a)]	Arsenic Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [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
13	<p>Cadmium Emissions <math>\leq 0.0000756</math> tons/yr. Annual emission limit per any 12 consecutive month period based on natural gas usage (137 MMft<sup>3</sup>/yr) and AP-42 emission factor (1.1E-03 lb/MMft<sup>3</sup>).</p> <p>This applies to hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Cadmium Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Cadmium Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(o)]</p>	None.
14	<p>Cobalt Emissions <math>\leq 0.00000577</math> tons/yr. Annual emission limit per any 12 consecutive month period based on natural gas usage (137 MMft<sup>3</sup>/yr) and AP-42 emission factor (8.4E-05 lb/MMft<sup>3</sup>).</p> <p>This applies to hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Cobalt Emissions: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Cobalt Emissions: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(o)]</p>	None.
15	<p>Dimethylbenz(a)anthracene (7,12-) <math>\leq 0.0000011</math> tons/yr. Annual emission limit per any 12 consecutive month period based on natural gas usage (137 MMft<sup>3</sup>/yr) and AP-42 emission factor (1.60E-05 lb/MMft<sup>3</sup>).</p> <p>This applies to hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(a)]</p>	<p>Dimethylbenz(a)anthracene (7,12-): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Dimethylbenz(a)anthracene (7,12-): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(o)]</p>	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Formaldehyde $\leq 0.00515$ tons/yr. Annual emission limit per any 12 consecutive month period based on natural gas usage (137 MMft <sup>3</sup> /yr) and AP-42 emission factor (7.50E-02 lb/MMft <sup>3</sup> ).  This applies to hot water heaters (E5404 and E5405). [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(o)]	None.
17	HAPs (Total) $\leq 0.00525$ tons/yr. Annual emission limit per any 12 consecutive month period.  This applies to hot water heaters (E5404 and E5405). [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). The permittee shall calculate the 12-month rolling period emissions on a monthly basis. The permittee shall maintain fuel use records for each type of fuel fired in each piece of equipment that fires fuel and records of the hours of operation for the remaining pieces of equipment in this process. [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. Total emissions per any consecutive 12-month period shall be calculated by the sum of the total emissions during any one month added to the sum of the total emissions during the preceding 11 months. The permittee shall calculate these total emissions by using fuel use records and appropriate emission estimating methods for the two hot water heaters (E5404 and E5405). [N.J.A.C. 7:27-22.16(o)]	None.
18	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A for Hot Oil Heaters F-169P (E1602) and F-170P (E1603). See Group 3. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Submit a report: As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
19	The owner or operator shall comply, with the following standards as required in 40 CFR 60.48c (NSPS Subpart Dc) for Hot Oil Heaters F-169P (E1602) and F-170P (E1603). [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60.48c (NSPS Subpart Dc).[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60.48c (NSPS Subpart 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 60.48c (NSPS Subpart Dc). [40 CFR 60]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator shall record the amount of each fuel combusted in the unit each calendar month. [40 CFR 60.48c]	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 log book or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
21	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c]	None.	None.	None.
22	As provided in 40 CFR 63 MACT Subpart DDDDD Table 10, the owner or operator shall comply, as applicable, with the standards required in 40 CFR 63 Subpart A for Hot Oil Heaters F-169P (E1602) and F-170P (E1603) and Hot Water Heaters Bio Heater 1 (E5404) and Bio Heater 2 (5405). See Group 4(GR4) for Subpart A requirements and 40 CFR 63 MACT Subpart DDDDD Table 10 for modifications to GR4. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 Subpart A as modified by 40 CFR 63 MACT Subpart DDDDD.[40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 Subpart A as modified by 40 CFR 63 MACT Subpart DDDDD.[40 CFR 63].	Submit a report: As per the approved schedule , the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 63 Subpart A as modified by 40 CFR 63 MACT Subpart DDDDD. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 63]
23	The owner or operator shall comply, as applicable, with the standards as required in 40 CFR 63 MACT Subpart DDDDD for Hot Oil Heaters F-169P (E1602) and F-170P (E1603) and Hot Water Heaters Bio Heater 1 (E5404) and Bio Heater 2 (5405). See GR6 for MACT Subpart DDDDD requirements. [40 CFR 63]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 MACT Subpart DDDDD.[40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 MACT Subpart DDDDD.[40 CFR 63].	Submit notification: As per the approved schedule. The owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 63 MACT Subpart DDDDD. [40 CFR 63]

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**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS8 F-169P - 47.04 MMBtu/hr Hot Oil Heater firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke 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	TSP <= 10.7 lb/hr Particulate emission limit from the combustion of fuel based on rated heat input of source for F-169P (E1602). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 47.04 MMBTU/hr (HHV) for F-169P (E1602). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
4	Hot Oil Heater F-169P (E1602) fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Natural Gas Usage <= 412.07 MMft <sup>3</sup> /yr (standard) for Hot Oil Heater F-169P (E1602) and <= 1.129 MMSCF/day. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously Flow rate meter. Continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation Cubic feet per any 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. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-10 (Total) <= 0.38 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 0.47 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.24 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	CO <= 1.65 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	NOx (Total) <= 2.35 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	NOx (Total) <= 0.05 lb/MMBTU The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour and fired with natural gas, whether or not it is located at a major NOx facility, but which is not located at a petroleum refinery, shall cause the boiler or other indirect heat exchanger to emit NOx at a rate no greater than. [N.J.A.C. 7:27-19.7(i)]			
12	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. [40 CFR 60.48c(a)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.48c(a)]
13	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f), fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels shall record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR 60.48c(g)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(2)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator of an affected facility or multiple affected facilities located on a contiguous property where the only fuels combusted in any steam generating unit (including steam generating units not subject to NSPS Dc) at that property are natural gas, wood or distillate oil may record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. [40 CFR 60.48c(g)(3)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(3)]	None.
15	The owner or operator shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)]	None.	None.	None.
16	See Subject Item Group (GR6) for applicable MACT DDDDD requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS9 F-170P - 47.04 MMBtu/hr Hot Oil Heater firing natural gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke 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	TSP <= 10.7 lb/hr Particulate emission limit from the combustion of fuel based on rated heat input of the Hot Oil Heater for F-170P (E1603). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 47.04 MMBTU/yr (HHV) for F-170P (E1603). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
4	Hot Oil Heater F-170P (E1603) fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Natural Gas Usage <= 412.07 MMft <sup>3</sup> /yr (standard) for the Hot Oil Heater F-170P (E1603) and <= 1.129 MMSCF/day. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously Flow rate meter. Continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation Cubic feet per any 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. . [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-10 (Total) <= 0.38 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP <= 0.47 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	VOC (Total) <= 0.24 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO <= 1.65 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	NO <sub>x</sub> (Total) ≤ 2.35 lb/hr. The maximum emission limit based on the preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger, with a maximum gross heat input rate of at least 25 million BTU per hour and fired with natural gas, whether or not it is located at a major NO <sub>x</sub> facility, but which is not located at a petroleum refinery, shall cause the boiler or other indirect heat exchanger to emit NO <sub>x</sub> at a rate no greater than NO <sub>x</sub> (Total) ≤ 0.05 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)]			
12	The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7. This notification shall include information specified in 40 CFR 60.48c(a)1 through (a)4. [40 CFR 60.48c(a)]	None.	None.	Submit a report: Upon occurrence of event. [40 CFR 60.48c(a)]
13	The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f), fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels shall record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR 60.48c(g)(2)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(2)]	None.
14	The owner or operator of an affected facility or multiple affected facilities located on a contiguous property where the only fuels combusted in any steam generating unit (including steam generating units not subject to NSPS Dc) at that property are natural gas, wood or distillate oil may record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. [40 CFR 60.48c(g)(3)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [40 CFR 60.48c(g)(3)]	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 shall maintain all required records for a period of two years following the date of such record. [40 CFR 60.48c(i)]	None.	None.	None.
16	See Subject Item Group (GR6) for applicable MACT DDDDD requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS10 1100 kW Cummins Emergency Diesel Generator (11.5 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 6.3 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.36 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.36 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.36 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate from preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 36.7 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 5.85 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 2.01 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<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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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<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. [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
13	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.
14	Maximum Gross Heat Input <= 11.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	At all times the owner or operator must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2i)]	None.	None.	None.

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

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS11 250 kW Kohler Emergency Diesel Generator (1.54 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 0.92 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.74 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.74 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.84 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate from preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 10.39 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 2.24 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 0.32 lb/hr. Maximum allowable emission rate from preconstruction permit. [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
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<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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**New Jersey Department of Environmental Protection  
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<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. [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
13	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.
14	Maximum Gross Heat Input <= 1.54 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	See Subject Item Group (GR5) for applicable MACT ZZZZ requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS12 198 kW Clarke Diesel Pump (1.95 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.17 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.6 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.6 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.7 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate from preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 8.5 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 1.85 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 0.56 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<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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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<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. [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
13	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.
14	Maximum Gross Heat Input <= 1.95 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(0)].	None.
15	See Subject Item Group (GR5) for applicable MACT ZZZZ requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS13 155 kW Cummins Emergency Diesel Pump (1.42 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 0.85 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.46 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.46 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.52 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate from preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 6.45 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 1.54 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 0.3 lb/hr. Maximum allowable emission rate from preconstruction permit. [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**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<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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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<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. [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
13	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.
14	Maximum Gross Heat Input <= 1.42 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	See Subject Item Group (GR5) for applicable MACT ZZZZ requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS14 172 kW Cummins Emergency Diesel Pump (1.68 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.01 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.51 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.51 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.58 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate from preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 7.13 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 1.7 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	SO2 <= 0.35 lb/hr. Maximum allowable emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	<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> <ol style="list-style-type: none"> <li>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,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>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]</li> </ol>	<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> <ol style="list-style-type: none"> <li>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.</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol 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> </ol> </li> <li>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.</li> </ol> <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
12	<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. [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
13	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.
14	Maximum Gross Heat Input <= 1.68 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
15	See Subject Item Group (GR5) for applicable MACT ZZZZ requirements. [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 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS15 Rental Emergency Air Compressor (3 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.8 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.93 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.93 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 1.08 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 13.23 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.85 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.87 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV) for Rental Emergency Air Compressor (E2106). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<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> <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
13	<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. [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
14	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)]	<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 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. [N.J.A.C. 7:27-19.11]</li> </ul>	None.

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

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS16 Contractor - Mix Tank A, OS17 Contractor - Oil Water Separator A, OS18 Contractor - Frac Tank A, OS19 Contractor - Frac Tank Storage Container A1, OS20 Contractor - Frac Tank Storage Container A2, OS21 Contractor - Frac Tank Storage Container A3, OS22 Contractor - Decanter/Centrifuge A, OS23 Contractor - Mix Tank B, OS24 Contractor - Oil Water Separator B, OS25 Contractor - Frac Tank B, OS26 Contractor - Frac Tank Storage Container B1, OS27 Contractor - Frac Tank Storage Container B2, OS28 Contractor - Frac Tank Storage Container B3, OS29 Contractor - Decanter/Centrifuge B, OS30 Contractor - Mix Tank C, OS31 Contractor - Oil Water Separator C, OS32 Contractor - Frac Tank C, OS33 Contractor - Frac Tank Storage Container C1, OS34 Contractor - Frac Tank Storage Container C2, OS35 Contractor - Frac Tank Storage Container C3, OS36 Contractor - Decanter/Centrifuge C, OS37 Contractor - Mix Tank D, OS38 Contractor - Oil Water Separator D, OS39 Contractor - Frac Tank D, OS40 Contractor - Frac Tank Storage Container D1, OS41 Contractor - Frac Tank Storage Container D2, OS42 Contractor - Frac Tank Storage Container D3, OS43 Contractor - Decanter/Centrifuge D



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum allowable emission rate shall be determined from Tables 16a and 16b of N.J.A.C.7:27-16.16 , based on VOC vapor and percent VOC in source gas. The maximum allowable emission rate shall be the pounds (kilograms) per hour (or per batch cycle hour) equivalent to the percent of the process emissions shown in Column 2 or the Exclusion Rate shown in Column 3, whichever is greater. [N.J.A.C. 7:27-16.16(d)]	Other: The owner or operator shall demonstrate compliance by calculations, testing or by conducting 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].	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. Maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA. 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.7:27-16.22(a) &[N.J.A.C. 7:27-16.16(g)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Any person subject to any recordkeeping provision of N.J.A.C. 7:27-16 shall maintain the required record for a period of no less than five years and shall make those records available upon the request of the NJDEP or the EPA or any duly authorized representative of the NJDEP or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: The permittee shall maintain the required records for a period of no less than five years and shall make those records available upon request of the NJDEP or the EPA or any duly authorized representative of the NJDEP or EPA. [N.J.A.C. 7:27-16.22(a)].	None.
3	VOC Limit Between the Primary and Secondary Carbon Units <= 56 ppmvd The carbon shall be changed out in CD5001, 5011, 5021, 5031 when the VOC Concentration (as methane) of the Carbon is > 56 ppmvd. When breakthrough occurs, the primary carbon unit shall be removed, the secondary carbon unit will replace the primary unit and a fresh, unused carbon unit shall replace the secondary carbon unit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor the VOC concentration (as methane) of the carbon using a portable hydrocarbon monitor. Daily, when equipment is in operation. [N.J.A.C. 7:27-22.16(o)].	Other: VOC Limit Between the Primary and Secondary Carbon Units: Recordkeeping by manual logging of parameter. Daily, when equipment is in operation. The permittee shall also record the date and time of when the carbon is changed out. [N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 0.05 lb/hr Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	The permittee shall record the hours of equipment operation. [N.J.A.C. 7:27-22.16(a)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS44 Contractor - Portable Boiler A (4.2 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke 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	TSP <= 2.52 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
3	TSP <= 0.1 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.1 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 0.6 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 0.15 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.85 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Boiler fuel limited to #2 fuel oil. [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
11	Hours of Operation <= 500 hr/yr for the boiler. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event. [N.J.A.C. 7:27-22.16(e)]	None.
12	Maximum Gross Heat Input <= 4.2 MMBTU/hr (HHV) maximum heat input from preconstruction permits for Contractor - Portable Boiler (E5101). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>To qualify as a temporary boiler as defined in MACT DDDDD and not be subject to the requirements of MACT DDDDD the boiler must not satisfy any of the following conditions:</p> <p>(1) The equipment is attached to a foundation.</p> <p>(2) The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.</p> <p>(3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.</p> <p>(4) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.</p> <p>[40 CFR 63.7575]</p>	None.	None.	None.

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

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS45 Contractor - Portable Boiler B (4.2 MMBtu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: No visible smoke 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	TSP <= 2.52 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
3	TSP <= 0.1 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.1 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 0.6 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 0.15 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.85 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Boiler fuel limited to #2 fuel oil. [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
11	Hours of Operation <= 500 hr/yr for the boiler. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 4.2 MMBTU/hr (HHV). Maximum heat input from preconstruction permits for Contractor - Portable Boiler (E5101). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>To qualify as a temporary boiler as defined in MACT DDDDD and not be subject to the requirements of MACT DDDDD the boiler must not satisfy any of the following conditions:</p> <p>(1) The equipment is attached to a foundation.</p> <p>(2) The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.</p> <p>(3) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.</p> <p>(4) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.</p> <p>[40 CFR 63.7575]</p>	None.	None.	None.



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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS46 Contractor - Portable Diesel Equipment A 1 (3.0 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV) from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	The engine must be EPA Tier II (or higher) from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep certificate of EPA Tier II on site.[N.J.A.C. 7:27-22.16(o)].	None.
14	Total Hours of Operation <= 30 days. The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS47 Contractor - Portable Diesel Equipment A 2 (3.0 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to 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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 3 MMBTU/hr (HHV) from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	The engine must be EPA Tier II (or higher) from BOP070001. [N.J.A.C. 7:27-22.16(a)]	Other: monitored by recordkeeping.[N.J.A.C. 7:27-22.16(o)].	Other: Keep certificate of EPA Tier II on site.[N.J.A.C. 7:27-22.16(o)].	None.
14	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS48 Contractor - Portable Diesel Equipment A 3 (2.2 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 2.2 MMBTU/hr (HHV) from preconstruction permit for Contractor - Portable Diesel Equipment 3 (E5203). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-23.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS49 Contractor - Portable Diesel Equipment A 4 (2.2 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 2.2 MMBTU/hr (HHV) from preconstruction permits for Contractor - Portable Diesel Equipment 4 (E5204). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	Other: monitored by recordkeeping.[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 upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS50 Contractor - Portable Diesel Equipment A 5 (2.2 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 2.2 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS51 Contractor - Portable Diesel Equipment A 6 (2.2 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 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.
3	TSP <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.67 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 9.55 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 2.06 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.63 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 2.2 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days. The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS52 Contractor - Portable Diesel Equipment B 7 (1.88 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.11 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.68 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.28 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.54 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.88 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS53 Contractor - Portable Diesel Equipment B 8 (1.88 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.11 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.68 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.28 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.54 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.88 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days. The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS54 Contractor - Portable Diesel Equipment B 9 (1.88 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.11 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.68 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.28 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.54 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.88 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days. The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS55 Contractor - Portable Diesel Equipment B 10 (1.88 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.11 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.58 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.68 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.28 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.78 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.54 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.88 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS56 Contractor - Portable Diesel Equipment C 11 (1.92 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.15 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.69 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.46 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.82 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.56 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.92 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS57 Contractor - Portable Diesel Equipment C 12 (1.92 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.15 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.69 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.46 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.82 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.56 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Generator fuel limited to diesel fuel. [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
11	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
12	Maximum Gross Heat Input <= 1.92 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [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:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS58 Contractor - Portable Diesel Equipment C 13 (1.92 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 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.15 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	TSP <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.59 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	VOC (Total) <= 0.69 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	HAPs (Total): Maximum allowable emission rate is below the reporting threshold. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 8.46 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 1.82 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.56 lb/hr. Maximum allowable emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 500 hr/yr for each generator. Permittee's self imposed hours operation limit. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall monitor and record the startup and shutdown time of equipment operation. Once per startup/shutdown of equipment when in operation. Or monitored by hour meter, continuously when equipment is onsite.[N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping by recording the hours of operation monthly. Log year-to-date hours of operation in a logbook or electronically (computer, DAS or electronic operating system). The permittee shall also manually log instances (date and time) when the operation of the equipment has the potential to cause off-property effects, upon the occurrence of the event.[N.J.A.C. 7:27-22.16(e)].	None.
11	Maximum Gross Heat Input <= 1.92 MMBTU/hr (HHV) Maximum heat input from preconstruction permits. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	Total Hours of Operation <= 30 days The engine is not permitted to be located at a single site (for example, any building, structure, facility, or installation) for more than 30 days if it is used for the generation of electricity, unless it is a construction engine from BOP070001. [N.J.A.C. 7:27-22.16(a)]	None.	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event document the duration of on-site use of this engine. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U19 Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment

**Operating Scenario:** OS59 One (1) 8 MMBtu/hr Hot Water Heater, OS60 One (1) 8 MMBtu/hr Hot Water Heater

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 4.8 lb/hr. Maximum allowable particulate emission rate for each stack PT5404 and PT5405 based on the sum of the maximum rated heat inputs of all fuel burning equipment discharging through the stack (E5404 and E5405). [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Maximum Gross Heat Input <= 8 MMBTU/hr (HHV) for each hot water heater (E5404 and E5405). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rating.[N.J.A.C. 7:27-22.16(o)].	None.
4	Hot water heaters (E5404 and E5405) fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Natural Gas Usage <= 68.7 MMft <sup>3</sup> per any consecutive 12 month period for each hot water heater (E5404 and E5405), assuming 1,020 Btu/ft <sup>3</sup> . [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The owner or operator shall install and operate a fuel totalizer to monitor the total amount of fuel burned for any 12 consecutive months. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Cubic feet per any 12 consecutive months shall be calculated by the sum of the cubic feet consumed during any one month added to the sum of the cubic feet consumed during the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-10 (Total) <= 0.06 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (7.6 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	TSP $\leq$ 0.06 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (7.6 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO $\leq$ 0.304 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr) and manufacturer emission factor (0.038 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) $\leq$ 0.28 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr) and manufacturer emission factor (0.035 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Arsenic Emissions $\leq$ 0.00000157 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (2.0E-04 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Cadmium Emissions $\leq$ 0.00000863 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (1.1E-03 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Cobalt Emissions $\leq$ 6.59E-7 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (8.40E-05 lb/MMft <sup>6</sup> ). [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
13	Dimethylbenz(a)anthracene (7,12-) $\leq$ 1.25E-7 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (1.60E-05 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Formaldehyde $\leq$ 0.000588 lb/hr for each hot water heater (E5404 and E5405). Maximum hourly emission rate based on maximum gross heat input (8 MMBtu/hr), heating value of fuel (1,020 Btu/ft <sup>3</sup> ), and AP-42 emission factor (7.50E-02 lb/MMft <sup>6</sup> ). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	See Subject Item Group (GR6) for applicable MACT Subpart DDDDD requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U20 Effluent Treatment Plant

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. Applies to all operating scenarios except OS3. [N.J.A.C. 7:27-16.16(d)]	Other: The owner or operator shall demonstrate compliance by calculations, testing or by conducting 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)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. Maintain records for a period of no less than five years and shall make those records available upon request of the Department or EPA. 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.7:27-16.22(a) &[N.J.A.C. 7:27-16.16(g)1].	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 person shall cause, suffer, allow or permit the use of any oil-water separator unless such separator is covered with a lid while containing VOC. Sections of oil-water separators containing essential powered mechanical devices operating above the liquid level are not subject to this requirement. Applies to OS3. [N.J.A.C. 7:27-16.6(n)]	None.	None.	None.
3	VOC (Total) <= 24.19 tons/yr. Annual emission limit based on 8760 hours/year, includes source fugitive emissions from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	HAPs (Total) <= 2.7 tons/yr. Annual emission limit based on 8760 hours/year of operation from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Benzene <= 0.22 tons/yr. Annual emission limit based on 8760 hours/year of operation from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Xylene <= 2.48 tons/yr. Annual emission limit based on 8760 hours/year of operation from BOP140001.. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	In order to characterize the pollutants in the intake water to the Effluent Treatment Plant, the permittee shall sample the intake wastestream for Total VOC on a monthly basis. All intake wastestreams must be represented in the sample by conducting sampling after the wastestreams are consolidated or by sampling individual wastestreams collectively. [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by laboratory analysis. Monthly.[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 Manual logging or electronic data storage. Monthly. [N.J.A.C. 7:27-22.16(o)]	None.
8	Raw material limited to wastewater containing impurities such as oil, grease, suspended solids and salts of varying quantities. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Any HAP not listed with an annual emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS1 #3 API Separator Diversion Box

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.54 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Benzene <= 0.05 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[N.J.A.C. 7:27-22.16(o)].	Benzene: 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.
3	Xylene <= 0.26 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[N.J.A.C. 7:27-22.16(o)].	Xylene: 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.
4	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS2 #3 API Separator Forebay

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.51 lb/hr. Maximum emission rate from BOP140001.. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS3 #3 API Separator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.89 lb/hr. Maximum emission limit from BOP140001.. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Xylene <= 0.31 lb/hr. Maximum emission limit from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[N.J.A.C. 7:27-22.16(o)].	Xylene: 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.
3	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS4 IAF Unit K-9200

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.88 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS5 IAF Unit K-9201

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.88 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS6 Equalization Tank T-9200

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.07 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U20 Effluent Treatment Plant

Operating Scenario: OS7 Oily Water Bin

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.25 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	Other: The owner or operator shall take a grab or composite sample of the wastewater stream prior to the API Separator once per month and calculate the hourly emission rate using the USEPA Water 9 Model (or comparable USEPA approved model) for air emissions.[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.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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:** U20 Effluent Treatment Plant**Operating Scenario:** OS8 Oil Bin

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Volatile Organic Compounds (VOCs) shall not be emitted from this operating scenario at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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:** U20 Effluent Treatment Plant**Operating Scenario:** OS9 Stormwater Diversion Box

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Volatile Organic Compounds (VOCs) shall not be emitted from this operating scenario at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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:** U20 Effluent Treatment Plant**Operating Scenario:** OS10 Float Separation Tank T-9201

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Volatile Organic Compounds (VOCs) shall not be emitted from this operating scenario at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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:** U20 Effluent Treatment Plant**Operating Scenario:** OS11 Sludge Mixing Tank T-9205

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Volatile Organic Compounds (VOCs) shall not be emitted from this operating scenario at a rate that exceeds the applicable reporting threshold specified in N.J.A.C.7:27-22, Appendix. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Any HAP not listed with an hourly emission limit within the requirements for U20 shall not be emitted from any source in U20 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: U22 Seven Additive Tanks

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum capacity of each additive tank is 4,000 gallons. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Permittee's annual throughput limit from BOP120002 for each tank. Total Throughput <= 48,000 gal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Amount of gasoline additive delivered by date. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Keep records of invoices/bills of lading showing materials delivered per delivery as well as monthly cumulative throughput total in a logbook.[N.J.A.C. 7:27-22.16(o)].	None.
3	No person shall cause, suffer, allow, or permit the following: 1. The storage of any applicable VOC in any stationary storage tank that has a maximum capacity of 2,000 gallons (7,570 liters) or greater and is exposed to the rays of the sun unless: i. The external surface of the tank is painted and maintained white, except that this provision shall not apply to words and logograms applied to the external surface of the storage tank for purposes of identification provided such symbols do not cover more than 20 percent of the external surface area of the tank's sides and top or more than 200 square feet (18.6 square meters), whichever is less; or ii. An equivalent method of emission control approved by the Department is used [N.J.A.C. 7:27-16.2(b)1i]	Other: Visual Determination.[N.J.A.C. 7:27-22.16(o)].	None.	None.
4	A record must be maintained specifying each VOC stored and the vapor pressure of each VOC at standard conditions. [N.J.A.C. 7:27-16.2(s)]	Other: Tank content and vapor pressure.[N.J.A.C. 7:27-16.2(s)].	Maintain records of the VOC's stored and the vapor pressures of the VOC's Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-16.2(s)]	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	Transfer of any applicable VOC shall be made only through a submerged fill pipe or other means approved by the Department. [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
6	Vapor Pressure <= 0.2097 psia @ 70 degrees F and tank contents shall be limited to gasoline additives and diesel additives from BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Tank Contents. Per Delivery.[N.J.A.C. 7:27-22.16(a)].	Other: Keep records showing the vapor pressure of materials delivered. Per delivery.[N.J.A.C. 7:27-22.16(a)].	None.

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

**Emission Unit:** U24 Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Conduct a comprehensive stack test for stack 025 (PT2401) ,using an approved protocol at least 18 months prior to the expiration of the approved renewal operating permit which expires on 2/3/20 and each permit after to demonstrate compliance with the 1mg/L VOC emission limit 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. The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for VOC, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]	Other: See monitoring requirements OS1 and OS3.[N.J.A.C. 7:27-22.16(o)].	Other: See recordkeeping requirements OS1 and OS3.[N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the 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.  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)]
2	VOC (Total) <= 1 mg/liter of liquid loaded for OS1. Permittee shall equip and operate the facility with a vapor control system that reduces the total VOC emissions to the outdoor atmosphere to 1mg/L during transfers. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results prior to permit expiration date. See stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule See stack testing requirements in 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
3	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)]	None.	Other: Maintain readily accessible records for 5 years.[N.J.A.C. 7:27-16.22(a)].	None.
4	VOC (Total) <= 3.7 tons/yr. Maximum allowable emission limit based on total annual hours from BOP120002.. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.03 tons/yr. Maximum allowable emission limit based on total annual hours from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.03 tons/yr. Maximum allowable emission limit based on total annual hours from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	NOx (Total) <= 0.41 tons/yr. Maximum allowable emission limit based on total annual hours from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	CO <= 0.35 tons/yr. Maximum allowable emission limit based on total annual hours from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC Control Efficiency >= 95 %. When the primary control device is inoperable, the permittee shall operate a backup control apparatus, which reduces the total VOC emissions to the outdoor atmosphere resulting from transfers at the facility by no less than the specified amount. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Hours of Operation <= 100 hr/yr Operation of the back-up control device (CD1798) under Operating Scenarios 3 and 4 shall be limited to less than 100 hours per year. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event The permittee shall monitor the hours of operation under Operating Scenario 3 and Operating Scenario 4. [N.J.A.C. 7:27-22.16(o)]	Other: The permittee shall record the hours of operation under Operating Scenario 3 and Operating Scenario 4.[N.J.A.C. 7:27-22.16(o)].	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	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(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA date and quarterly reports[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 Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX

**Operating Scenario:** OS1 Light Product Loading

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Organic Compounds <= 1 mg/liter gasoline loaded The VOC concentration shall be measured as TNMHC (Total Non Methane Hydrocarbons). [N.J.A.C. 7:27-22.16(a)]	Total Organic Compounds: Monitored by continuous emission monitoring system continuously based on 1 minute intervals utilized to calculate 60-minute block averages. Maximum TNMHC concentration shall not exceed 620 ppm measured as TNMHC, based on a 6-hour rolling average based on 60-minute blocks of continuous/non-continuous operation. The 6 hour rolling average based on 60 minute blocks captured during periods of loading. Loading periods may be added together until they have 60 minutes of data to fill the 60 minute block. All one minute data collected during applicable loading operations will be used to populate an active 60 minute block until the block has 60 minutes of data. Once a block is full, the data will begin to populate the next 60 minute block. When you have 6 full 60 minute blocks, you can then compare to the 6 hour rolling average. [N.J.A.C. 7:27-22.16(o)]	Other: TNMHC emissions shall be recorded for each 6-hour rolling block period, based on 60-minute blocks. Maintain electronic chart or records of the output signal from the TNMHC monitor and record the date and time of replacement carbon units. [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 calendar quarter (the calendar quarters 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)]
2	All air contaminants from the Light Products Loading Rack (E2402) shall be directed to the vacuum assisted vapor recovery unit (CD2401) when transferring any substance into a gasoline-vapor laden delivery vehicle from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 1.18 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs See stack testing requirement in U24, OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event See stack testing requirement in U24, OS Summary, Ref#1. [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 requirement in U24, OS Summary, Ref#1. [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
4	Truck loading limited to any petroleum hydrocarbon liquid (treated as gasoline) that is not a HAP as defined at 40 CFR 63.1(a)(2). [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by invoices / bills of lading upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
5	On a daily basis, the permittee shall maintain records of gasoline or applicable VOC loading operations except for marine vessel loading. [N.J.A.C. 7:27-16.3(t)1] & [N.J.A.C. 7:27-16.4(o)1]	Other: Monitored by bill of lading for each delivery vessel loaded.[N.J.A.C. 7:27-22.16(o)].	Other: Manually or electronically record the name and total quantity of each applicable VOC, in gallons or liters, loaded daily into delivery vessels at the facility in a logbook or electronic data storage. [N.J.A.C. 7:27-16.3(t)1] &[N.J.A.C. 7:27-16.4(o)1].	None.
6	Total Material Transferred <= 140,800 gal/hr per bay from BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bill of lading for each delivery vessel loaded.[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 daily Total Material Transferred: Recordkeeping by manual or electronic logging of parameter per day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	See GR3 and GR4 for applicable requirements from NSPS Subpart A, General Provisions and MACT Subpart A, General Provisions, respectively. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Total Material Transferred <= 600 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bill of lading for each delivery vessel loaded.[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 each month during operation Total Material Transferred: Recordkeeping by manual or electronic logging of parameter summed each month and summed year-to-date for one calendar year during operation. Manual logging or electronic data storage of the throughput. [N.J.A.C. 7:27-22.16(o)]	None.
9	Transfer of gasoline or applicable VOCs into a receiving vessel greater than 2,000 gallons shall be made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] & [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The permittee shall not conduct the transfer of gasoline or applicable VOCs to tank trucks which are under a pressure in excess of 18 inches of water, or from tank trucks under a vacuum in excess of 6 inches of water. [N.J.A.C. 7:27-16.3(k)] & [N.J.A.C. 7:27-16.4(j)]	Other: Vapor control system shall be operated with a pressure/vacuum vent (P/V Vent) set to relieve at maximum 18 inches water pressure and maximum 6 inches water vacuum. Delivery vessel operator shall shut down pumping operation when the pressure/vacuum limits are exceeded.[N.J.A.C. 7:27-22.16(o)].	None.	None.
11	The permittee shall not transfer any gasoline or applicable VOCs 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 or less from the location of the leak. [N.J.A.C. 7:27-16.3(o)1i] & [N.J.A.C. 7:27-16.4(k)1i]	Other: Visual determination of any leaks from a delivery vessel shall be conducted during each loading cycle. If any visible leaks (fumes) are detected, the owner or operator shall immediately verify compliance with a portable instrument. If non-compliance is detected, the transfer operation shall cease immediately. [N.J.A.C. 7:27-16.3(o)1i] & [N.J.A.C. 7:27-16.4(k)1i].	Other: Recordkeeping by manual or electronic logging of parameter upon occurrence of event. Manually or electronically (computer, DAS or electronic operating system) log each instance of a leak. [N.J.A.C. 7:27-16.3(t)3] & [N.J.A.C. 7:27-16.4(o)3].	None.
12	The permittee shall not transfer gasoline or applicable VOCs 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(o)1ii] & [N.J.A.C. 7:27-16.4(k)1ii]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination during loading and unloading. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual or electronic logging of parameter upon occurrence of event. The permittee shall electronically or manually record each instance of detection of a liquid leak in the delivery vessel in a form readily available for inspection. [N.J.A.C. 7:27-16.3(t)3] & [N.J.A.C. 7:27-16.4(o)3].	None.
13	The permittee shall not transfer gasoline or applicable VOCs if any component of the delivery vessel designed for preventing the release of gasoline or applicable VOC vapors is not installed and operating as designed. [N.J.A.C. 7:27-16.3(o)2] & [N.J.A.C. 7:27-16.4(k)]	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
14	No person shall cause, suffer, allow, or permit the transport or transfer of gasoline or applicable VOCs in a delivery vessel having a maximum capacity of 2,000 gallons or greater unless such vessel is vapor-tight at all times while containing any VOC except during periods of sample collection, emergency conditions, gauging, or venting through a vapor control system approved by the Department. [N.J.A.C. 7:27-16.3(l)] & [N.J.A.C. 7:27-16.4(l)]	None.	None.	None.
15	The owner or operator shall conduct performance tests of the vapor processing system(s) according to the test methods and procedures in 40 CFR Part 60.503(b), except a reading of 500 ppm shall be used to determine level of leaks to be repaired. [40 CFR 63.425(a)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The permittee shall maintain on site for a minimum period of 5 years, a copy of the stack test report. [N.J.A.C. 7:27-22.16(o)]	None.
16	The facility shall be equipped with a Vapor Collection system designed to collect the total organic compounds vapors displaced from tanks during transfer of gasoline. [40 CFR 60.502(a)]	None.	None.	None.
17	VOC (Total) <= 35 mg/liter gasoline loaded. [40 CFR 60.502(b)]	VOC (Total): Monitored by stack emission testing once initially. The owner or operator shall determine compliance with the standards in 40 CFR 60.502 (b) as follows: (1) The performance test shall be 6 hours long during which at least 300,000 liters of gasoline is loaded. If this is not possible, the test may be continued the same day until 300,000 liters of gasoline is loaded or the test may be resumed the next day with another complete 6-hour period. In the latter case, the 300,000-liter criterion need not be met. However, as much as possible, testing should be conducted during the 6-hour period in which the highest throughput normally occurs. Test methods as specified in 40 CFR 60.503(c) shall be used.  [40 CFR 60.503(c)]	VOC (Total): Recordkeeping by stack test results once initially. [40 CFR 60.7]	Submit a stack test report: Within 60 days of stack testing. [40 CFR 60.7]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The owner or operator shall assure that an annual certification testing of each gasoline cargo tank loading at the facility is conducted. [40 CFR 63.425(e)]	Other: Provide assurance that tests shall be performed using the procedures at 40 CFR Part 63.425(e)(1) and (2).[40 CFR 63.425(e)].	Other: Records shall include all information specified at 40 CFR Part 63.428(b)(3).[40 CFR 63.428(b)(1)].	None.
19	The Vapor Control System shall be designed to prevent any total organic compounds vapors collected at one loading rack from passing to another loading rack . [40 CFR 60.502(d)]	None.	None.	None.
20	Loading of liquid product into gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks. [40 CFR 60.502(e)]	None.	None.	None.
21	Permittee shall record the gasoline tank truck identification number as each tank is loaded. [40 CFR 60.502(e)(2)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event or manually log tank identification number as each gasoline truck is loaded at the affected facility. [40 CFR 60.505(e)(2)]	None.
22	Permittee shall cross-check each tank identification number obtained pursuant to 40 CFR Part 60.502(e) with the file of vapor tightness documentation within two (2) weeks after the corresponding tank is loaded. [40 CFR 60.502(e)(3)]	None.	None.	None.
23	Permittee shall notify the owner or operator of each non-vapor tight gasoline tank truck loaded at the facility within 1 week after the documentation cross-check in paragraph 40 CFR 502 (e)(3) of this section. [40 CFR 60.502(e)(4)]	None.	Recordkeeping by manual logging of parameter upon request of the Department. Permittee shall keep documentation of each notification on file at the terminal for at least 2 years. [40 CFR 60.505(d)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	The terminal owner or operator shall take steps assuring that the nonvapor-tight gasoline cargo tank will not be reloaded at the facility until vapor tightness documentation for that gasoline cargo tank is obtained which documents that: (i) The tank truck or railcar gasoline cargo tank meets the test requirements in 40 CFR 63.425(e), or the railcar gasoline cargo tank meets applicable test requirements in 40 CFR 63.425(i); (ii) For each gasoline cargo tank failing the test in 40 CFR 63.425 (f) or (g) at the facility, the cargo tank either: (A) Before repair work is performed on the cargo tank, meets the test requirements in 40 CFR 63.425 (g) or (h), or (B) After repair work is performed on the cargo tank before or during the tests in 40 CFR 63.425 (g) or (h), subsequently passes the annual certification test described in 40 CFR 63.425(e). [63.422(c)(2)} and [40 CFR 60.502(e)(5)]	None.	None.	None.
25	Permittee shall comply with all procedures specified in the affected facility's gasoline tank truck loading procedures approved by the Administrator. [40 CFR 60.502(e)(6)]	None.	None.	None.
26	Permittee shall act to assure that loadings of gasoline tank trucks at the affected facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system. [40 CFR 60.502(f)]	None.	None.	None.
27	Permittee shall assure that the terminal's and the tank truck's Vapor Recovery systems are connected during each loading of a gasoline tank truck. This includes training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks. [40 CFR 60.502(f)] and. [40 CFR 60.502(g)]	Monitored by visual determination per delivery, based on no averaging period. [40 CFR 60.502(g)]	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
28	Gauge Pressure in the Delivery Tank $\leq$ 4,500 pascals. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4,500 pascals (459 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR 60.503(d). [40 CFR 60.502(h)]	Other: Monitored by a pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with + or - 2.5 mm of water precision, shall be calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline tank truck. Initial monitoring shall occur continuously during gasoline truck loading. [40 CFR 60.503(d)].	Gauge Pressure in the Delivery Tank: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. During the performance test, the pressure shall be recorded every 5 minutes in a logbook while a gasoline truck is being loaded. In addition, the highest instantaneous pressure that occurs during each loading shall also be recorded. Every loading position must be tested at least once during the performance test. [40 CFR 60.503(d)(2)]	If pressure limit is exceeded, the permittee shall repair equipment and maintain on site records of corrective actions and preventive measures. Repair equipment: Upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]
29	Pressure-vacuum vents in the bulk gasoline terminal's vapor collection system shall begin to open if System Pressure $\geq$ 4,500 pascals. [40 CFR 60.502(i)]	System Pressure: Monitored by pressure indicator during the entire loading cycle, based on an instantaneous determination. The permittee shall calibrate pressure gauges in accordance with manufacturer's specifications and instructions. [N.J.A.C. 7:27-22.16(o)]	System Pressure: Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The permittee shall maintain on site for a minimum period of 5 years, all calibration records and copies of manufacturer's specifications and instructions. [N.J.A.C. 7:27-22.16(o)]	Repair equipment: Upon occurrence of event, If pressure limit is exceeded. The permittee shall maintain on site records of corrective actions and preventive measures. [N.J.A.C. 7:27-22.16(o)]
30	The permittee shall inspect the vapor collection system, the vapor processing system, and loading rack handling gasoline for total organic compounds liquid or vapor leaks during the loading of gasoline tank trucks. [40 CFR 60.502(j)]	Monitored by periodic leak detection monitoring each month during operation, based on an instantaneous determination. Detection methods incorporating sight, sound, or smell are acceptable. [40 CFR 60.502(j)]	Recordkeeping by manual logging of parameter each month during operation. The owner or operator shall record the results of each leak detection inspection and include in the record all information specified at 40 CFR Part 60.505(c). Records shall be kept on file at the terminal for at least 2 years. [40 CFR 60.505(c)]	Repair equipment: Within 15 calendar days from detection. The owner or operator shall repair the source of any detected leak. [40 CFR 60.502(j)]
31	Permittee shall keep records of all replacements or additions of components performed on an existing vapor processing system for 5 years. [40 CFR 60.505(f)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event on-site for 5 years. [40 CFR 60.505(f)]	None.
32	The owner or operator shall comply with the provisions of 40 CFR Part 60.502 (NSPS Subpart XX), modified as specified at 40 CFR Part 63.422(c). [40 CFR 63.422(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	Total Organic Compounds <= 10 mg/liter of gasoline loaded. [40 CFR 63.422(b)]	Total Organic Compounds: Monitored by continuous emission monitoring system continuously based on a 6-hour rolling average based on 60-minute blocks of continuous/non-continuous operation. The 6 hour rolling average based on 60 minute blocks captured during periods of loading. The CEMS shall be installed and operated in the exhaust air stream. [40 CFR 63.427(a)(1)]	Total Organic Compounds: Recordkeeping by strip chart, round chart or data acquisition (DAS) system / electronic data storage continuously. Records shall include all information specified at 40 CFR Part 63.428(c)(1). Records shall be maintained for at least 5 years. [40 CFR 63.428(c)(1)]	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 calendar quarter (the calendar quarters 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)]
34	The owner or operator shall inspect all equipment in gasoline service for leaks. [40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring each month during operation, based on an instantaneous determination. Acceptable inspection methods include sight, sound, and smell. [40 CFR 63.424(a)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The owner shall maintain a log, signed by the owner or operator at the completion of each inspection, which contains all information specified at 40 CFR Part 428(e)(1) through (7), and each detection of a leak. [40 CFR 63.424(b)]	If a leak is detected during inspection, the owner or operator shall Repair equipment: Within 15 calendar days from detection. [40 CFR 63.424(c)]
35	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. The owner or operator shall take measures to reduce vapor releases as specified at 40 CFR Part 63.424(g)(1) through (4) as follows: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. [40 CFR 63.424(g)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	For each performance test conducted under 40 CFR 63.425(a), the owner or operator shall determine a monitored operating parameter value for the vapor processing system using the following procedure: (1) During the performance test, continuously record the operating parameter under 40 CFR 63.427(a); (2) Determine an operating parameter value based on the parameter data monitored during the performance test, supplemented by engineering assessments and the manufacturer's recommendations; and (3) Provide for the Administrator's approval the rationale for the selected operating parameter value, and monitoring frequency and averaging time, including data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the emission standard in 40 CFR 63.422(b) or 40 CFR 60.112b(a)(3)(ii). [40 CFR 63.425(b)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event during a Performance test. [40 CFR 63.428(c)(2)(i)]	Submit a report: As per the approved schedule. Submit all data and calculations, engineering assessments and manufacturer's recommendations used in determining the operating parameter value under 40 CFR 63.425(b) with the notification of compliance required under 40 CFR 63.9(h). [40 CFR 63.428(c)(2)(i)]
37	For each performance test performed after the initial test, the owner or operator shall document the reasons for any change in the operating parameter value since the previous performance test. [40 CFR 63.425(c)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Document the reasons for any change in the operating parameter value since the previous performance test. [40 CFR 63.425(c)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	The owner or operator shall conduct nitrogen pressure decay field testing for those cargo tanks with manifolded product lines at the facility pursuant to 40 CFR 60.502(e)(5) using procedures outlined in monitoring requirements. [40 CFR 63.425(g)]	Other: Nitrogen pressure decay field test. For those cargo tanks with manifolded product lines, this test procedure shall be conducted on each compartment.[40 CFR 63.425(g)].	Other: Each owner or operator of a bulk gasoline terminal subject to the provisions of this subpart shall keep records of the test results for each gasoline cargo tank loading at the facility as follows: (1) Continuous performance testing performed at any time at that facility under 40 CFR 63.425(g). (2) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: (a) Name of test: Nitrogen Pressure Decay Field Test (40 CFR 63.425(g)) (b) (1) Cargo tank owner's name and address. (2) Cargo tank identification number. (3) Test location and date. (4) Tester name and signature. (5) Witnessing inspector, if any: Name, signature, and affiliation. (6) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing. (7) Test results: Pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument and leak definition.[40 CFR 63.428(g)].	None.
39	The continuous performance pressure decay test shall be performed using Method 27, appendix A, 40 CFR Part 60. This method 27 is applicable for the determination of vapor tightness of a gasoline delivery tank which is equipped with vapor collection equipment. [40 CFR 63.425(h)]	Other: Conduct only the positive pressure test using a time period (t) of 5 minutes. The initial pressure (Pi) shall be 460 mm H <sub>2</sub> O (18 in. H <sub>2</sub> O), gauge. The maximum allowable 5-minute pressure change (Dp) shall be met at any time as shown in the third column of Table 2 of 40 CFR 63.425(e)(1).[40 CFR 63.425(h)].	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [40 CFR 63.425(h)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	The Permittee shall install, calibrate, certify, operate, and maintain, according to the manufacturer's specifications, a continuous monitoring system (CMS) as specified in paragraph (a)(3). [40 CFR 63.427(a)]	Other: A continuous parameter monitoring system (CPMS) capable of measuring temperature shall be installed in the fire box or in the duct work immediately downstream from the fire box in a position before any substantial heat exchange occurs.[40 CFR 63.427(a)(3)].	Other: Record the operating parameter data (temperature) only during gasoline loading or shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred. The date and time of day shall also be indicated at reasonable intervals on this record. Records shall be maintained for at least 5 years in a log book or in a DAS.[40 CFR 63.428(c)(1)].	None.
41	Permittee shall operate the Vapor Recovery Units in a manner not to exceed the limit established using the procedures in 40 CFR 63.425(b). Operation of the Vapor Recovery Units in a manner exceeding the operating parameter value shall constitute a violation of the emission standard in 40 CFR 63.422(b). [40 CFR 63.427(b)]	Monitored by continuous emission monitoring system continuously based on a 6-hour rolling average based on 60-minute blocks of continuous/non-continuous operation.The 6 hour rolling average based on 60 minute blocks captured during periods of loading. [40 CFR 63.427(a)(1)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.427(b)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	Permittee shall keep records of the test results for each gasoline tank truck loading at the facility. [40 CFR 63.428(b)]	None.	Other: (1) Annual certification testing performed under 40 CFR 63.425(e); and 428(b)(2). (2) Continuous performance testing performed at any time at that facility under 40 CFR 63.425(f), (g), and (h). (3) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: (i) Name of test: Annual Certification Test- Method 27 (40 CFR63.425(e)(1)), Annual Certification Test-Internal Vapor Valve (40 CFR63.425(e)(2)), Leak Detection Test (40 CFR63.425(f)), or Continuous Performance Pressure Decay Test (40 CFR63.425(h)). (ii) Cargo tank owner's name and address. (iii) Cargo tank identification number. (iv) Test location and date. (v) Tester name and signature. (vi) Witnessing inspector, if any: Name, signature, and affiliation. (vii) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing. (viii) Test results: Pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument and leak definition. [40 CFR 63.428(b)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	Permittee shall record certain information for each leak. (See Recordkeeping). [40 CFR 63.428(e)]	None.	Other: Record the following information in the log book for each leak that is detected: (1) The equipment type and identification number; (2) The nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell); (3) The date the leak was detected and the date of each attempt to repair the leak; (4) Repair methods applied in each attempt to repair the leak; (5) "Repair delayed" and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; (6) The expected date of successful repair of the leak if the leak is not repaired within 15 days; and (7) The date of successful repair of the leak. When an event occurs. [40 CFR 63.428(e)].	Submit a report: As per the approved schedule , if not repaired within 15 days from detection of leak(s) . [40 CFR 63.428(e)]
44	The owner or operator shall report to the Administrator a description of the types, identification numbers, and locations of all equipment in gasoline service.[40 CFR 63.428(f)]	None.	None.	Submit a report: Once initially. [40 CFR 63.428(f)]
45	Permittee shall include in the semiannual reports to the Administrator each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR 63.428(g)(1)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. [40 CFR 63.428(g)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	Permittee shall report the excess emissions to the Administrator and to the NJDEP Central Regional Office in accordance with 40 CFR 63.10(e)(3). [40 CFR 63.428(h)]	Other: The following occurrences are excess emissions events, and the following information shall be included in the excess emissions report, as applicable: (1) Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under 40 CFR 63.425(b). The report shall include the monitoring data for the days on which exceedance or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing systems or the CMS. (2) Each instance of a nonvapor-tight gasoline tank truck loading at the facility in which the owner or operator failed to take steps to assure that such tank truck would not be reloaded at the facility before vapor tightness documentation for that truck was obtained. (3) Each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with 40 CFR 63.422(c)(2)[40 CFR 63.428(h)].	Other: Keep Records of excess emissions When an event occurs.[40 CFR 63.428(h)].	Submit a report: Upon occurrence of event. [40 CFR 63.428(h)]

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

**Emission Unit:** U24 Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX

**Operating Scenario:** OS2 Distillate Product Loading

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 10,000 other units , barrels per day, from BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bill of lading for each delivery vessel loaded.[N.J.A.C. 7:27-22.16(e)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system daily during operation. [N.J.A.C. 7:27-22.16(e)]	None.
2	The product transfered shall be limited to diesel. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by invoices/bills of Lading.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by invoices / bills of lading.[N.J.A.C. 7:27-22.16(o)].	None.
3	All emissions from loading of non-applicable VOCs into trucks must be directed to the carbon adsorption unit, CD2401. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Throughput <= 153.3 MMgal/yr of distillates. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by delivery tickets or bills of lading.[N.J.A.C. 7:27-22.16(o)].	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and summed year-to-date for one calendar year during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput <= 140,800 gal/hr of distillates per bay. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by delivery tickets or bills of lading[N.J.A.C. 7:27-22.16(o)].	Other: Keep records in the form of delivery tickets or bills of lading per delivery which will contain quantities loaded as well as loading times.[N.J.A.C. 7:27-22.16(o)].	None.
6	VOC (Total) <= 1.18 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Sulfur Content in Fuel <= 500 Parts per Million. (effective July 1, 2014 through June 30, 2016) for Zone 4 (Middlesex County). [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- 8.13(d)]	None.
8	Sulfur Content in Fuel <= 15 Parts per Million. (effective July 1, 2016) for Zone 4 (Middlesex County). [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- 8.13(d)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	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**

**Emission Unit:** U24 Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX

**Operating Scenario:** OS3 Light Product Loading (back up VCU)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 11.75 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.66 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0.66 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 7.8 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 9.1 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2 <= 0.95 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	All air contaminants from the Light Products Loading Rack (E2402) in this operating scenario shall be directed to the portable VCU (CD1798) when transferring any substance into a gasoline-vapor laden delivery vehicle from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Truck loading limited to any petroleum hydrocarbon liquid (treated as gasoline) that is not a HAP as defined at 40 CFR 63.1(a)(2). [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by invoices / bills of lading upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Material Transferred <= 140,800 gal/hr per bay from BOP120002. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by bill of lading for each delivery vessel loaded.[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 daily Total Material Transferred: Recordkeeping by manual or electronic logging of parameter per day during operation. [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	Transfer of gasoline or applicable VOCs into a receiving vessel greater than 2,000 gallons shall be made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] & [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.
11	The permittee shall not conduct the transfer of gasoline or applicable VOCs to tank trucks which are under a pressure in excess of 18 inches of water, or from tank trucks under a vacuum in excess of 6 inches of water. [N.J.A.C. 7:27-16.3(k)] & [N.J.A.C. 7:27-16.4(j)]	Other: Vapor control system shall be operated with a pressure/vacuum vent (P/V Vent) set to relieve at maximum 18 inches water pressure and maximum 6 inches water vacuum. Delivery vessel operator shall shut down pumping operation when the pressure/vacuum limits are exceeded. [N.J.A.C. 7:27-22.16(o)].	None.	None.
12	The permittee shall not transfer any gasoline or applicable VOCs 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 or less from the location of the leak. [N.J.A.C. 7:27-16.3(o)1i] & [N.J.A.C. 7:27-16.4(k)1i]	Other: Visual determination of any leaks from a delivery vessel shall be conducted during each loading cycle. If any visible leaks (fumes) are detected, the owner or operator shall immediately verify compliance with a portable instrument. If non-compliance is detected, the transfer operation shall cease immediately. [N.J.A.C. 7:27-16.3(o)1i] & [N.J.A.C. 7:27-16.4(k)1i].	Other: Recordkeeping by manual or electronic logging of parameter upon occurrence of event. Manually or electronically (computer, DAS or electronic operating system) log each instance of a leak. [N.J.A.C. 7:27-16.3(t)3] & [N.J.A.C. 7:27-16.4(o)3].	None.
13	The permittee shall not transfer gasoline or applicable VOCs 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(o)1ii] & [N.J.A.C. 7:27-16.4(k)1ii]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination during loading and unloading. [N.J.A.C. 7:27-22.16(o)]	Other: Recordkeeping by manual or electronic logging of parameter upon occurrence of event. The permittee shall electronically or manually record each instance of detection of a liquid leak in the delivery vessel in a form readily available for inspection. [N.J.A.C. 7:27-16.3(t)3] & [N.J.A.C. 7:27-16.4(o)3].	None.
14	The permittee shall not transfer gasoline or applicable VOCs if any component of the delivery vessel designed for preventing the release of gasoline or applicable VOC vapors is not installed and operating as designed. [N.J.A.C. 7:27-16.3(o)2] & [N.J.A.C. 7:27-16.4(k)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	No person shall cause, suffer, allow, or permit the transport or transfer of gasoline or applicable VOCs in a delivery vessel having a maximum capacity of 2,000 gallons or greater unless such vessel is vapor-tight at all times while containing any VOC except during periods of sample collection, emergency conditions, gauging, or venting through a vapor control system approved by the Department. [N.J.A.C. 7:27-16.3(l)] & [N.J.A.C. 7:27-16.4(l)]	None.	None.	None.
16	On a daily basis, the permittee shall maintain records of gasoline or applicable VOC loading operations except for marine vessel loading. [N.J.A.C. 7:27-16.3(t)1] & [N.J.A.C. 7:27-16.4(o)1]	Other: Monitored by bill of lading for each delivery vessel loaded.[N.J.A.C. 7:27-22.16(o)].	Other: Manually or electronically record the name and total quantity of each applicable VOC, in gallons or liters, loaded daily into delivery vessels at the facility in a logbook or electronic data storage. [N.J.A.C. 7:27-16.3(t)1] & [N.J.A.C. 7:27-16.4(o)1].	None.
17	See GR3 and GR4 for applicable requirements from NSPS Subpart A, General Provisions and MACT Subpart A, General Provisions, respectively. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	The facility shall be equipped with a Vapor Collection system designed to collect the total organic compounds vapors displaced from tanks during transfer of gasoline. [40 CFR 60.502(a)]	None.	None.	None.
19	The Vapor Control System shall be designed to prevent any total organic compounds vapors collected at one loading rack from passing to another loading rack . [40 CFR 60.502(d)]	None.	None.	None.
20	Loading of liquid product into gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks. [40 CFR 60.502(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Permittee shall record the gasoline tank truck identification number as each tank is loaded. [40 CFR 60.502(e)(2)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event or manually log tank identification number as each gasoline truck is loaded at the affected facility. [40 CFR 60.505(e)(2)]	None.
22	Permittee shall cross-check each tank identification number obtained pursuant to 40 CFR Part 60.502(e) with the file of vapor tightness documentation within two (2) weeks after the corresponding tank is loaded. [40 CFR 60.502(e)(3)]	None.	None.	None.
23	Permittee shall notify the owner or operator of each non-vapor tight gasoline tank truck loaded at the facility within 1 week after the documentation cross-check in paragraph 40 CFR 502 (e)(3) of this section. [40 CFR 60.502(e)(4)]	None.	Recordkeeping by manual logging of parameter upon request of the Department. Permittee shall keep documentation of each notification on file at the terminal for at least 2 years. [40 CFR 60.505(d)]	None.
24	The terminal owner or operator shall take steps assuring that the nonvapor-tight gasoline cargo tank will not be reloaded at the facility until vapor tightness documentation for that gasoline cargo tank is obtained which documents that: (i) The tank truck or railcar gasoline cargo tank meets the test requirements in 40 CFR 63.425(e), or the railcar gasoline cargo tank meets applicable test requirements in 40 CFR 63.425(i); (ii) For each gasoline cargo tank failing the test in 40 CFR 63.425 (f) or (g) at the facility, the cargo tank either: (A) Before repair work is performed on the cargo tank, meets the test requirements in 40 CFR 63.425 (g) or (h), or (B) After repair work is performed on the cargo tank before or during the tests in 40 CFR 63.425 (g) or (h), subsequently passes the annual certification test described in 40 CFR 63.425(e). [63.422(c)(2)} and [40 CFR 60.502(e)(5)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Permittee shall comply with all procedures specified in the affected facility's gasoline tank truck loading procedures approved by the Administrator. [40 CFR 60.502(e)(6)]	None.	None.	None.
26	Permittee shall act to assure that loadings of gasoline tank trucks at the affected facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system. [40 CFR 60.502(f)]	None.	None.	None.
27	Permittee shall assure that the terminal's and the tank truck's Vapor Recovery systems are connected during each loading of a gasoline tank truck. This includes training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks. [40 CFR 60.502(f)] and. [40 CFR 60.502(g)]	Monitored by visual determination per delivery, based on no averaging period. [40 CFR 60.502(g)]	None.	None.
28	Gauge Pressure in the Delivery Tank $\leq$ 4,500 pascals. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4,500 pascals (459 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR 60.503(d). [40 CFR 60.502(h)]	Other: Monitored by a pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with + or - 2.5 mm of water precision, shall be calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline tank truck. Initial monitoring shall occur continuously during gasoline truck loading. [40 CFR 60.503(d)].	Gauge Pressure in the Delivery Tank: Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. During the performance test, the pressure shall be recorded every 5 minutes in a logbook while a gasoline truck is being loaded. In addition, the highest instantaneous pressure that occurs during each loading shall also be recorded. Every loading position must be tested at least once during the performance test. [40 CFR 60.503(d)(2)]	If pressure limit is exceeded, the permittee shall repair equipment and maintain on site records of corrective actions and preventive measures. Repair equipment: Upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]
29	Pressure-vacuum vents in the bulk gasoline terminal's vapor collection system shall begin to open if System Pressure $\geq$ 4,500 pascals. [40 CFR 60.502(i)]	System Pressure: Monitored by pressure indicator during the entire loading cycle, based on an instantaneous determination. The permittee shall calibrate pressure gauges in accordance with manufacturer's specifications and instructions. [N.J.A.C. 7:27-22.16(o)]	System Pressure: Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The permittee shall maintain on site for a minimum period of 5 years, all calibration records and copies of manufacturer's specifications and instructions. [N.J.A.C. 7:27-22.16(o)]	Repair equipment: Upon occurrence of event , If pressure limit is exceeded. The permittee shall maintain on site records of corrective actions and preventive measures. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	The permittee shall inspect the vapor collection system, the vapor processing system, and loading rack handling gasoline for total organic compounds liquid or vapor leaks during the loading of gasoline tank trucks.[40 CFR 60.502(j)]	Monitored by periodic leak detection monitoring each month during operation, based on an instantaneous determination. Detection methods incorporating sight, sound, or smell are acceptable. [40 CFR 60.502(j)]	Recordkeeping by manual logging of parameter each month during operation. The owner or operator shall record the results of each leak detection inspection and include in the record all information specified at 40 CFR Part 60.505(c). Records shall be kept on file at the terminal for at least 2 years. [40 CFR 60.505(c)]	Repair equipment: Within 15 calendar days from detection. The owner or operator shall repair the source of any detected leak. [40 CFR 60.502(j)]
31	Permittee shall keep records of all replacements or additions of components performed on an existing vapor processing system for 5 years. [40 CFR 60.505(f)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event on-site for 5 years. [40 CFR 60.505(f)]	None.
32	The owner or operator shall comply with the provisions of 40 CFR Part 60.502 (NSPS Subpart XX), modified as specified at 40 CFR Part 63.422(c).[40 CFR 63.422(a)]	None.	None.	None.
33	Total Organic Compounds <= 10 mg/liter of gasoline loaded. [40 CFR 63.422(b)]	Other: A continuous parameter monitoring system (CPMS) capable of measuring temperature shall be installed in the fire box or in the duct work immediately downstream from the fire box in a position before any substantial heat exchange occurs.[40 CFR 63.427(a)(3)].	Other: Record the operating parameter data (temperature) only during gasoline loading or shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred. The date and time of day shall also be indicated at reasonable intervals on this record. Records shall be maintained for at least 5 years in a log book or in a DAS.[40 CFR 63.428(c)(1)].	None.
34	The owner or operator shall inspect all equipment in gasoline service for leaks.[40 CFR 63.424(a)]	Monitored by periodic leak detection monitoring each month during operation, based on an instantaneous determination. Acceptable inspection methods include sight, sound, and smell. [40 CFR 63.424(a)]	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. The owner shall maintain a log, signed by the owner or operator at the completion of each inspection, which contains all information specified at 40 CFR Part 428(e)(1) through (7), and each detection of a leak. [40 CFR 63.424(b)]	If a leak is detected during inspection, the owner or operator shall Repair equipment: Within 15 calendar days from detection. [40 CFR 63.424(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	The owner or operator shall not allow gasoline to be handled in a manner which would result in vapor releases to the atmosphere for extended periods of time. The owner or operator shall take measures to reduce vapor releases as specified at 40 CFR Part 63.424(g)(1) through (4) as follows: (1) Minimize gasoline spills; (2) Clean up spills as expeditiously as practicable; (3) Cover all open gasoline containers with a gasketed seal when not in use; (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators. [40 CFR 63.424(g)]	None.	None.	None.
36	The owner or operator shall conduct performance tests of the vapor processing system(s) according to the test methods and procedures in 40 CFR Part 60.503(b), except a reading of 500 ppm shall be used to determine level of leaks to be repaired. [40 CFR 63.425(a)]	None.	Recordkeeping by other recordkeeping method (provide description) upon occurrence of event. The permittee shall maintain on site for a minimum period of 5 years, a copy of the stack test report. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	For each performance test conducted under 40 CFR 63.425(a), the owner or operator shall determine a monitored operating parameter value for the vapor processing system using the following procedure: (1) During the performance test, continuously record the operating parameter under 40 CFR 63.427(a); (2) Determine an operating parameter value based on the parameter data monitored during the performance test, supplemented by engineering assessments and the manufacturer's recommendations; and (3) Provide for the Administrator's approval the rationale for the selected operating parameter value, and monitoring frequency and averaging time, including data and calculations used to develop the value and a description of why the value, monitoring frequency, and averaging time demonstrate continuous compliance with the emission standard in 40 CFR 63.422(b) or 40 CFR 60.112b(a)(3)(ii). [40 CFR 63.425(b)]	None.	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event during a Performance test. [40 CFR 63.428(c)(2)(i)]	Submit a report: As per the approved schedule. Submit all data and calculations, engineering assessments and manufacturer's recommendations used in determining the operating parameter value under 40 CFR 63.425(b) with the notification of compliance required under 40 CFR 63.9(h). [40 CFR 63.428(c)(2)(i)]
38	The owner or operator shall assure that an annual certification testing of each gasoline cargo tank loading at the facility is conducted. [40 CFR 63.425(e)]	Other: Provide assurance that tests shall be performed using the procedures at 40 CFR Part 63.425(e)(1) and (2).[40 CFR 63.425(e)].	Other: Records shall include all information specified at 40 CFR Part 63.428(b)(3).[40 CFR 63.428(b)(1)].	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	The owner or operator shall conduct nitrogen pressure decay field testing for those cargo tanks with manifolded product lines at the facility pursuant to 40 CFR 60.502(e)(5) using procedures outlined in monitoring requirements. [40 CFR 63.425(g)]	Other: Nitrogen pressure decay field test. For those cargo tanks with manifolded product lines, this test procedure shall be conducted on each compartment.[40 CFR 63.425(g)].	Other: Each owner or operator of a bulk gasoline terminal subject to the provisions of this subpart shall keep records of the test results for each gasoline cargo tank loading at the facility as follows: (1) Continuous performance testing performed at any time at that facility under 40 CFR 63.425(g). (2) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: (a) Name of test: Nitrogen Pressure Decay Field Test (40 CFR 63.425(g)) (b) (1) Cargo tank owner's name and address. (2) Cargo tank identification number. (3) Test location and date. (4) Tester name and signature. (5) Witnessing inspector, if any: Name, signature, and affiliation. (6) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing. (7) Test results: Pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument and leak definition.[40 CFR 63.428(g)].	None.
40	The continuous performance pressure decay test shall be performed using Method 27, appendix A, 40 CFR Part 60. This method 27 is applicable for the determination of vapor tightness of a gasoline delivery tank which is equipped with vapor collection equipment. [40 CFR 63.425(h)]	Other: Conduct only the positive pressure test using a time period (t) of 5 minutes. The initial pressure (Pi) shall be 460 mm H <sub>2</sub> O (18 in. H <sub>2</sub> O), gauge. The maximum allowable 5-minute pressure change (Dp) shall be met at any time as shown in the third column of Table 2 of 40 CFR 63.425(e)(1).[40 CFR 63.425(h)].	Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. [40 CFR 63.425(h)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	The Permittee shall install, calibrate, certify, operate, and maintain, according to the manufacturer's specifications, a continuous monitoring system (CMS) as specified in paragraph (a)(3). [40 CFR 63.427(a)]	Other: A continuous parameter monitoring system (CPMS) capable of measuring temperature shall be installed in the fire box or in the duct work immediately downstream from the fire box in a position before any substantial heat exchange occurs.[40 CFR 63.427(a)(3)].	Other: Record the operating parameter data (temperature) only during gasoline loading or shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred. The date and time of day shall also be indicated at reasonable intervals on this record. Records shall be maintained for at least 5 years in a log book or in a DAS.[40 CFR 63.428(c)(1)].	None.
42	Permittee shall operate the Vapor Recovery Units in a manner not to exceed the limit established using the procedures in 40 CFR 63.425(b). Operation of the Vapor Recovery Units in a manner exceeding the operating parameter value shall constitute a violation of the emission standard in 40 CFR 63.422(b). [40 CFR 63.427(b)]	Monitored by parametric monitoring system continuously, based on an instantaneous determination for the temperature of the VCU. [40 CFR 63.427(b)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.427(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	Permittee shall keep records of the test results for each gasoline tank truck loading at the facility. [40 CFR 63.428(b)]	None.	Other: (1) Annual certification testing performed under 40 CFR 63.425(e); and 428(b)(2). (2) Continuous performance testing performed at any time at that facility under 40 CFR 63.425(f), (g), and (h). (3) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: (i) Name of test: Annual Certification Test- Method 27 (40 CFR63.425(e)(1)), Annual Certification Test-Internal Vapor Valve (40 CFR63.425(e)(2)), Leak Detection Test (40 CFR63.425(f)), or Continuous Performance Pressure Decay Test (40 CFR63.425(h)). (ii) Cargo tank owner's name and address. (iii) Cargo tank identification number. (iv) Test location and date. (v) Tester name and signature. (vi) Witnessing inspector, if any: Name, signature, and affiliation. (vii) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing. (viii) Test results: Pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument and leak definition. [40 CFR 63.428(b)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	Permittee shall record certain information for each leak. (See Recordkeeping). [40 CFR 63.428(e)]	None.	Other: Record the following information in the log book for each leak that is detected: (1) The equipment type and identification number; (2) The nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell); (3) The date the leak was detected and the date of each attempt to repair the leak; (4) Repair methods applied in each attempt to repair the leak; (5) "Repair delayed" and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; (6) The expected date of successful repair of the leak if the leak is not repaired within 15 days; and (7) The date of successful repair of the leak. When an event occurs. [40 CFR 63.428(e)].	Submit a report: As per the approved schedule , if not repaired within 15 days from detection of leak(s) . [40 CFR 63.428(e)]
45	The owner or operator shall report to the Administrator a description of the types, identification numbers, and locations of all equipment in gasoline service.[40 CFR 63.428(f)]	None.	None.	Submit a report: Once initially. [40 CFR 63.428(f)]
46	Permittee shall include in the semiannual reports to the Administrator each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR 63.428(g)(1)]	None.	None.	Submit a report: Semi-annually on January 31 and July 31 of each year. [40 CFR 63.428(g)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
47	Permittee shall report the excess emissions to the Administrator and to the NJDEP Central Regional Office in accordance with 40 CFR 63.10(e)(3). [40 CFR 63.428(h)]	Other: The following occurrences are excess emissions events, and the following information shall be included in the excess emissions report, as applicable: (1) Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under 40 CFR 63.425(b). The report shall include the monitoring data for the days on which exceedance or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing systems or the CMS. (2) Each instance of a nonvapor-tight gasoline tank truck loading at the facility in which the owner or operator failed to take steps to assure that such tank truck would not be reloaded at the facility before vapor tightness documentation for that truck was obtained. (3) Each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with 40 CFR 63.422(c)(2)[40 CFR 63.428(h)].	Other: Keep Records of excess emissions When an event occurs.[40 CFR 63.428(h)].	Submit a report: Upon occurrence of event. [40 CFR 63.428(h)]
48	Hours of Operation <= 100 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [N.J.A.C. 7:27-22.16(o)]	None.

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**Emission Unit:** U24 Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX

**Operating Scenario:** OS4 Distillate Product Loading (back up VCU)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The product transferred shall be limited to diesel. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by invoices/bills of Lading.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by invoices / bills of lading.[N.J.A.C. 7:27-22.16(o)].	None.
2	All emissions from loading of non-applicable VOCs into trucks must be directed to the portable VCU, CD1798. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Throughput <= 140,800 gal/hr of distillates per bay. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by delivery tickets or bills of lading[N.J.A.C. 7:27-22.16(o)].	Other: Keep records in the form of delivery tickets or bills of lading per delivery which will contain quantities loaded as well as loading times.[N.J.A.C. 7:27-22.16(o)].	None.
4	VOC (Total) <= 2 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.66 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.66 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 7.8 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 9.1 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	SO2 <= 0.95 lb/hr. Maximum emission rate from BOP120002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Sulfur Content in Fuel <= 500 Parts per Million. (effective July 1, 2014 through June 30, 2016) for Zone 4 (Middlesex County). [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.
11	Sulfur Content in Fuel <= 15 Parts per Million. (effective July 1, 2016) for Zone 4 (Middlesex County). [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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	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.
13	Hours of Operation <= 100 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [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. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: U25 Group II B - I Storage Tanks &lt; 1.0 psia

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Stationary storage tanks storing applicable VOC and having a capacity of greater than 2,000 gallons shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1i]	None.	None.	None.
2	VOC storage tanks V-723 (E2511), 775 (E2515) and 776 (E2516) do not require a control apparatus as specified in Table 2A. [N.J.A.C. 7:27-16.2(b)2]	None.	None.	None.
3	For Range II or III storage tanks equipped with gauging and/or sampling systems shall be vapor tight. Exempt from this requirement when gauging or sampling is taking place, and when the condition at [N.J.A.C. 7:27-16.2(o)1] is met during refilling. [N.J.A.C. 7:27-16.2(d)] & [N.J.A.C. 7:27-16.2(f)9]	None.	None.	None.
4	Maintain records for each storage tank specifying each VOC stored and the vapor pressure of each VOC at standards conditons. [N.J.A.C. 7:27-16.2(s)1]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material Recordkeeping by manual or electronic logging of parameter per change of material. Log the tank contents, vapor pressure, and date the tank contents (material) was replaced or material was added to the tank. [N.J.A.C. 7:27-16.2(s)1] & [N.J.A.C. 7:27-22.16(o)]	None.
5	The permittee shall ensure the roof float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. [N.J.A.C. 7:27-16.2(m)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	No person shall cause, suffer, allow, or permit the storage of any VOC in any stationary storage tank equipped with an external floating roof unless all openings in such roof, excluding emergency roof drains, are covered when not in active use. The tank shall be exempt from this paragraph if the tank meets the exemption criteria at N.J.A.C. 7:27-16.2 (f)7 above. [N.J.A.C. 7:27-16.2(l)11]	None.	None.	None.
7	No person shall cause, suffer, allow, or permit the transfer of gasoline from a delivery vessel into these storage tanks unless: 1. The tank is equipped and operating with one of the following emission controls: i. A vapor control system that: (1) Reduces the total applicable VOC emissions into the outdoor atmosphere by no less than 98 percent the concentration of applicable VOC by volume in the air-vapor mixture displaced during the transfer of gasoline; and (2) Includes a pressure/vacuum relief valve on each atmospheric vent which remains closed during gasoline transfer; or ii. A floating roof; and 2. The storage tank meets the requirements of N.J.A.C. 7:27-16.2. [N.J.A.C. 7:27-16.3(d)]	None.	None.	None.
8	No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into these storage tanks unless such transfer is made through a submerged fill pipe. [N.J.A.C. 7:27-16.3(c)] & [N.J.A.C. 7:27-16.4(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>No person shall cause, suffer, allow, or permit the transfer of any applicable VOC from a delivery vessel into these storage tanks unless the tank is equipped with one of the following control apparatus:</p> <ol style="list-style-type: none"> <li>1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC;</li> <li>2. A floating roof; or</li> <li>3. A vapor balance system with: <ol style="list-style-type: none"> <li>i. All atmospheric vents positively closed during transfer;</li> <li>ii. A conservation vent adjusted to remain closed during transfer; or</li> <li>iii. A hole of 1/4 inch or less in diameter in the cap on the atmospheric vent.</li> </ol> </li> </ol> <p>[N.J.A.C. 7:27-16.4(c)]</p>	None.	None.	None.
10	<p>No person shall cause, suffer, allow, or permit the transfer of any applicable VOC into a delivery vessel, except railroad tank cars, from these storage tanks unless the tank is equipped with a floating roof or unless such delivery vessel is connected to one of the following control apparatus:</p> <ol style="list-style-type: none"> <li>1. A vapor control apparatus which reduces by no less than 90 percent the concentration of applicable VOC in the air-vapor mixture displaced during the transfer of applicable VOC; or</li> <li>2. A vapor balance system with all atmospheric vents positively closed during transfer. Such vapor balance shall not return the vapors to any tank equipped with a floating roof. This requirement shall not apply to this storage tank during the loading of an applicable VOC as cargo into a marine tank vessel. [N.J.A.C. 7:27-16.4(f)]</li> </ol>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The following records shall be maintained: 1. On a daily basis, record the name and total quantity of each applicable VOC, in gallons, loaded into delivery vessels (except marine tank vessels) at the facility; 2. Upon request of the Department and at a frequency specified by the Department, record any other operating parameter relevant to the prevention or control of the emission of air contaminants from the facility. [N.J.A.C. 7:27-16.3(t)] & [N.J.A.C. 7:27-16.4(o)]	None.	None.	None.
12	The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA. [N.J.A.C. 7:27-16.22(a)]	None.	Other: The permittee shall maintain the required records for a period of not less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department or EPA. [N.J.A.C. 7:27-16.22(a)].	None.
13	VOC (Total) <= 50.1 tons/yr from BOP120003. Maximum total annual emission limit from preconstruction permits for all tanks, includes emissions from tank storage, tank roof landings, tank cleaning (tank opening - degassing and refilling), and tank field dumping and source fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by calculations annually Emissions from roof landings shall be determined by the methods specified in EPA AP-42. Each roof landing shall be approved in accordance with facility standard operating procedures from BOP070001. [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. Each roof landing shall be recorded in accordance with facility standard operating procedures. The recorded data shall include tank ID, product type, RVP, liquid temperature and dates and times of occurrence and the resultant VOC emissions. Individual tank records shall be recorded in a logbook or electronic data storage systems, from BOP070001. [N.J.A.C. 7:27-22.16(o)]	None.
14	HAPs (Total): Maximum allowable emission rate from the preconstruction permit is below the reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Permittee's annual throughput limit (combined total for all tanks in this process) <= 1,022,400,110 gal/yr from BOP120003. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by tank gauging per occurrence. [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. Annual throughput to be calculated on total quantity of materials transferred out of each tank. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Contents of all of the storage tanks listed in this process are limited to any petroleum hydrocarbon liquid, stormwater, or process water that is not a HAP as defined at 40 CFR 63.1(a)(2), with a vapor pressure less than 1.0 psia at standard conditions. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by lab analysis or assay report once for each type of liquid stored, added or changed out.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system daily Maintain records of the vapor pressure at standard conditions for each type of material stored in the tanks which contain applicable VOCs, and for non-applicable VOCs, list non-applicable VOC vapor pressure <= 0.02 psia. Vapor pressure records can include lab analysis or assay reports. [N.J.A.C. 7:27-22.16(o)]	None.
17	The permittee is limited to opening the tanks for maintenance/cleaning for a total of 17 times in any one year. [N.J.A.C. 7:27-22.16(o)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event of the following: date and time tank maintenance/cleaning began, duration of tank maintenance/cleaning period and brief description of tank maintenance/cleaning performed. [N.J.A.C. 7:27-22.16(o)]	None.

BOP210001

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

**Emission Unit:** U27 Oil Water Separator

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit the use of any oil-water separator unless such separator is covered with a lid while containing VOC. Sections of oil-water separators containing essential powered mechanical devices operating above the liquid level are not subject to this requirement. [N.J.A.C. 7:27-16.6(n)]	None.	None.	None.

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

**Facility Name (AIMS):** Buckeye Perth Amboy Terminal LLC

**Facility ID (AIMS):** 18058

**Street** 380 MAURER RD  
**Address:** PERTH AMBOY, NJ 08861

**Mailing** 380 MAURER RD  
**Address:** PERTH AMBOY, NJ 08861

**County:** Middlesex  
**Location** From Route 440 N. take State Street exit,  
**Description:** follow signs for Sewaren. Buckeye facility is approx. 1/2 mile on left.

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	557,500
<b>Y-Coordinate:</b>	621,000
<b>Units:</b>	Feet
<b>Datum:</b>	NAD83
<b>Source Org.:</b>	DEP-Program
<b>Source Type:</b>	DEP Program Database

<b>Industry:</b>	
<b>Primary SIC:</b>	2911
<b>Secondary SIC:</b>	
<b>NAICS:</b>	493190

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type:** Air Permit Information Contact

**Organization:** Buckeye Partners, L.P.  
**Name:** Frances Lindsley-Matthews  
**Title:** Senior Specialist, Air Compliance  
**Phone:** (732) 535-4258 x  
**Fax:** ( ) - x  
**Other:** ( ) - x  
**Type:**  
**Email:** FLindsley-Matthews@buckeye.com

**Org. Type:** LP  
**NJ EIN:** 00232431965

**Mailing Address:** 380 Maurer Road  
Perth Amboy, NJ 08861

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**Contact Type:** Consultant

**Organization:** Envirospec Engineering, PLLC  
**Name:** Nicole Brower  
**Title:** Senior Engineer  
**Phone:** (518) 209-4154 x  
**Fax:** ( ) - x  
**Other:** ( ) - x  
**Type:**  
**Email:** nbrower@envirospeceng.com

**Org. Type:**  
**NJ EIN:**

**Mailing Address:** 349 Northern Blvd  
Suite 3  
Albany, NY 12204

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**Contact Type:** Emission Statements

**Organization:** Buckeye Partners, LP  
**Name:** Monika Niedbala  
**Title:** HSSE Compliance Specialist  
**Phone:** (732) 692-5220 x  
**Fax:** ( ) - x  
**Other:** ( ) - x  
**Type:**  
**Email:** MNiedbala@Buckeye.com

**Org. Type:** LP  
**NJ EIN:** 00232431965

**Mailing Address:**

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type: Fees/Billing Contact**

**Organization:** Buckeye Pipe Line Company, L.P.

**Org. Type:** LP

**Name:** Frances Lindsley-Matthews

**NJ EIN:** 00232431965

**Title:** Senior Specialist, Air Compliance

**Phone:** (732) 738-2065 x

**Mailing Address:** 380 Maurer Road

**Fax:** ( ) - x

Perth Amboy, NJ 08861

**Other:** ( ) - x

**Type:**

**Email:** FLindsley-Matthews@Buckeye.com

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**Contact Type: Operator**

**Organization:** Buckeye Perth Amboy Terminal LLC

**Org. Type:** LP

**Name:**

**NJ EIN:** 00232431965

**Title:**

**Phone:** ( ) - x

**Mailing Address:** 380 Maurer Road

**Fax:** ( ) - x

Perth Amboy, NJ 08861

**Other:** ( ) - x

**Type:**

**Email:**

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

**Organization:** Buckeye Perth Amboy Terminal LLC

**Org. Type:** LP

**Name:**

**NJ EIN:** 00232431965

**Title:**

**Phone:** ( ) - x

**Mailing Address:** 380 Maurer Road

**Fax:** ( ) - x

Perth Amboy, NJ 08861

**Other:** ( ) - x

**Type:**

**Email:**



**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
**BOP210001**

Date: 9/23/2022

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

**Contact Type:** Responsible Official

**Organization:** Buckeye Perth Amboy Terminal LLC

**Org. Type:** LP

**Name:** Edwin Buchalski

**NJ EIN:** 00232431965

**Title:** Sr Operations Manager

**Phone:** (347) 452-8816 x

**Mailing** 750 Cliff Road

**Fax:** ( ) - x

**Address:** Port Reading, NJ 07064

**Other:** ( ) - x

**Type:**

**Email:** EBuchalski@Buckeye.com

**New Jersey Department of Environmental Protection**  
**Non-Source Fugitive Emissions**

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1											
FG3	Road dust	Throughout facility					7.000	1.400			
FG4	light liquid sources (piping, fittings, rail fugitives) not subject to Refinery MACT	Throughout facility - emissions estimate is already included in FG2	105.290							2.40000000	
Total			105.290	0.000	0.000	0.000	7.000	1.400	0.000	2.40000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO <sub>x</sub>	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS2	Diesel Pumps (fuel burning equipment) < 1 MMbtu/hr	Fuel Combustion Equipment (Other)	Area H Power / Emergency Diesel Equipment	0.040	0.440	0.100	0.030	0.030	0.030	0.000	0.04000000	0.000
IS3	Wharf Loading Arm Receiving Drums (< 2000 gallons)	Other Equipment	Area A Wharf	0.370	0.000	0.000	0.000	0.000	0.000	0.000	0.37000000	0.000
IS4	Tote Bins (< 2000 gallons)	Storage Vessel	Area B Storage Tanks	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	0.000
IS5	Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area C Crude Unit	0.660	0.000	0.000	0.000	0.000	0.000	0.000	0.66000000	0.000
IS6	Storage Tanks (< 2000 gallons)	Storage Vessel	Area C Crude Unit	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.96000000	0.000
IS7	Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area D Asphalt & Air Blowing Plant	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	0.000
IS8	Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	NaSH Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS9	Loading Racks Not Subject to Subchapter 16 Vapor Pressure < 1 mm Hg	Manufacturing and Materials Handling Equipment	Area F Loading Racks	17.150	0.000	0.000	0.000	0.790	0.790	0.000	17.15000000	1.500
IS10	Tote Bins, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area H Power Plant	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO <sub>x</sub>	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS11	Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area H Power Plant	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000
IS12	Boiler Feedwater Deaerator Stripping Section (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)	Other Equipment	Area H Power Plant	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000
IS13	Cooling Tower E-8980 (< 50 lb/hr)	Other Equipment	Area I Cooling Tower	4.400	0.000	0.000	0.000	12.300	12.300	0.000	4.40000000	0.000
IS14	Tote Bins, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area I Cooling Tower	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	0.000
IS15	Storage Tanks (< 2000 gallons)	Storage Vessel	Area I Cooling Tower	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000
IS16	IAF Feed Sump (potential to emit < 0.1 lb/hr of any Group 1 or Group 2 TXS or any combination thereof)	Other Equipment	Area J Effluent Treatment Plant	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000
IS17	Biodisk Units (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)	Other Equipment	Area J Effluent Treatment Plant	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO <sub>x</sub>	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS18	Clarifiers (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)	Other Equipment	Area J Effluent Treatment Plant	0.440	0.000	0.000	0.000	0.000	0.000	0.000	0.44000000	0.000
IS19	PAB Wastewater Treatment Basin (< 100 ppb by weight for TXS or < 3500 ppb by weight for VOC)	Other Equipment	Area J Effluent Treatment Plant	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.22000000	0.000
IS20	Storage Tanks, Vapor Pressure < 1 mm Hg (< 10,000 gallons)	Storage Vessel	Area J Effluent Treatment Plant	0.660	0.000	0.000	0.000	0.000	0.000	0.000	0.66000000	0.000
IS21	Unheated Open-Top Degreaser < 6 square feet	Cleaning Machine (Open Top: Cold)	Shop Building	0.660	0.000	0.000	0.000	0.000	0.000	0.000	0.66000000	0.000
IS23	Rental Diesel Equipment (fuel burning equipment) < 1 MMBtu/hr	Fuel Combustion Equipment (Other)	Area H Power	0.100	1.200	0.260	0.080	0.080	0.080	0.000	0.00000000	0.000
IS24	Biodiesel Tanks (< 0.02 psia)	Storage Vessel		0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.04000000	0.000
IS25	Rail Car Unloading Rack	Other Equipment	Rail Loading Area	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NO <sub>x</sub>	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS50	Contractor - Portable Diesel Equipment (fuel burning equipment) < 1 MMbtu/hr	Stationary Reciprocating Engine	Area H Power	0.890	10.950	2.360	0.720	2.660	2.660	0.000	0.00000000	0.000
Total				29.450	12.590	2.720	0.830	15.860	15.860	0.000	28.46000000	1.500

**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>
E1001	Berth No. 1	Tanker Berth	Other Equipment	NJ00011	1/1/1935	No		
E1002	Berth No. 3	Barge Berth	Other Equipment	NJ00011	1/1/1975	No		
E1003	F-1501	Marine Vapor Control	Fuel Combustion Equipment (Other)	NJ00011	10/1/1994	No		
E1005	Berth No. 2	New Berth No. 2	Other Equipment			No		
E1006	Berth No. 4	New Berth No. 4	Other Equipment			No		
E1101	750	Storage Tank	Storage Vessel	NJ00011	1/1/1936	No		
E1102	751	Storage Tank	Storage Vessel	NJ00011	1/1/1936	No		
E1103	752	Storage Tank	Storage Vessel	NJ00011	1/1/1936	No		
E1104	753	Storage Tank	Storage Vessel	NJ00011	1/1/1947	No		
E1105	754	Storage Tank	Storage Vessel	NJ00011	1/1/1948	No	10/28/1999	
E1201	18	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1202	19	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No	9/28/1998	
E1203	27	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1204	766	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No	8/13/1998	
E1205	767	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No	10/17/2000	
E1206	768	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1207	769	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1208	770	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1209	771	Storage Tank	Storage Vessel	NJ00011	1/1/1951	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>
E1210	772	Storage Tank	Storage Vessel	NJ00011	1/1/1951	No	1/11/2000	
E1211	774	Storage Tank	Storage Vessel	NJ00011	1/1/1953	No		
E1212	777	Storage Tank	Storage Vessel	NJ00011	1/1/1958	No		
E1213	778	Storage Tank	Storage Vessel	NJ00011	1/1/1975	No		
E1313	305	Storage Tank	Storage Vessel	NJ00011	1/1/1957	No		
E1314	306	Storage Tank	Storage Vessel	NJ00011	1/1/1957	No		
E1315	307	Storage Tank	Storage Vessel	NJ00011	1/1/1993	No		
E1333	327	Storage Tank	Storage Vessel	NJ00011	1/1/1927	No		
E1346	003	Storage Tank	Storage Vessel	NJ00011	1/1/1975	No		
E1347	004	Storage Tank	Storage Vessel	NJ00011	1/1/1975	No		
E1348	331	Storage Tank	Storage Vessel	NJ00011	1/1/1929	No		
E1349	332	Storage Tank	Storage Vessel	NJ00011	1/1/1929	No		
E1352	V-8912	Storage Tank	Storage Vessel	NJ00011	1/1/1975	No		
E1402	12	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1403	13	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1404	14	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1405	15	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1406	700	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1407	701	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1408	702	Storage Tank	Storage Vessel	NJ00011	1/1/1950	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>
E1409	703	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1411	721	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1412	722	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1413	731	Storage Tank	Storage Vessel	NJ00011	1/1/1958	No		
E1414	748	Storage Tank	Storage Vessel	NJ00011	1/1/1955	No		
E1416	757	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1417	758	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E1418	16	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1419	22	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1420	23	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E1421	760	Storage Tank	Storage Vessel	NJ00011	1/1/1926	No		
E1422	780	Storage Tank	Storage Vessel	NJ00011	1/1/1975	No		
E1602	F-169P	East Yard Hot Oil Heater	Fuel Combustion Equipment (Other)	NJ00011	1/14/2002	No		
E1603	F-170P	Central Yard Hot Oil Heater	Fuel Combustion Equipment (Other)	NJ00011	1/1/2003	No		
E1701	199	Storage Tank	Storage Vessel			No		
E1702	319	Storage Tank	Storage Vessel			No		
E1703	781	Storage Tank	Storage Vessel			No		
E1704	321	Storage Tank	Storage Vessel			No		
E1705	322	Storage Tank	Storage Vessel			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>
E2001	#3 API SDB	#3 API Separator Diversion Box	Other Equipment	NJ00011	1/1/1977	No		
E2002	#3 API SF	#3 API Separator Forebay	Other Equipment	NJ00011	1/1/1977	No		
E2003	#3 API S	#3 API Separator	Other Equipment	NJ00011	1/1/1977	No		
E2004	K-9200	IAF Units	Other Equipment	NJ00011	1/1/1977	No		
E2005	K-9201	IAF Units	Other Equipment	NJ00011	1/1/1977	No		
E2006	T-9200	Equalization Tank	Other Equipment	NJ00011	1/1/1977	No		
E2007	OWB	Oily Water Bin	Other Equipment	NJ00011	1/1/1977	No		
E2008	OB	Oil Bin	Other Equipment	NJ00011	1/1/1977	No		
E2009	SDB	Stormwater Diversion Box	Other Equipment	NJ00011	1/1/1977	No		
E2010	T-9201	Float Separation Tank	Other Equipment	NJ00011	1/1/1977	No		
E2011	T-9205	Sludge Mixing Tank	Other Equipment	NJ00011	1/1/1977	No		
E2101	1100 kW CDG	1100 kW Cummins Diesel Generator	Emergency Generator	NJ00011	2/27/1995	No		
E2102	250 kW KDG	250 kW Kohler Diesel Generator	Emergency Generator	NJ00011	1/1/1992	No		
E2104	155 kW CDP	155 kW Cummins Diesel Pump	Emergency Generator	NJ00011	12/1/1999	No		
E2105	172 kW CDP	172 kW Cummins Diesel Pump	Emergency Generator	NJ00011	1/1/1999	No		
E2106	Rent AirComp	Rental Emergency Air Compressor	Emergency Generator					
E2107	198 kW CDP	198 kW Clarke Diesel Pump	Emergency Generator			No		
E2201	ADD1	Storage Tank	Storage Vessel			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>
E2202	ADD2	Storage Tank	Storage Vessel			No		
E2203	ADD3	Storage Tank	Storage Vessel			No		
E2204	ADD4	Storage Tank	Storage Vessel			No		
E2205	ADD5	Storage Tank	Storage Vessel			No		
E2206	ADD6	Storage Tank	Storage Vessel			No		
E2207	ADD7	Storage Tank	Storage Vessel			No		
E2402	TruckRack	Truck Loading Rack light liquids& distillates	Manufacturing and Materials Handling Equipment					
E2501	28	Storage Tank	Storage Vessel	NJ00011	1/1/1945	No		
E2508	326	Storage Tank	Storage Vessel	NJ00011	1/1/1927	No		
E2509	328	Storage Tank	Storage Vessel	NJ00011	1/1/1956	No		
E2510	330	Storage Tank	Storage Vessel	NJ00011	1/1/1929	No		
E2511	V-723	Storage Tank	Storage Vessel	NJ00011	1/1/1954	No		
E2514	765	Storage Tank	Storage Vessel	NJ00011	1/1/1926	No		
E2515	775	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E2516	776	Storage Tank	Storage Vessel	NJ00011	1/1/1950	No		
E2517	75D-1	Storage Tank	Storage Vessel	NJ00011	1/1/1957	No		
E2601	11	Storage Tank	Storage Vessel	NJ00011	1/1/1957	No		
E2602	116	Storage Tank	Storage Vessel	NJ00011	1/1/1954	No		
E2604	759	Storage Tank	Storage Vessel	NJ00011	1/1/1961	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>
E2605	773	Storage Tank	Storage Vessel	NJ00011	1/1/1951	No		
E2701	OWS	Oil Water Separator	Storage Vessel			No		
E5001	Mix Tank A	Contractor-Mix Tank A	Other Equipment	N/A				
E5002	OWS A	Contractor-Oil Water Separator A	Other Equipment	N/A				
E5003	Frac Tank A	Contractor-Frac Tank A	Storage Vessel	N/A				
E5004	Frac StorA1	Contractor-Frac Tank Storage Container A1	Storage Vessel	N/A				
E5005	Frac StorA2	Contractor-Frac Tank Storage Container A2	Storage Vessel	N/A				
E5006	Frac StorA3	Contractor-Frac Tank Storage Container A3	Storage Vessel	N/A				
E5007	Decant/CentA	Contractor- Decanter/ Centrifuge A	Other Equipment	N/A				
E5011	Mix Tank B	Contractor-Mix Tank B	Other Equipment	N/A				
E5012	OWS B	Contractor-Oil Water Separator B	Other Equipment	N/A				
E5013	Frac Tank B	Contractor-Frac Tank B	Storage Vessel	N/A				
E5014	Frac StorB1	Contractor-Frac Tank Storage Container B1	Storage Vessel	N/A				
E5015	Frac StorB2	Contractor-Frac Tank Storage Container B2	Storage Vessel	N/A				
E5016	Frac StorB3	Contractor-Frac Tank Storage Container B3	Storage Vessel	N/A				

**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>
E5017	Decant/CentB	Contractor- Decanter/ Centrifuge B	Other Equipment	N/A				
E5021	Mix Tank C	Contractor-Mix Tank C	Other Equipment	N/A				
E5022	OWS C	Contractor-Oil Water Separator C	Other Equipment	N/A				
E5023	Frac Tank C	Contractor-Frac Tank C	Storage Vessel	N/A				
E5024	Frac Stor C1	Contractor-Frac Tank Storage Container C1	Storage Vessel	N/A				
E5025	Frac Stor C2	Contractor-Frac Tank Storage Container C2	Storage Vessel	N/A				
E5026	Frac Stor C3	Contractor-Frac Tank Storage Container C3	Storage Vessel	N/A				
E5027	Decant/CentC	Contractor- Decanter/ Centrifuge C	Other Equipment	N/A				
E5031	Mix Tank D	Contractor-Mix Tank D	Other Equipment	N/A				
E5032	OWS D	Contractor-Oil Water Separator D	Other Equipment	N/A				
E5033	Frac Tank D	Contractor-Frac Tank D	Storage Vessel	N/A				
E5034	Frac Stor D1	Contractor-Frac Tank Storage Container D1	Storage Vessel	N/A				
E5035	Frac Stor D2	Contractor-Frac Tank Storage Container D2	Storage Vessel	N/A				
E5036	Frac Stor D3	Contractor-Frac Tank Storage Container D3	Storage Vessel	N/A				

**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>
E5037	Decant/CentD	Contractor- Decanter/ Centrifuge D	Other Equipment	N/A				
E5101	Port Blr1	Contractor-Portable Boiler	Boiler	N/A				
E5102	Port Blr2	Contractor-Portable Boiler	Boiler	N/A				
E5201	Port Diesel1	Contractor-Portable Diesel Equipment 1	Stationary Reciprocating Engine	N/A				
E5202	Port Diesel2	Contractor-Portable Diesel Equipment 2	Stationary Reciprocating Engine	N/A				
E5203	Port Diesel3	Contractor-Portable Diesel Equipment 3	Stationary Reciprocating Engine	N/A				
E5204	Port Diesel4	Contractor-Portable Diesel Equipment 4	Stationary Reciprocating Engine	N/A				
E5205	Port Diesel5	Contractor-Portable Diesel Equipment 5	Stationary Reciprocating Engine	N/A				
E5206	Port Diesel6	Contractor-Portable Diesel Equipment 6	Stationary Reciprocating Engine	N/A				
E5301	Port Diesel7	Contractor-Portable Diesel Equipment 7	Stationary Reciprocating Engine	N/A				
E5302	Port Diesel8	Contractor-Portable Diesel Equipment 8	Stationary Reciprocating Engine	N/A				
E5303	Port Diesel9	Contractor-Portable Diesel Equipment 9	Stationary Reciprocating Engine	N/A				
E5304	PortDiesel10	Contractor-Portable Diesel Equipment 10	Stationary Reciprocating Engine	N/A				

**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>
E5401	PortDiesel11	Contractor-Portable Diesel Equipment 11	Stationary Reciprocating Engine	N/A				
E5402	PortDiesel12	Contractor-Portable Diesel Equipment 12	Stationary Reciprocating Engine	N/A				
E5403	PortDiesel13	Contractor-Portable Diesel Equipment13	Stationary Reciprocating Engine	N/A				
E5404	Bio Heater 1	8 MMBtu/hr Hot Water Heater	Process Heater		10/1/2022	No		
E5405	Bio Heater 2	8 MMBtu/hr Hot Water Heater	Process Heater		10/1/2022	No		

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:



Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type Description:

Maximum Rated Gross Heat Input (MMBtu/hr):

Type of Heat Exchange:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O<sub>2</sub> in addition to lbs/hr and tons/yr.

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1005 (Other Equipment)  
Print Date: 9/23/2022

Make:

Manufacturer:

Model:

Equipment Type:

Wharf Berth No. 5

Capacity:

Units:

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1006 (Other Equipment)  
Print Date: 9/23/2022

Make:

Manufacturer:

Model:

Equipment Type:

Whaft Berth No. 6

Capacity:

Units:

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1101 (Storage Vessel)

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,970,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1101 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 750

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1102 (Storage Vessel)**

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,973,000

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:

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):

117.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1102 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 751](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1103 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,973,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

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

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1103 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 752](#)

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1104 (Storage Vessel)**

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,720,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1104 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 753](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1105 (Storage Vessel)

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,720,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1105 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1201 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,750,000

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:

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

None

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1201 (Storage Vessel)**

**Print Date: 9/23/2022**

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:



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1202 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,095,000

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:

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1202 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 19

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1203 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,750,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1203 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 27](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1204 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1204 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1205 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1205 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 767



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1206 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1206 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1207 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1207 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 769

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1208 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Shoe mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1208 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 770

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1209 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating 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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1209 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 771](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1210 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1210 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 772](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1211 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1211 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1212 (Storage Vessel)

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

7,140,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1212 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 777](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1213 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,300,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating 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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1213 (Storage Vessel)**

**Print Date: 9/23/2022**

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:



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1313 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,037,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating 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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1313 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1314 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,217,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1314 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1315 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1315 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1333 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,310,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

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):

114.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Total Number of Seals:

2

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1333 (Storage Vessel)**

**Print Date: 9/23/2022**

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:



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1346 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,100

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

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):

7.00

Width (ft):

Diameter (ft):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1346 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1347 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

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):

14.00

Width (ft):

Diameter (ft):

5.00

Other Dimension

Description:

Value:

Units:

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?

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1347 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1348 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,100

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1348 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 331

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1349 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,300

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1349 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 332](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1352 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,900

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1352 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank V- 8912](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1402 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,900,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1402 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 12

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1403 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,900,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1403 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1404 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,900,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1404 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 14



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1405 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,900,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1405 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 15

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1406 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1406 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 700

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1407 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1407 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1408 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1408 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 702](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1409 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1409 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1411 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

400,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1411 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1412 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

400,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1412 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 722](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1413 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

400,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1413 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 731



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1414 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1414 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 748

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1416 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1416 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 757](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1417 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

External floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Pontoon deck

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1417 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1418 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,900,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1418 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 16



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1419 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,750,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1419 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 22

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1420 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,750,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

120.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1420 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 23

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1421 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,800,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

88.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1421 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 760

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1422 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1422 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 780



Make:

Manufacturer:

Model:

Equipment Type Description:

Maximum Rated Gross Heat Input (MMBtu/hr):

Type of Heat Exchange:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O<sub>2</sub> in addition to lbs/hr and tons/yr.

Make:

Manufacturer:

Model:

Equipment Type Description:

Maximum Rated Gross Heat Input (MMBtu/hr):

Type of Heat Exchange:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O<sub>2</sub> in addition to lbs/hr and tons/yr.

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1701 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

454,568

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

45.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1701 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1702 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

10,500,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

180.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1702 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1703 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

845,968

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

40.00

Length (ft):

Width (ft):

Diameter (ft):

60.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1703 (Storage Vessel)**

**Print Date: 9/23/2022**

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:



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1704 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

10,500,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

180.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1704 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1705 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

10,500,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

180.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E1705 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:



Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

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

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

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

Comments:



Make:

Manufacturer:

Model:

Maximum Rated Gross Heat Input (MMBtu/hr):

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

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

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Cummins"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.42"/>
Will the equipment be used in excess of 500 hours per year?	<input type="text" value="No"/>
Have you attached a diagram showing the location and/or configuration of this equipment?	<input type="text"/>
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	<input type="text"/>
Comments:	<input type="text" value="155 kw"/>

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Cummins"/>
Model:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.68"/>
Will the equipment be used in excess of 500 hours per year?	<input type="text" value="No"/>
Have you attached a diagram showing the location and/or configuration of this equipment?	<input type="text"/>
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	<input type="text"/>
Comments:	<input type="text" value="172 kW"/>

Make:

Manufacturer:

Model:

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

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

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

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

Comments:

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="Clarke"/>
Model:	<input type="text" value="JW6H-UF30"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="1.95"/>
Will the equipment be used in excess of 500 hours per year?	<input type="text" value="No"/>
Have you attached a diagram showing the location and/or configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="198 kW"/>

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2201 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2201 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2202 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2202 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2203 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2203 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2204 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2204 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2205 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2205 (Storage Vessel)

Print Date: 9/23/2022

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2206 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2206 (Storage Vessel)

Print Date: 9/23/2022

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2207 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

4,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

10.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2207 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2501 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,750,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

External floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Pontoon deck

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2501 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 28](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2508 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

2,650,000

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:

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):

114.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

External floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

2

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2508 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 326](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2509 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,234,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating 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?

Does the storage vessel



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2509 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2510 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,570,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating 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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2510 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 330

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2511 (Storage Vessel)

Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

30,000

Units:

gallons

Ground Location:

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2511 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank V-723

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2514 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

3,245,000

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:

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):

117.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

External floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2514 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 765](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2515 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

200,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2515 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 775](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2516 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

216,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

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):

35.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2516 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2517 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

420,000

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:

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):

42.50

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

External floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Pontoon deck

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Total Number of Seals:

1

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2517 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 75D-1

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2601 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

5,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

134.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2601 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2602 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

8,300,000

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:

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):

180.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2602 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2604 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

5,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

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:

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

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

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?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2604 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Tank 759

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2605 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,500,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

White

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Good

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):

150.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Bottom Pipe

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Internal floating roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Mechanical Shoe

Secondary Seal Type:

Rim mounted

Total Number of Seals:

Roof Support:

Column-supported

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2605 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Tank 773](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2701 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

13,465

Units:

gallons

Ground Location:

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:

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

Length (ft):

20.00

Width (ft):

10.00

Diameter (ft):

9.00

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/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

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E2701 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:



Make: Dragon or equal

Manufacturer:

Model:

Equipment Type: Oil water separator

Capacity: 21000

Units: gallons

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

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

Comments: Oil Water Separator A

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5003 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5003 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5004 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5004 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container A1](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5005 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5005 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container A2](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5006 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5006 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container A3](#)

Make: Swaco, Alfa Laval, or equal

Manufacturer: Swaco, Alfa Laval, or equal

Model: Alfa Laval 418, Swaco 518, or equal

Equipment Type: Centrifuge

Capacity: 250

Units: gpm

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

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

Comments: Decanter/Centrifuge A

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make: Dragon or equal

Manufacturer:

Model:

Equipment Type: Oil water separator

Capacity: 21000

Units: gallons

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

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

Comments: Oil Water Separator B

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5013 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5013 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank B](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5014 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5014 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container B1](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5015 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5015 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container B2](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5016 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5016 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container B3](#)

Make: Swaco, Alfa Laval, or equal

Manufacturer: Swaco, Alfa Laval, or equal

Model: Alfa Laval 418, Swaco 518, or equal

Equipment Type: Centrifuge

Capacity: 250

Units: gpm

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

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

Comments: Decanter/Centrifuge B

Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make: Dragon or equal

Manufacturer:

Model:

Equipment Type: Oil water separator

Capacity: 21000

Units: gallons

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

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

Comments: Oil Water Separator C

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5023 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel



**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5023 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5024 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5024 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container C1](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5025 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5025 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container C2](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5026 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5026 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container C3](#)

Make: Swaco, Alfa Laval, or equal

Manufacturer: Swaco, Alfa Laval, or equal

Model: Alfa Laval 418, Swaco 518, or equal

Equipment Type: Centrifuge

Capacity: 250

Units: gpm

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

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

Comments: Decanter/Centrifuge C



Make:

Manufacturer:

Model:

Equipment Type:

Capacity:

Units:

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

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

Comments:

Make: Dragon or equal

Manufacturer:

Model:

Equipment Type: Oil water separator

Capacity: 21000

Units: gallons

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

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

Comments: Oil Water Separator D

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5033 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5033 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5034 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5034 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container D1](#)

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5035 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5035 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container D2](#)



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5036 (Storage Vessel)  
Print Date: 9/23/2022

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

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

21,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Other

Description (if other):

blue

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:

Rectangular

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

8.00

Length (ft):

45.00

Width (ft):

8.00

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

gal/min

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

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof  
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel  
have a Vapor Return Loop?

Does the storage vessel

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5036 (Storage Vessel)**

**Print Date: 9/23/2022**

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:

[Frac Tank Storage Container D3](#)

Make: Swaco, Alfa Laval, or equal

Manufacturer: Swaco, Alfa Laval, or equal

Model: Alfa Laval 418, Swaco 518, or equal

Equipment Type: Centrifuge

Capacity: 250

Units: gpm

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

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

Comments: Decanter/Centrifuge D

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5101 (Boiler)  
Print Date: 9/23/2022

Make:	Columbia, Cleaver Brooks, or equal
Manufacturer:	
Model:	100 HP boiler
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.20
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<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?

☐

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

☐

Comments: Portable Boiler

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5102 (Boiler)

Print Date: 9/23/2022

Make:	Columbia, Cleaver Brooks, or equal
Manufacturer:	
Model:	100 HP boiler
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.20
Boiler Type:	Package
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

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

Low NOx Burner:	<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?

☐

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

☐

Comments: Portable Boiler

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5201 (Stationary Reciprocating Engine)**  
**Print Date: 9/23/2022**

Make:	<input type="text" value="Caterpillar or equivalent"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="C-15"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="3"/>	
Class:	<input type="text"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Other"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text"/>	
Power Output (BHP):	<input type="text" value="450"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	
Engine Exhaust Temperature (°F):	<input type="text"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text" value="Pump/Compressor"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:	<input type="text" value="Contractor Portable diesel equipment 1"/>	

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

**18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5202 (Stationary Reciprocating Engine)**  
**Print Date: 9/23/2022**

Make:	<input type="text" value="Caterpillar or equivalent"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="C-15"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="3"/>	
Class:	<input type="text"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Other"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text"/>	
Power Output (BHP):	<input type="text" value="450"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	
Engine Exhaust Temperature (°F):	<input type="text"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text" value="Pump/Compressor"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:	<input type="text" value="Contractor Portable diesel equipment 1"/>	

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

Make:	Caterpillar or Equal
Manufacturer:	Caterpillar or Equal
Model:	XQ225 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	2.2
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	225
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	



A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

Make:	Caterpillar or Equal
Manufacturer:	Caterpillar or Equal
Model:	XQ225 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	2.2
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	225
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

**Comments:**

**Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.**

Make:	Caterpillar or Equal
Manufacturer:	Caterpillar or Equal
Model:	XQ225 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	2.2
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	225
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition to lbs/hr and tons/yr.

Make:	Caterpillar or Equal
Manufacturer:	Caterpillar or Equal
Model:	XQ225 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	2.2
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	
Electric Output (KW):	225
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

**Comments:**

**Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition to lbs/hr and tons/yr.**

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	C-9 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.88
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	275
Electric Output (KW):	205
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	



A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each  
Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition  
to lbs/hr and tons/yr.

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	C-9 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.88
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	275
Electric Output (KW):	205
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

**Comments:**

**Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.**

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	C-9 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.88
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	275
Electric Output (KW):	205
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition to lbs/hr and tons/yr.

Make:	Caterpillar
Manufacturer:	Caterpillar
Model:	C-9 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.88
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	275
Electric Output (KW):	205
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

Make:	Cummins or equal
Manufacturer:	Cummins or equal
Model:	MCD-250 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.92
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	335
Electric Output (KW):	250
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	



A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

**Comments:**

**Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition to lbs/hr and tons/yr.**

Make:	Cummins or equal
Manufacturer:	Cummins or equal
Model:	MCD-250 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.92
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	335
Electric Output (KW):	250
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard (NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppmdv @7% O2 in addition to lbs/hr and tons/yr.

Make:	Cummins or equal
Manufacturer:	Cummins or equal
Model:	MCD-250 or equal
Maximum Rated Gross Heat Input (MMBtu/hr-HHV):	1.92
Class:	
Duty:	
Description:	
Load Range (%):	
Stroke:	
Power Output (BHP):	335
Electric Output (KW):	250
Compression Ratio:	
Ignition Type:	Compression
Engine Speed (RPM):	
Engine Exhaust Temperature (deg F):	
Air to Fuel Ratio at Peak Load:	
Lambda Factor (scfm/scfm):	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	
Output Type:	
Heat to Power Ratio:	
Is the Engine Using a Turbocharger?	
Is the Engine Using an Aftercooler?	
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	

A NOx Converter

Air to Fuel Adjustment (AF)

Ignition Timing Retard

Low Emission Combustion

Non-Selective Catalytic Retard  
(NSCR)

Other

Description:

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

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

Comments:

Include Emission Rates on the Potential to Emit Screen for each Contaminant in grams/BHP-hr and ppm<sub>dv</sub> @7% O<sub>2</sub> in addition to lbs/hr and tons/yr.

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5404 (Process Heater)  
Print Date: 9/23/2022

Make:	QuikWater
Manufacturer:	QuikWater
Model:	8000
Equipment Type Description:	8 MMBtu/hr Hot Water Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	8
Draft Type:	
Firing Method:	Direct

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

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
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.

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 E5405 (Process Heater)  
Print Date: 9/23/2022

Make:	QuikWater
Manufacturer:	QuikWater
Model:	8000
Equipment Type Description:	8 MMBtu/hr Hot Water Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	8
Draft Type:	
Firing Method:	Direct

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

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
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.

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
**BOP210001**

Date: 9/23/2022

**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>
CD1001	F-1501	Marine Vapor Control System	Oxidizer (Thermal)	10/13/1994	No		
CD1002	VCU	Marine Vapor Control System	Oxidizer (Thermal)		No		
CD1798	Portable VCU	Portable VCU	Oxidizer (Thermal)		No		
CD1799	Portable Eng	Portable Engine	Oxidizer (Thermal)		No		
CD2401	VRU	Truck Rack Vapor Recovery Unit	Adsorber	5/1/1975	No		
CD5001	Carbon A	Contractor - Carbon Adsorption Train A	Adsorber				
CD5011	Carbon B	Contractor - Carbon Adsorption Train B	Adsorber				
CD5021	Carbon C	Contractor - Carbon Adsorption Train C	Adsorber				
CD5031	Carbon D	Contractor - Carbon Adsorption Train D	Adsorber				



18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 CD1001 (Oxidizer (Thermal))  
Print Date: 9/23/2022

Make:	Callidus
Manufacturer:	Callidus
Model:	F-1501
Minimum Chamber Temperature (°F):	1500
Minimum Residence Time (sec):	0.5
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	161
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:	O <sub>2</sub> , CO, and temp CEMS

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 CD1002 (Oxidizer (Thermal))  
Print Date: 9/23/2022

Make:	JORDAN TECHNOLOGIES
Manufacturer:	JORDAN TECHNOLOGIES
Model:	JT-VCU- 10.5-70
Minimum Chamber Temperature (°F):	1500
Minimum Residence Time (sec):	0.5
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	4
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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 CD1798 (Oxidizer (Thermal))  
Print Date: 9/23/2022

Make:	<input type="text" value="John Zink"/>
Manufacturer:	<input type="text" value="John Zink"/>
Model:	<input type="text" value="PECS 6"/>
Minimum Chamber Temperature (°F):	<input type="text"/>
Minimum Residence Time (sec):	<input type="text"/>
Fuel Type:	<input type="text" value="Natural gas"/>
Description:	<input type="text"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="9"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text"/>

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 CD1799 (Oxidizer (Thermal))  
Print Date: 9/23/2022

Make:	TBD
Manufacturer:	TBD
Model:	TBD
Minimum Chamber Temperature (°F):	
Minimum Residence Time (sec):	
Fuel Type:	
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	
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:	

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:

18058 BUCKEYE PERTH AMBOY TERMINAL LLC BOP210001 CD2401 (Adsorber)  
Print Date: 9/23/2022

Make:	Jordan Technologies
Manufacturer:	Jordan Technologies
Model:	JT-7595-1500D
Adsorber Type:	FR
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	962.5
Maximum Temperature of Vapor Stream to Adsorber (°F):	90
Minimum Temperature of Vapor Stream to Adsorber (°F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	
Bed Height:	
Bed Length:	
Bed Width:	
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H2O):	
Maximum Pressure Drop Across Adsorber (in. H2O):	
Total Weight of Adsorbant (lbs):	22000
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbant/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbant/lbs Adsorbant):	
Set-up Type:	
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input checked="" type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	
Sampling Device:	
Other:	<input type="checkbox"/>
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	
Method of Regeneration:	

Maximum Number of Sources  
Using this Apparatus as a Control  
Device (Include Permitted and  
Non-Permitted Sources):

2

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:

Make:	
Manufacturer:	General Carbon or equal
Model:	
Adsorber Type:	Activated Carbon
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	
Bed Length:	
Bed Width:	
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	
Maximum Pressure Drop Across Adsorber (In H2O):	
Total Weight of Adsorbant (lbs):	800
Total Weight of Adsorbant When Saturated (lbs):	1067
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	two canisters in series

**Method of Determining Breakthrough:**

Continuous Emissions Monitor (CEM)	<input type="text"/>
Replacement By Weight	<input type="text"/>
Periodic Testing	<input type="text" value="Yes"/>
Sampling Frequency	<input type="text" value="Daily, when equipment is in operation"/>
Sampling Device	<input type="text" value="Portable hydrocarbon monitor"/>
Other	<input type="text"/>
Description:	<input type="text"/>
Minimum Concentration at Breakthrough (ppmvd):	<input type="text" value="56 ppmvd VOC as methane"/>
Handling Method of Saturated Adsorbant:	<input type="text" value="Offsite Regeneration"/>
Method of Regeneration:	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text"/>
Have you attached data from recent performance testing?	<input type="text"/>
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="text"/>
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="text"/>
Comments:	<input type="text" value="Carbon Adsorption Train A"/>



### Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	General Carbon or equal
Model:	
Adsorber Type:	Activated Carbon
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	
Bed Length:	
Bed Width:	
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	
Maximum Pressure Drop Across Adsorber (In H2O):	
Total Weight of Adsorbant (lbs):	800
Total Weight of Adsorbant When Saturated (lbs):	1067
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	two canisters in series

**Method of Determining Breakthrough:**

Continuous Emissions Monitor (CEM)	<input type="text"/>
Replacement By Weight	<input type="text"/>
Periodic Testing	<input type="text" value="Yes"/>
Sampling Frequency	<input type="text" value="Daily, when equipment is in operation"/>
Sampling Device	<input type="text" value="Portable hydrocarbon monitor"/>
Other	<input type="text"/>
Description:	<input type="text"/>
Minimum Concentration at Breakthrough (ppmvd):	<input type="text" value="56 ppmvd VOC as methane"/>
Handling Method of Saturated Adsorbant:	<input type="text" value="Offsite Regeneration"/>
Method of Regeneration:	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	<input type="text"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text"/>
Have you attached data from recent performance testing?	<input type="text"/>
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="text"/>
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="text"/>
Comments:	<input type="text" value="Carbon Adsorption Train B"/>

### Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	General Carbon or equal
Model:	
Adsorber Type:	Activated Carbon
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	
Bed Length:	
Bed Width:	
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	
Maximum Pressure Drop Across Adsorber (In H2O):	
Total Weight of Adsorbant (lbs):	800
Total Weight of Adsorbant When Saturated (lbs):	1067
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	two canisters in series

**Method of Determining Breakthrough:**

Continuous Emissions Monitor (CEM)

Replacement By Weight

Periodic Testing

Sampling Frequency

Sampling Device

Other

Description:

**Minimum Concentration at Breakthrough (ppmvd):**

**Handling Method of Saturated Adsorbant:**

**Method of Regeneration:**

**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:**

**Have you attached data from recent performance testing?**

**Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?**

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

**Comments:**

### Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	General Carbon or equal
Model:	
Adsorber Type:	Activated Carbon
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	
Maximum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Temperature of Vapor Stream to Adsorber (deg F):	
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Activated Carbon
Bed Height:	
Bed Length:	
Bed Width:	
Units:	
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorber (In H2O):	
Maximum Pressure Drop Across Adsorber (In H2O):	
Total Weight of Adsorbant (lbs):	800
Total Weight of Adsorbant When Saturated (lbs):	1067
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	two canisters in series



**Method of Determining Breakthrough:**

Continuous Emissions Monitor (CEM)	
Replacement By Weight	
Periodic Testing	Yes
Sampling Frequency	Daily, when equipment is in operation
Sampling Device	Portable hydrocarbon monitor
Other	
Description:	
Minimum Concentration at Breakthrough (ppmvd):	56 ppmvd VOC as methane
Handling Method of Saturated Adsorbant:	Offsite Regeneration
Method of Regeneration:	
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:	
Have you attached data from recent performance testing?	
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	Carbon Adsorption Train D

### Control Device Design Efficiency Table

[illegible]

BOP210001

**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.		
PT1001	173	Marine Vapor Control	Round	126	60	800	1,575.0	1,500.0	1,600.0			343,000.0	Up	
PT1002	173B	Marine Vapor Control	Round	126	60	800	1,575.0	1,500.0	1,600.0				Up	
PT1101	041	Tank 750	Round		50	350	70.0	50.0	150.0				Up	
PT1102	040	Tank 751	Round		50	450	70.0	50.0	150.0				Up	
PT1103	039	Tank 752	Round		53	600	70.0	50.0	150.0				Up	
PT1104	038	Tank 753	Round	960	45	700	70.0	50.0	150.0				Up	
PT1105	037	Tank 754	Round	960	45	700	70.0	50.0	150.0				Up	
PT1201	073	Tank 18	Round		48	350	70.0	50.0	150.0				Up	
PT1202	031	Tank 19	Round		60	800	70.0	50.0	150.0				Up	
PT1203	070	Tank 27	Round		48	800	70.0	50.0	150.0				Up	
PT1204	083	Tank 766	Round		55	200	90.0	50.0	150.0				Up	
PT1205	082	Tank 767	Round		48	450	90.0	50.0	150.0				Up	
PT1206	081	Tank 768	Round		55	200	90.0	50.0	150.0				Up	
PT1207	080	Tank 769	Round		55	400	90.0	50.0	150.0				Up	
PT1208	079	Tank 770	Round		55	400	90.0	50.0	150.0				Up	
PT1209	078	Tank 771	Round		48	175	90.0	50.0	150.0				Up	
PT1210	077	Tank 772	Round		55	200	90.0	50.0	150.0				Up	
PT1211	075	Tank 774	Round		48	100	90.0	50.0	150.0				Up	
PT1212	074	Tank 777	Round		46	550	90.0	50.0	150.0				Up	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
**BOP210001**

Date: 9/23/2022

**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1213	088	Tank 778	Round		48	150	90.0	50.0	150.0				Up	
PT1313	068	Tank 305	Round		47	250	70.0	50.0	150.0				Up	
PT1314	067	Tank 306	Round		48	350	70.0	50.0	150.0				Up	
PT1315	182	Tank 307	Round	76	14	350	70.0	50.0	150.0				Up	
PT1333	063	Tank 327	Round		31	950	70.0	50.0	150.0				Up	
PT1346	200	Tank 003	Round	120	8	1,000	70.0	50.0	150.0				Up	
PT1347	201	Tank 004	Round	60	14	1,000	70.0	50.0	150.0				Up	
PT1348	179	Tank 331	Round	66	6	400	70.0	50.0	150.0			13.0	Up	
PT1349	180	Tank 332	Round	66	6	30	70.0	50.0	150.0			13.0	Up	
PT1352	204	Tank V-8912	Round	78	11	350	70.0	50.0	150.0				Up	
PT1402	092	Tank 12	Round		48	200	300.0	100.0	375.0				Up	
PT1403	093	Tank 13	Round		28	200	300.0	100.0	375.0				Up	
PT1404	094	Tank 14	Round		52	300	200.0	100.0	375.0				Up	
PT1405	095	Tank 15	Round		48	100	300.0	100.0	375.0				Up	
PT1406	120	Tank 700	Round	840	36	200	300.0	100.0	375.0				Up	
PT1407	121	Tank 701	Round	840	35	200	300.0	100.0	375.0				Up	
PT1408	122	Tank 702	Round	840	35	200	300.0	100.0	375.0				Up	
PT1409	123	Tank 703	Round	840	35	250	300.0	100.0	375.0				Up	
PT1411	138	Tank 721	Round	540	36	200	300.0	100.0	375.0				Up	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1412	139	Tank 722	Round	540	35	300	300.0	100.0	375.0				Up	
PT1413	143	Tank 731	Round	540	35	200	350.0	100.0	375.0				Up	
PT1414	149	Tank 748	Round	804	38	200	300.0	100.0	375.0				Up	
PT1416	152	Tank 757	Round		44	200	300.0	100.0	375.0				Up	
PT1417	153	Tank 758	Round		44	200	300.0	100.0	375.0				Up	
PT1418	096	Tank 16	Round		48	100	300.0	100.0	375.0				Up	
PT1419	008	Tank 22	Round		55	1,000	70.0	50.0	150.0				Up	
PT1420	071	Tank 23	Round		48	800	70.0	50.0	150.0				Up	
PT1421	155	Tank 760	Round		40	200	100.0	50.0	150.0				Up	
PT1422	021	Tank 780	Round		48	200	70.0	50.0	150.0				Up	
PT1602	219	F-169P	Round	60	113	250	512.0			13,500.0		19,000.0	Up	
PT1603	220	F-170P	Round	54	95	400	512.0			13,500.0		19,000.0	Up	
PT1701	199	Tank 199	Round	180	48	600	70.0	50.0	150.0				Up	
PT1702	319	Tank 319	Round	180	48	600	70.0	50.0	150.0				Up	
PT1703	320	Tank 781	Round		40	600	70.0	50.0	150.0				Up	
PT1704	321	Tank 321	Round	180	48	600	70.0	50.0	150.0				Up	
PT1705	322	Tank 322	Round	180	48	600	70.0	50.0	150.0				Up	
PT1798	Port VCU	Portable VCU	Round			150	1,575.0	1,500.0	1,600.0				Up	
PT1799	Port Eng	Portable Engine	Round			600	1,575.0	1,500.0	1,600.0				Up	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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Date: 9/23/2022

**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1801	015	No. flare F-8991	Round	12	150	460			2,500.0			3,640,000.0	Up	
PT2001	208	No. 3 API Separator Diversion Box	Surface	163	0	250	80.0	40.0	125.0				Up	
PT2002	209	No. 3 API Separator Forebay	Surface	148	0	200	80.0	40.0	125.0				Up	
PT2003	210	No. 3 API Separator	Surface	766	0	150	80.0	40.0	125.0				Up	
PT2004	211	IAF Units	Surface	564	33	150	80.0	40.0	125.0				Up	
PT2005	211	IAF Units	Square	564	33	150	80.0	40.0	125.0				Up	
PT2006	212	Equalization Tank	Surface		25	150	70.0	40.0	100.0				Up	
PT2007	213	Oily Water Bin	Surface	218	0	225	70.0	40.0	100.0				Up	
PT2008	214	Oil Bin	Surface	109	0	225	70.0	40.0	100.0				Up	
PT2009	215	Stormwater Diversion Box	Surface	425	0	200	70.0	40.0	100.0				Up	
PT2010	216	Float Separation Tank T-9201	Surface	456	18	300	70.0	40.0	100.0				Up	
PT2011	217	Sludge Mixing Tank T-9205	Surface	240	10	300	70.0	40.0	100.0				Up	
PT2101	174	1100 KW Emergency Diesel Generator	Round	8	17	150			950.0			11,345.0	Up	
PT2102	181	250 KW Emergency Diesel Generator	Round	6	14	225			805.0			10,292.0	Horizontal	
PT2104	221	155 kW Cummins Emergency Diesel Pump	Round	4	10	70	815.0		890.0			953.0	Horizontal	
PT2105	222	172 kW Cummins Emergency Diesel Pump	Round	4	10	900	986.0		986.0	1,100.0		1,600.0	Horizontal	
PT2106	RAC	Rental Emergency Air Compressor	Round	4	8		800.0			2,500.0			Horizontal	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT2107	223	198 KW Emergency Diesel Pump	Round	6	10	65	990.0			1,107.0		1,404.0	Horizontal	
PT2201	ADD1	Additive Tank 1	Round	6	12	600	70.0	50.0	100.0				Up	
PT2202	ADD2	Additive Tank 2	Round	6	12	600	70.0	50.0	100.0				Up	
PT2203	ADD3	Additive Tank 3	Round	6	12	600	70.0	50.0	100.0				Up	
PT2204	ADD4	Additive Tank 4	Round	6	12	600	70.0	50.0	100.0				Up	
PT2205	ADD5	Additive Tank 5	Round	6	12	600	70.0	50.0	100.0				Up	
PT2206	ADD6	Additive Tank 6	Round	6	12	600	70.0	50.0	100.0				Up	
PT2207	ADD7	Additive Tank 7	Round	6	12	600	70.0	50.0	100.0				Up	
PT2401	025	Truck Rack VRU Stack	Round	72	20	150	70.0	50.0	100.0			23,000.0	Up	
PT2501	030	Tank 28	Round		48	800	70.0	50.0	150.0				Up	
PT2508	064	Tank 326	Round		36	1,000	70.0	50.0	150.0				Up	
PT2509	062	Tank 328	Round		47	950	70.0	50.0	150.0				Up	
PT2510	048	Tank 330	Round		45	900	70.0	50.0	150.0				Up	
PT2511	140	Tank V-723	Round	204	18	1,000	70.0	50.0	150.0				Up	
PT2514	036	Tank 765	Round		41	350	70.0	50.0	150.0				Up	
PT2515	156	Tank 775	Round	420	29	200	70.0	50.0	100.0				Up	
PT2516	035	Tank 776	Round	420	30	350	70.0	50.0	100.0				Up	
PT2517	042	Tank 75D-1	Round	516	40	1,000	70.0	50.0	125.0				Up	
PT2601	091	Tank 11	Round		50	200	300.0	100.0	375.0				Up	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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Date: 9/23/2022

**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT2602	110	Tank 116	Round		48	600	70.0	50.0	125.0				Up	
PT2604	154	Tank 759	Round		48	200	100.0	50.0	150.0				Up	
PT2605	076	Tank 773	Round		45	400	100.0	50.0	150.0				Up	
PT2701	OWS	Oil Water Seperator	Round	3	9	150	70.0	50.0	100.0				Up	
PT5001	Carbon BedA	Exhaust from Carbon Bed A	Round	3			70.0	50.0	100.0			100.0	Up	
PT5011	Carbon BedB	Exhaust from Carbon Bed B	Round	3			70.0	50.0	100.0			100.0	Up	
PT5021	Carbon BedC	Exhaust from Carbon Bed C	Round	3			70.0	50.0	100.0			100.0	Up	
PT5031	Carbon BedD	Exhaust from Carbon Bed D	Round	3			70.0	50.0	100.0			100.0	Up	
PT5101	Port BlrA	Portable Boiler A	Round		10								Up	
PT5102	Port BlrB	Portable Boiler B	Rectangle		10								Up	
PT5201	Port Diesel1	Contractor-Portable Diesel Equipment 1	Round	5	7		900.0			2,700.0			Up	
PT5202	Port Diesel2	Contractor-Portable Diesel Equipment 2	Round	5	7		900.0			2,700.0			Up	
PT5203	Port Diesel3	Contractor-Portable Diesel Equipment 3	Rectangle	2	7		900.0			1,100.0			Horizontal	
PT5204	Port Diesel4	Contractor-Portable Diesel Equipment 4	Rectangle	2	7		900.0			1,100.0			Horizontal	
PT5205	Port Diesel5	Contractor-Portable Diesel Equipment 5	Rectangle	2	7		900.0			1,100.0			Horizontal	
PT5206	Port Diesel6	Contractor-Portable Diesel Equipment 6	Rectangle	2	7		900.0			1,100.0			Horizontal	
PT5301	Port Diesel7	Contractor-Portable Diesel Equipment 7	Round	3	7		800.0			1,700.0			Horizontal	



**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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**New Jersey Department of Environmental Protection**  
**Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT5302	Port Diesel8	Contractor-Portable Diesel Equipment 8	Round	3	7		800.0			1,700.0			Horizontal	
PT5303	Port Diesel9	Contractor-Portable Diesel Equipment 9	Round	3	7		800.0			1,700.0			Horizontal	
PT5304	PortDiesel10	Contractor-Portable Diesel Equipment 10	Round	3	7		800.0			1,700.0			Horizontal	
PT5401	PortDiesel11	Contractor-Portable Diesel Equipment 11	Round	4	7		900.0			1,600.0			Up	
PT5402	PortDiesel12	Contractor-Portable Diesel Equipment 12	Round	4	7		900.0			1,600.0			Up	
PT5403	PortDiesel13	Contractor-Portable Diesel Equipment 13	Round	4	7		900.0			1,600.0			Up	
PT5404	Bio Heater 1	8 MMBtu/hr Hot Water Heater	Round	20	20	375		200.0	400.0		1,800.0	3,000.0	Up	
PT5405	Bio Heater 2	8 MMBtu/hr Hot Water Heater	Round	20	20	375		200.0	400.0		1,800.0	3,000.0	Up	

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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Date: 9/23/2022

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

**U 10 Area A Wharf Wharf MACT Subpart Y**

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	Area A B1	Berth No. 1 - Load applicable VOCs	Normal - Steady State	E1001	CD1002 (P)	PT1002		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS2	Area A B3	Berth No. 3 - Load applicable VOCs	Normal - Steady State	E1002	CD1002 (P)	PT1002		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS3	Area A B2	Berth No. 2 - Load applicable VOCs	Normal - Steady State	E1005	CD1002 (P)	PT1002		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS4	Area A B4	Berth No. 4 - Load applicable VOCs	Normal - Steady State	E1006	CD1002 (P)	PT1002		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS5	Area A B1	Berth No. 1 - Load applicable VOCs	Normal - Steady State	E1001	CD1001 (P)	PT1001		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS6	Area A B3	Berth No. 3 - Load applicable VOCs	Normal - Steady State	E1002	CD1001 (P)	PT1001		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS7	Area A B2	Berth No. 2 - Load applicable VOCs	Normal - Steady State	E1005	CD1001 (P)	PT1001		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS8	Area A B4	Berth No. 4 - Load applicable VOCs	Normal - Steady State	E1006	CD1001 (P)	PT1001		0.0	1,500.0		343,000.0		1,400.0	1,600.0
OS9	Area A B1	Berth No.1- Load non-applicable VOCs	Normal - Steady State	E1001										
OS10	Area A B3	Berth No.3- Load non-applicable VOCs	Normal - Steady State	E1002										
OS11	Area AB2	Berth No.2 - Load non-applicable VOCs	Normal - Steady State	E1005										
OS12	Area AB4	Berth No 4- Load non-applicable VOCs	Normal - Steady State	E1006										
OS13	Area A B1	Berth No. 1 - Load applicable VOCs	Normal - Steady State	E1001	CD1001 (P) CD1002 (P)	PT1001 PT1002		0.0	8,760.0		343,000.0		1,400.0	1,600.0
OS14	Area A B3	Berth No. 3 - Load applicable VOCs	Normal - Steady State	E1002	CD1001 (P) CD1002 (P)	PT1001 PT1002		0.0	8,760.0		343,000.0		1,400.0	1,600.0

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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Date: 9/23/2022

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

**U 10 Area A Wharf Wharf MACT Subpart Y**

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	Area A B2	Berth No. 2 - Load applicable VOCs	Normal - Steady State	E1005	CD1001 (P) CD1002 (P)	PT1001 PT1002		0.0	8,760.0			343,000.0	1,400.0	1,600.0
OS16	Area A B4	Berth No. 4 - Load applicable VOCs	Normal - Steady State	E1006	CD1001 (P) CD1002 (P)	PT1001 PT1002		0.0	8,760.0			343,000.0	1,400.0	1,600.0

**U 11 Area B Gr I Group I Storage Tanks subject to MACT Subpart A & Subpart R**

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	Area B 750	Storage Tank 750, IF Roof, 3,970,000 gal., =< 13.0 psia, NSPS Kb, MACT R	Normal - Steady State	E1101		PT1101		0.0	8,760.0				50.0	150.0
OS2	Area B 751	Storage Tank 751, IF Roof, 3,973,000 gal., =< 13.0 psia, MACT R	Normal - Steady State	E1102		PT1102		0.0	8,760.0				50.0	100.0
OS3	Area B 752	Storage Tank 752, IF Roof, 3,973,000 gal., =< 13.0 psia, MACT R	Normal - Steady State	E1103		PT1103		0.0	8,760.0				50.0	100.0
OS4	Area B 753	Storage Tank 753, IF Roof, 1,720,000 gal., =< 13.0 psia, NSPS Kb, MACT R	Normal - Steady State	E1104		PT1104		0.0	8,760.0				50.0	100.0

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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**New Jersey Department of Environmental Protection**  
**Emission Unit/Batch Process Inventory**

**U 11 Area B Gr I Group I Storage Tanks subject to MACT Subpart A & Subpart R**

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	Area B 754	Storage Tank 754, IF Roof, 1,720,000 gal., =< 13.0 psia, NSPS Kb, MACT R	Normal - Steady State	E1105		PT1105		0.0	8,760.0				50.0	100.0
OS6	Maintenance	Storage Tank 750 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1101		PT1101		0.0	8,760.0				50.0	150.0
OS7	Maintenance	Storage Tank 751 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1102		PT1102		0.0	8,760.0				50.0	100.0
OS8	Maintenance	Storage Tank 752 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1103		PT1103		0.0	8,760.0				50.0	100.0
OS9	Maintenance	Storage Tank 753 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1104		PT1104		0.0	8,760.0				50.0	100.0
OS10	Maintenance	Storage Tank 754 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1105		PT1105		0.0	8,760.0				50.0	100.0
OS11	Maintenance	Storage Tank 750 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1101	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

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**U 11 Area B Gr I Group I Storage Tanks subject to MACT Subpart A & Subpart R**

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.
OS12	Maintenance	Storage Tank 751 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1102	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS13	Maintenance	Storage Tank 753 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1104	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS14	Maintenance	Storage Tank 754 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1105	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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	Area B 18	Storage Tank 18, IF Roof, 3,750,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1201		PT1201		0.0	8,760.0				50.0	125.0
OS2	Area B 19	Storage Tank 19, IF Roof, 4,095,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1202		PT1202		0.0	8,760.0				50.0	125.0

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**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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.
OS3	Area B 27	Storage Tank 27, IF Roof, 3,750,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1203		PT1203		0.0	8,760.0				50.0	125.0
OS4	Area B 766	Storage Tank 766, IF Roof, 6,300,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1204		PT1204		0.0	8,760.0				50.0	125.0
OS5	Area B 767	Storage Tank 767, IF Roof, 6,300,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1205		PT1205		0.0	8,760.0				50.0	125.0
OS6	Area B 768	Storage Tank 768, IF Roof, 6,300,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1206		PT1206		0.0	8,760.0				50.0	125.0
OS7	Area B 769	Storage Tank 769, IF Roof, 6,300,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1207		PT1207		0.0	8,760.0				50.0	125.0
OS8	Area B 770	Storage Tank 770, IF Roof, 6,300,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1208		PT1208		0.0	8,760.0				50.0	125.0
OS9	Area B 771	Storage Tank 771, IF Roof, 6,300,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1209		PT1209		0.0	8,760.0				50.0	125.0
OS10	Area B 772	Storage Tank 772, IF Roof, 6,300,000 gal., =< 13.0 psia, NSPS Kb, Group II	Normal - Steady State	E1210		PT1210		0.0	8,760.0				50.0	125.0
OS11	Area B 774	Storage Tank 774, IF Roof, 6,300,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1211		PT1211		0.0	8,760.0				50.0	125.0

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**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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.
OS12	Area B 777	IF Roof, 7,140,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1212		PT1212		0.0	8,760.0				50.0	125.0
OS13	Area B 778	Storage Tank 778, IF Roof, 6,300,000 gal., =< 13.0 psia, Group II	Normal - Steady State	E1213		PT1213		0.0	8,760.0				50.0	125.0
OS14	Maintenance	Storage Tank 18 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1201		PT1201		0.0	8,760.0				50.0	125.0
OS15	Maintenance	Storage Tank 19 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1202		PT1202		0.0	8,760.0				50.0	125.0
OS16	Maintenance	Storage Tank 27 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1203		PT1203		0.0	8,760.0				50.0	125.0
OS17	Maintenance	Storage Tank 766 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1204		PT1204		0.0	8,760.0				50.0	125.0
OS18	Maintenance	Storage Tank 767 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1205		PT1205		0.0	8,760.0				50.0	125.0
OS19	Maintenance	Storage Tank 768 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1206		PT1206		0.0	8,760.0				50.0	125.0
OS20	Maintenance	Storage Tank 769 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1207		PT1207		0.0	8,760.0				50.0	125.0

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**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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.
OS21	Maintenance	Storage Tank 770 - Maintenance (Tank Opening,Cleaning) and Roof Landings	Maintenance	E1208		PT1208		0.0	8,760.0				50.0	125.0
OS22	Maintenance	Storage Tank 771 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1209		PT1209		0.0	8,760.0				50.0	125.0
OS23	Maintenance	Storage Tank 772 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1210		PT1210		0.0	8,760.0				50.0	125.0
OS24	Maintenance	Storage Tank 774 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1211		PT1211		0.0	8,760.0				50.0	125.0
OS25	Maintenance	Storage Tank 777 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1212		PT1212		0.0	8,760.0				50.0	125.0
OS26	Maintenance	Storage Tank 778 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1213		PT1213		0.0	8,760.0				50.0	125.0
OS27	Maintenance	Storage Tank 18 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1201	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS28	Maintenance	Storage Tank 19 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1202	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0



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**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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	Maintenance	Storage Tank 27 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1203	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS30	Maintenance	Storage Tank 766 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1204	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS31	Maintenance	Storage Tank 767 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1205	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS32	Maintenance	Storage Tank 768 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1206	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS33	Maintenance	Storage Tank 769 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1207	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS34	Maintenance	Storage Tank 770 - CONTROLLED Maintenance (Tank Opening,Cleaning) and Roof Landings	Maintenance	E1208	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

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**U 12 Area B - C Group II B - C Storage Tanks subject to NSPS Subpart A & Subpart Kb and MACT Subpart A & Subpart R**

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.
OS35	Maintenance	Storage Tank 771 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1209	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS36	Maintenance	Storage Tank 772 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1210	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS37	Maintenance	Storage Tank 774 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1211	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS38	Maintenance	Storage Tank 777 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1212	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS39	Maintenance	Storage Tank 778 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1213	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

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**U 13 Area B-I<=13 Group II B - I Storage Tanks <= 13.0 psia MACT Subpart A & Subpart R**

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.
OS13	Area B 305	Storage Tank 305 IF Roof, 2,037,000 gal., =< 13.0 psia	Normal - Steady State	E1313		PT1313		0.0	8,760.0					
OS14	Area B 306	Storage Tank 306 IF Roof, 2,217,000 gal., =< 13.0 psia	Normal - Steady State	E1314		PT1314		0.0	8,760.0					
OS15	Area B 307	Storage Tank 307 Horizontal Tank, 2,000 gal., =< 13.0 psia	Normal - Steady State	E1315		PT1315		0.0	8,760.0					
OS33	Area B 327	Storage Tank 327 IF Roof, 2,310,000 gal., =< 13.0 psia	Normal - Steady State	E1333		PT1333		0.0	8,760.0					
OS46	Area B 003	Storage Tank 003 Horizontal Tank, 4,100 gal., =< 13.0 psia	Normal - Steady State	E1346		PT1346		0.0	8,760.0					
OS47	Area B 004	Storage Tank 004 Horizontal Tank, 2,000 gal., =< 13.0 psia	Normal - Steady State	E1347		PT1347		0.0	8,760.0					
OS48	Area B 331	Storage Tank 331 Horizontal Tank, 2,100 gal., =< 13.0 psia	Normal - Steady State	E1348		PT1348		0.0	8,760.0					
OS49	Area B 332	Storage Tank 332 Horizontal Tank, 4,300 gal., =< 13.0 psia	Normal - Steady State	E1349		PT1349		0.0	8,760.0					
OS52	Area B V-891	Storage Tank V-8912 Cone Roof, 211,000 gal., =< 13.0 psia	Normal - Steady State	E1352		PT1352		0.0	8,760.0					
OS64	Maintenance	Storage Tank 305 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1313		PT1313								

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**U 13 Area B-I<=13 Group II B - I Storage Tanks <= 13.0 psia MACT Subpart A & Subpart R**

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.
OS65	Maintenance	Storage Tank 306 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1314		PT1314								
OS66	Maintenance	Storage Tank 307 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1315		PT1315								
OS84	Maintenance	Storage Tank 327 - Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1333		PT1333								
OS97	Maintenance	Storage Tank 003 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1346		PT1346								
OS98	Maintenance	Storage Tank 004 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1347		PT1347								
OS99	Maintenance	Storage Tank 331 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1348		PT1348								
OS100	Maintenance	Storage Tank 332 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1349		PT1349								
OS103	Maintenance	Storage Tank V-8912 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1352		PT1352								
OS104	Maintenance	Storage Tank 305 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1313	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

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**U 13 Area B-I<=13 Group II B - I Storage Tanks <= 13.0 psia MACT Subpart A & Subpart R**

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.
OS105	Maintenance	Storage Tank 306 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1314	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS106	Maintenance	Storage Tank 307 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1315	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS107	Maintenance	Storage Tank 327 - CONTROLLED Maintenance (Tank Opening, Cleaning) and Roof Landings	Maintenance	E1333	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS108	Maintenance	Storage Tank 003 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1346	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS109	Maintenance	Storage Tank 004 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1347	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS110	Maintenance	Storage Tank 331 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1348	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0
OS111	Maintenance	Storage Tank 332 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1349	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

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**U 13 Area B-I<=13 Group II B - I Storage Tanks <= 13.0 psia MACT Subpart A & Subpart R**

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.
OS112	Maintenance	Storage Tank V-8912 - CONTROLLED Maintenance (Tank Opening, Cleaning)	Maintenance	E1352	CD1798 (P) CD1799 (P)	PT1798 PT1799		0.0	8,760.0				50.0	150.0

**U 14 AreaB-A<=.04 Group II B - A Storage Tanks <= 0.04 psia**

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.
OS6	Area B 700	Storage Tank 700, Cone Roof, 1,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1406		PT1406		5,000.0	8,760.0					
OS7	Area B 701	Storage Tank 701, Cone Roof, 1,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1407		PT1407		5,000.0	8,760.0					
OS8	Area B 702	Storage Tank 702, Cone Roof, 1,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1408		PT1408		5,000.0	8,760.0					
OS9	Area B 703	Storage Tank 703, Cone Roof, 1,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1409		PT1409		5,000.0	8,760.0					
OS11	Area B 721	Storage Tank 721, Cone Roof, 400,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1411		PT1411		5,000.0	8,760.0					

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**U 14 AreaB-A<=.04 Group II B - A Storage Tanks <= 0.04 psia**

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.
OS12	Area B 722	Storage Tank 722, Cone Roof, 400,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1412		PT1412		5,000.0	8,760.0					
OS13	Area B 731	Storage Tank 731, Cone Roof, 400,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1413		PT1413		5,000.0	8,760.0					
OS14	Area B 748	Storage Tank 748, Cone Roof, 1,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1414		PT1414		5,000.0	8,760.0					
OS16	Area B 757	Storage Tank 757, Cone Roof, 3,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1416		PT1416		5,000.0	8,760.0					
OS22	Area B 780	Storage Tank 780, Cone Roof, 4,000,000 gal., =< 0.04 psia, Group II	Normal - Steady State	E1422		PT1422		5,000.0	8,760.0					
OS28	Maintenance	Storage Tank 700 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1406		PT1406								
OS29	Maintenance	Storage Tank 701 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1407		PT1407								
OS30	Maintenance	Storage Tank 702 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1408		PT1408								
OS31	Maintenance	Storage Tank 703 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1409		PT1409								
OS33	Maintenance	Storage Tank 721 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1411		PT1411								
OS34	Maintenance	Storage Tank 722 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1412		PT1412								

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**U 14 AreaB-A<=.04 Group II B - A Storage Tanks <= 0.04 psia**

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.
OS35	Maintenance	Storage Tank 731 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1413		PT1413								
OS36	Maintenance	Storage Tank 748 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1414		PT1414								
OS37	Maintenance	Storage Tank 757 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1416		PT1416								
OS43	Maintenance	Storage Tank 780 - Maintenance (Tank Opening, Cleaning)	Maintenance	E1422		PT1422								

**U 17 Gasoline Tks Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER**

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 199	Tank 199 (Normal Operations)	Normal - Steady State	E1701		PT1701	4-04-001-78	0.0	8,760.0				50.0	100.0
OS2	Tank 319	Tank 319 (Normal Operations)	Normal - Steady State	E1702		PT1702	4-04-001-78	0.0	8,760.0				50.0	100.0
OS3	Tank 781	Tank 781 (Normal Operations)	Normal - Steady State	E1703		PT1703	4-04-001-78	0.0	8,760.0				50.0	100.0
OS4	Tank 321	Tank 321 (Normal Operations)	Normal - Steady State	E1704		PT1704	4-04-001-78	0.0	8,760.0				50.0	100.0



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**U 17 Gasoline Tks Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER**

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	Tank 322	Tank 322 (Normal Operations)	Normal - Steady State	E1705		PT1705	4-04-001-78	0.0	8,760.0				50.0	100.0
OS6	Tank 199L	Tank 199 (Landing)	Normal - Steady State	E1701	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS7	Tank 319L	Tank 319 (Landing)	Normal - Steady State	E1702	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS8	Tank 781L	Tank 781 (Landing)	Normal - Steady State	E1703	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS9	Tank 321L	Tank 321 (Landing)	Normal - Steady State	E1704	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS10	Tank 322L	Tank 322 (Landing)	Normal - Steady State	E1705	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS11	Tank 199C	Tank 199 (Cleaning)	Normal - Steady State	E1701	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS12	Tank 319C	Tank 319 (Cleaning)	Normal - Steady State	E1702	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS13	Tank 781C	Tank 781 (Cleaning)	Normal - Steady State	E1703	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS14	Tank 321C	Tank 321 (Cleaning)	Normal - Steady State	E1704	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS15	Tank 322C	Tank 322 (Cleaning)	Normal - Steady State	E1705	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				50.0	100.0
OS16	Tank 11	Tank 11 (Normal Operations)	Normal - Steady State	E2601		PT2601	4-04-001-78	0.0	8,760.0				50.0	100.0
OS17	Tank 12	Tank 12 (Normal Operations)	Normal - Steady State	E1402		PT1402	4-04-001-78	0.0	8,760.0				50.0	100.0

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**U 17 Gasoline Tks Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER**

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.
OS18	Tank 13	Tank 13 (Normal Operations)	Normal - Steady State	E1403		PT1403	4-04-001-78	0.0	8,760.0				50.0	100.0
OS19	Tank 14	Tank 14 (Normal Operations)	Normal - Steady State	E1404		PT1404	4-04-001-78	0.0	8,760.0				50.0	100.0
OS20	Tank 15	Tank 15 (Normal Operations)	Normal - Steady State	E1405		PT1405	4-04-001-78	0.0	8,760.0				50.0	100.0
OS21	Tank 16	Tank 16 (Normal Operations)	Normal - Steady State	E1418		PT1418	4-04-001-78	0.0	8,760.0				50.0	100.0
OS22	Tank 22	Tank 22 (Normal Operations)	Normal - Steady State	E1419		PT1419	4-04-001-78	0.0	8,760.0				50.0	100.0
OS23	Tank 23	Tank 23 (Normal Operations)	Normal - Steady State	E1420		PT1420	4-04-001-78	0.0	8,760.0				50.0	100.0
OS24	Tank 760	Tank 760 (Normal Operations)	Normal - Steady State	E1421		PT1421	4-04-001-78	0.0	8,760.0				50.0	100.0
OS25	Tank 773	Tank 773 (Normal Operations)	Normal - Steady State	E2605		PT2605	4-04-001-78	0.0	8,760.0				50.0	100.0
OS26	Tank 11L	Tank 11 (Landing)	Normal - Steady State	E2601	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS27	Tank 12L	Tank 12 (Landing)	Normal - Steady State	E1403	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS28	Tank 13L	Tank 13 (Landing)	Normal - Steady State	E1404	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS29	Tank 14L	Tank 14 (Landing)	Normal - Steady State	E1405	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS30	Tank 15L	Tank 15 (Landing)	Normal - Steady State	E1405	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS31	Tank 16L	Tank 16 (Landing)	Normal - Steady State	E1418	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0

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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	Tank 22L	Tank 22 (Landing)	Normal - Steady State	E1419	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS33	Tank 23L	Tank 23 (Landing)	Normal - Steady State	E1420	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS34	Tank 760L	Tank 760 (Landing)	Normal - Steady State	E1421	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS35	Tank 773L	Tank 773 (Landing)	Normal - Steady State	E2605	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS36	Tank 11C	Tank 11 (Cleaning)	Normal - Steady State	E2601	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS37	Tank 12C	Tank 12 (Cleaning)	Normal - Steady State	E1402	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS38	Tank 13C	Tank 13 (Cleaning)	Normal - Steady State	E1403	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS39	Tank 14C	Tank 14 (Cleaning)	Normal - Steady State	E1404	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS40	Tank 15C	Tank 15 (Cleaning)	Normal - Steady State	E1405	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS41	Tank 16C	Tank 16 (Cleaning)	Normal - Steady State	E1418	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS42	Tank 22C	Tank 22 (Cleaning)	Normal - Steady State	E1419	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS43	Tank 23C	Tank 23 (Cleaning)	Normal - Steady State	E1420	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0

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**U 17 Gasoline Tks Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER**

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.
OS44	Tank 760C	Tank 760 (Cleaning)	Normal - Steady State	E1421	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS45	Tank 773C	Tank 773 (Cleaning)	Normal - Steady State	E2605	CD1798 (P) CD1799 (P)	PT1798 PT1799	4-04-001-78	0.0	8,760.0				1,500.0	1,600.0
OS46	Tank 75D-1	Tank 75D-1 (Normal Operations)	Normal - Steady State	E2517		PT2517								
OS47	Tank 326	Tank 326 (Normal Operations)	Normal - Steady State	E2508		PT2508								
OS48	Tank 328	Tank 328 (Normal Operations)	Normal - Steady State	E2509		PT2509								
OS49	Tank 330	Tank 330 (Normal Operations)	Normal - Steady State	E2510		PT2510								
OS50	Tank 765	Tank 765 (Normal Operations)	Normal - Steady State	E2514		PT2514								
OS51	Tank 758	Tank 758 (Normal Operations)	Normal - Steady State	E1417		PT1417								
OS52	Tank 759	Tank 759 (Normal Operations)	Normal - Steady State	E2604		PT2604								
OS53	Tank 75D-1L	Tank 75D-1 (Landing)	Normal - Steady State	E2517	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS54	Tank 326L	Tank 326 (Landing)	Normal - Steady State	E2508	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS55	Tank 328L	Tank 328 (Landing)	Normal - Steady State	E2509	CD1002 (P) CD1799 (P)	PT1798 PT1799								
OS56	Tank 330L	Tank 330 (Landing)	Normal - Steady State	E2510	CD1798 (P) CD1799 (P)	PT1798 PT1799								

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**U 17 Gasoline Tks Gasoline Tanks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart Kb and LAER**

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.
OS57	Tank 765L	Tank 765 (Landing)	Normal - Steady State	E2514	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS58	Tank 758L	Tank 758 (Landing)	Normal - Steady State	E1417	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS59	Tank 759L	Tank 759 (Landing)	Normal - Steady State	E2604	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS60	Tank 75D-1C	Tank 75D-1 (Cleaning)	Normal - Steady State	E2517	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS61	Tank 326C	Tank 326 (Cleaning)	Normal - Steady State	E2508	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS62	Tank 328C	Tank 328 (Cleaning)	Normal - Steady State	E2509	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS63	Tank 330C	Tank 330 (Cleaning)	Normal - Steady State	E2510	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS64	Tank 765C	Tank 765 (Cleaning)	Normal - Steady State	E2514	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS65	Tank 758C	Tank 758 (Cleaning)	Normal - Steady State	E1417	CD1798 (P) CD1799 (S)	PT1798 PT1799								
OS66	Tank 759C	Tank 759 (Cleaning)	Normal - Steady State	E2604	CD1798 (P) CD1799 (P)	PT1798 PT1799								
OS67	Tank 116	Tank 116 (Normal)	Normal - Steady State	E2602		PT2602		0.0	8,760.0					
OS68	Tank 116	Tank 116 (Landing)	Normal - Steady State	E2602	CD1798 (P) CD1799 (P)	PT2602		0.0	8,760.0					

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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.
OS69	Tank 116	Tank 116 (Cleaning)	Normal - Steady State	E2602	CD1798 (P) CD1799 (P)	PT2602		0.0	8,760.0					
OS70	Tank 28	Tank 28 (Normal)	Normal - Steady State	E2501		PT2501		0.0	8,760.0					
OS71	Tank 28	Tank 28 (Landing)	Normal - Steady State	E2501	CD1798 (P) CD1799 (P)	PT2501		0.0	8,760.0					
OS72	Tank 28	Tank 28 (Cleaning)	Normal - Steady State	E2501	CD1798 (P) CD1799 (P)	PT2501		0.0	8,760.0					

**U 19 Area H Equip Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment**

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	Area D 169NG	F-169P - 47.04 MMBtu/hr Hot Oil Heater firing natural gas	Normal - Steady State	E1602		PT1602		5,000.0	8,760.0					
OS9	Area D 170NG	F-170P - 47.04 MMBtu/hr Hot Oil Heater firing natural gas	Normal - Steady State	E1603		PT1603		5,000.0	8,760.0					
OS10	Area K 1100K	1100 kW Cummins Emergency Diesel Generator (11.5 MMBtu/hr)	Normal - Steady State	E2101		PT2101		25.0	500.0					

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**U 19 Area H Equip Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment**

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.
OS11	Area K 250KW	250 kW Kohler Emergency Diesel Generator (1.54 MMBtu/hr)	Normal - Steady State	E2102		PT2102		25.0	500.0					
OS12	198 kW CDP	198 kW Clarke Diesel Pump (1.95 MMBtu/hr)	Normal - Steady State	E2107		PT2107		25.0	500.0					
OS13	Area K 155KW	155 kW Cummins Emergency Diesel Pump (1.42 MMBtu/hr)	Normal - Steady State	E2104		PT2104		25.0	500.0					
OS14	Area K 172KW	172 kW Cummins Emergency Diesel Pump (1.68 MMBtu/hr)	Normal - Steady State	E2105		PT2105		25.0	500.0					
OS15	RAC	Rental Emergency Air Compressor (3 MMBtu/hr)	Normal - Steady State	E2106		PT2106		0.0	500.0					
OS16	Mix Tank A	Contractor - Mix Tank A	Normal - Steady State	E5001	CD5001 (P)	PT5001		300.0	2,080.0					
OS17	OWS A	Contractor - Oil Water Separator A	Normal - Steady State	E5002	CD5001 (P)	PT5001		300.0	2,080.0					
OS18	Frac Tank A	Contractor - Frac Tank A	Normal - Steady State	E5003	CD5001 (P)	PT5001		300.0	2,080.0					
OS19	Frac StorA1	Contractor - Frac Tank Storage Container A1	Normal - Steady State	E5004	CD5001 (P)	PT5001		300.0	2,080.0					
OS20	Frac StorA2	Contractor - Frac Tank Storage Container A2	Normal - Steady State	E5005	CD5001 (P)	PT5001		300.0	2,080.0					
OS21	Frac Stor A3	Contractor - Frac Tank Storage Container A3	Normal - Steady State	E5006	CD5001 (P)	PT5001		300.0	2,080.0					
OS22	Decant/CentA	Contractor - Decanter/Centrifuge A	Normal - Steady State	E5007	CD5001 (P)	PT5001		300.0	2,080.0					
OS23	Mix Tank B	Contractor - Mix Tank B	Normal - Steady State	E5011	CD5011 (P)	PT5011		300.0	2,080.0					

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**U 19 Area H Equip Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment**

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.
OS24	OWS B	Contractor - Oil Water Separator B	Normal - Steady State	E5012	CD5011 (P)	PT5011		300.0	2,080.0					
OS25	Frac Tank B	Contractor - Frac Tank B	Normal - Steady State	E5013	CD5011 (P)	PT5011		300.0	2,080.0					
OS26	Frac StorB1	Contractor - Frac Tank Storage Container B1	Normal - Steady State	E5014	CD5011 (P)	PT5011		300.0	2,080.0					
OS27	Frac StorB2	Contractor - Frac Tank Storage Container B2	Normal - Steady State	E5015	CD5011 (P)	PT5011		300.0	2,080.0					
OS28	Frac StorB3	Contractor - Frac Tank Storage Container B3	Normal - Steady State	E5016	CD5011 (P)	PT5011		300.0	2,080.0					
OS29	Decant/CentB	Contractor - Decanter/Centrifuge B	Normal - Steady State	E5017	CD5011 (P)	PT5011		300.0	2,080.0					
OS30	Mix Tank C	Contractor - Mix Tank C	Normal - Steady State	E5021	CD5021 (P)	PT5021		300.0	2,080.0					
OS31	OWS C	Contractor - Oil Water Separator C	Normal - Steady State	E5022	CD5021 (P)	PT5021		300.0	2,080.0					
OS32	Frac Tank C	Contractor - Frac Tank C	Normal - Steady State	E5023	CD5021 (P)	PT5021		300.0	2,080.0					
OS33	Frac Stor C1	Contractor - Frac Tank Storage Container C1	Normal - Steady State	E5024	CD5021 (P)	PT5021		300.0	2,080.0					
OS34	Frac Stor C2	Contractor - Frac Tank Storage Container C2	Normal - Steady State	E5025	CD5021 (P)	PT5021		300.0	2,080.0					
OS35	Frac Stor C3	Contractor - Frac Tank Storage Container C3	Normal - Steady State	E5026	CD5021 (P)	PT5021		300.0	2,080.0					
OS36	Decant/CentC	Contractor - Decanter/Centrifuge C	Normal - Steady State	E5027	CD5021 (P)	PT5021		300.0	2,080.0					
OS37	Mix Tank D	Contractor - Mix Tank D	Normal - Steady State	E5031	CD5031 (P)	PT5031		300.0	2,080.0					
OS38	OWS D	Contractor - Oil Water Separator D	Normal - Steady State	E5032	CD5031 (P)	PT5031		300.0	2,080.0					



**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
**BOP210001**

Date: 9/23/2022

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

**U 19 Area H Equip Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment**

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.
OS39	Frac Tank D	Contractor - Frac Tank D	Normal - Steady State	E5033	CD5031 (P)	PT5031		300.0	2,080.0					
OS40	Frac Stor D1	Contractor - Frac Tank Storage Container D1	Normal - Steady State	E5034	CD5031 (P)	PT5031		300.0	2,080.0					
OS41	Frac Stor D2	Contractor - Frac Tank Storage Container D2	Normal - Steady State	E5035	CD5031 (P)	PT5031		300.0	2,080.0					
OS42	Frac Stor D3	Contractor - Frac Tank Storage Container D3	Normal - Steady State	E5036	CD5031 (P)	PT5031		300.0	2,080.0					
OS43	Decant/CentD	Contractor - Decanter/Centrifuge D	Normal - Steady State	E5037	CD5031 (P)	PT5031		300.0	2,080.0					
OS44	Port BoilerA	Contractor - Portable Boiler A (4.2 MMBtu/hr)	Normal - Steady State	E5101		PT5101		0.0	500.0					
OS45	Port BoilerB	Contractor - Portable Boiler B (4.2 MMBtu/hr)	Normal - Steady State	E5102		PT5102		0.0	500.0					
OS46	Port A D1	Contractor - Portable Diesel Equipment A 1 (3.0 MMBtu/hr)	Normal - Steady State	E5201		PT5201		0.0	500.0					
OS47	Port A D2	Contractor - Portable Diesel Equipment A 2 (3.0 MMBtu/hr)	Normal - Steady State	E5202		PT5202		0.0	500.0					
OS48	Port A D3	Contractor - Portable Diesel Equipment A 3 (2.2 MMBtu/hr)	Normal - Steady State	E5203		PT5203		0.0	500.0					
OS49	Port A D4	Contractor - Portable Diesel Equipment A 4 (2.2 MMBtu/hr)	Normal - Steady State	E5204		PT5204		0.0	500.0					
OS50	Port A D5	Contractor - Portable Diesel Equipment A 5 (2.2 MMBtu/hr)	Normal - Steady State	E5205		PT5205		0.0	500.0					
OS51	Port A D6	Contractor - Portable Diesel Equipment A 6 (2.2 MMBtu/hr)	Normal - Steady State	E5206		PT5206		0.0	500.0					

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**U 19 Area H Equip Area H- Hot Oil Heaters, Emergency Generators, Contractor Sludge and Power Equipment**

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.
OS52	Port B D7	Contractor - Portable Diesel Equipment B 7 (1.88 MMBtu/hr)	Normal - Steady State	E5301		PT5301		0.0	500.0					
OS53	Port B D8	Contractor - Portable Diesel Equipment B 8 (1.88 MMBtu/hr)	Normal - Steady State	E5302		PT5302		0.0	500.0					
OS54	Port B D9	Contractor - Portable Diesel Equipment B 9 (1.88 MMBtu/hr)	Normal - Steady State	E5303		PT5303		0.0	500.0					
OS55	Port B D10	Contractor - Portable Diesel Equipment B 10 (1.88 MMBtu/hr)	Normal - Steady State	E5304		PT5304		0.0	500.0					
OS56	Port C D11	Contractor - Portable Diesel Equipment C 11 (1.92 MMBtu/hr)	Normal - Steady State	E5401		PT5401		0.0	500.0					
OS57	Port C D12	Contractor - Portable Diesel Equipment C 12 (1.92 MMBtu/hr)	Normal - Steady State	E5402		PT5402		0.0	500.0					
OS58	Port C D13	Contractor - Portable Diesel Equipment C 13 (1.92 MMBtu/hr)	Normal - Steady State	E5403		PT5403		0.0	500.0					
OS59	Bio Heater 1	One (1) 8 MMBtu/hr Hot Water Heater	Normal - Steady State	E5404		PT5404		0.0	8,760.0		1,800.0	3,000.0	200.0	400.0
OS60	Bio Heater 2	One (1) 8 MMBtu/hr Hot Water Heater	Normal - Steady State	E5405		PT5405		0.0	8,760.0		1,800.0	3,000.0	200.0	400.0

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**Emission Unit/Batch Process Inventory**

**U 20 Area J ETP Effluent Treatment Plant**

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	Area J Diver	#3 API Separator Diversion Box	Normal - Steady State	E2001		PT2001		5,000.0	8,760.0					
OS2	Area J Frbay	#3 API Separator Forebay	Normal - Steady State	E2002		PT2002		5,000.0	8,760.0					
OS3	Area J Separ	#3 API Separator	Normal - Steady State	E2003		PT2003		5,000.0	8,760.0					
OS4	Area J K9200	IAF Unit K-9200	Normal - Steady State	E2004		PT2004		5,000.0	8,760.0					
OS5	Area J K9201	IAF Unit K-9201	Normal - Steady State	E2005		PT2005		5,000.0	8,760.0					
OS6	Area J T9200	Equalization Tank T-9200	Normal - Steady State	E2006		PT2006		5,000.0	8,760.0					
OS7	Area J OWBin	Oily Water Bin	Normal - Steady State	E2007		PT2007		5,000.0	8,760.0					
OS8	Area J OlBin	Oil Bin	Normal - Steady State	E2008		PT2008		5,000.0	8,760.0					
OS9	Area J StwDB	Stormwater Diversion Box	Normal - Steady State	E2009		PT2009		5,000.0	8,760.0					
OS10	Area J T9201	Float Separation Tank T-9201	Normal - Steady State	E2010		PT2010		5,000.0	8,760.0					
OS11	Area J T9205	Sludge Mixing Tank T-9205	Normal - Steady State	E2011		PT2011		5,000.0	8,760.0					

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**Emission Unit/Batch Process Inventory**

**U 22 Additive Tks Seven Additive Tanks**

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	ADD1	Additive Tank 1	Normal - Steady State	E2201		PT2201	4-04-001-22	0.0	8,760.0				50.0	100.0
OS2	ADD2	Additive Tank 2	Normal - Steady State	E2202		PT2202	4-04-001-22	0.0	8,760.0				50.0	100.0
OS3	ADD3	Additive Tank 3	Normal - Steady State	E2203		PT2203	4-04-001-22	0.0	8,760.0				50.0	100.0
OS4	ADD4	Additive Tank 4	Normal - Steady State	E2204		PT2204	4-04-001-22	0.0	8,760.0				50.0	100.0
OS5	ADD5	Additive Tank 5	Normal - Steady State	E2205		PT2205	4-04-001-22	0.0	8,760.0				50.0	100.0
OS6	ADD6	Additive Tank 6	Normal - Steady State	E2206		PT2206	4-04-001-22	0.0	8,760.0				50.0	100.0
OS7	ADD7	Additive Tank 7	Normal - Steady State	E2207		PT2207	4-04-001-22	0.0	8,760.0				50.0	100.0

**U 24 Area F Lding Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX**

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	Area F Lding	Light Product Loading	Normal - Steady State	E2402	CD2401 (P)	PT2401			8,760.0					
OS2	Area F Lding	Distillate Product Loading	Normal - Steady State	E2402	CD2401 (P)	PT2401		0.0	8,760.0					

**BUCKEYE PERTH AMBOY TERMINAL LLC (18058)**  
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**New Jersey Department of Environmental Protection**  
**Emission Unit/Batch Process Inventory**

**U 24 Area F Lding Loading Racks subject to MACT Subpart A & Subpart R and NSPS Subpart A & Subpart XX**

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.
OS3	Area F Lding	Light Product Loading (back up VCU)	Normal - Steady State	E2402	CD1798 (P)	PT1798			100.0					
OS4	Area F Lding	Distillate Product Loading (back up VCU)	Normal - Steady State	E2402	CD1798 (P)	PT1798		0.0	100.0					

**U 25 Area B-I <1 Group II B - I Storage Tanks < 1.0 psia**

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.
OS11	Area B V-723	Storage Tank 723 Cone Roof, 30,000gal., <1.0 psia	Normal - Steady State	E2511		PT2511		5,000.0	8,760.0					
OS15	Area B 775	Storage Tank 775 Cone Roof, 200,000 gal., < 1.0 psia	Normal - Steady State	E2515		PT2515		5,000.0	8,760.0					
OS16	Area B 776	Storage Tank 776 Cone Roof, 216,000 gal., < 1.0 psia	Normal - Steady State	E2516		PT2516		5,000.0	8,760.0					
OS28	Maintenance	Storage Tank V-723 - Maintenance (Tank Opening, Cleaning)	Maintenance	E2511		PT2511								
OS32	Maintenance	Storage Tank 775 - Maintenance (Tank Opening, Cleaning)	Maintenance	E2515		PT2515								

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**U 25 Area B-I <1 Group II B - I Storage Tanks < 1.0 psia**

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.
OS33	Maintenance	Storage Tank 776 - Maintenance (Tank Opening, Cleaning)	Maintenance	E2516		PT2516								

**U 27 OWS Oil Water Separator**

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	OWS	Oil Water Separator	Normal - Steady State	E2701		PT2701	4-04-001-22	0.0	8,760.0				50.0	100.0

**New Jersey Department of Environmental Protection  
Subject Item Group Inventory**

**Group NJID:** GR1 IFR 16.2

**Members:**

Type	ID	OS	Step
U	U 12	OS0 Summary	
U	U 13	OS0 Summary	
U	U 17	OS0 Summary	
U	U 25	OS0 Summary	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** common req

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

**Operating Circumstances:**

Date: 9/23/2022

**New Jersey Department of Environmental Protection  
Subject Item Group Inventory**

**Group NJID:** GR2 EFR 16.2

**Members:**

Type	ID	OS	Step
U	U 17	OS46 Tank 75D-1	
U	U 17	OS47 Tank 326	
U	U 17	OS50 Tank 765	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** common req

**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:** GR3 NSPSSubpartA

**Members:**

Type	ID	OS	Step
U	U 12	OS0 Summary	
U	U 17	OS0 Summary	
U	U 19	OS0 Summary	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** COMMON REQ

**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:** GR4 MACTSUBPARTA

**Members:**

Type	ID	OS	Step
U	U 10	OS0 Summary	
U	U 11	OS0 Summary	
U	U 12	OS0 Summary	
U	U 17	OS0 Summary	
U	U 19	OS0 Summary	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):**

**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:** GR5 MACTZZZZ

**Members:**

Type	ID	OS	Step
U	U 19	OS11 Area K 250KW	
U	U 19	OS12 198 kW CDP	
U	U 19	OS13 Area K 155KW	
U	U 19	OS14 Area K 172KW	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** common requirements <500hp

**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:** GR6 MACTDDDDDD

**Members:**

Type	ID	OS	Step
U	U 19	OS59 Bio Heater 1	
U	U 19	OS60 Bio Heater 2	
U	U 19	OS8 Area D 169NG	
U	U 19	OS9 Area D 170NG	

**Formal Reason(s) for Group/Cap:**

☒ Other

**Other (explain):** common MACTDDDDDD

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

**Operating Circumstances:**