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

PHILIP D. MURPHY
*Governor*

SHEILA Y. OLIVER
*Lt. Governor*

SHAWN M. LATOURETTE
*COMMISSIONER*

# Air Pollution Control Operating Permit
# Renewal with Significant Modification

**Permit Activity Number: BOP180001** **Program Interest Number: 41722**

| Mailing Address | Plant Location |
|---|---|
| ROY G. TAYLOR<br>GENERAL MANAGER NE OPERATIONS<br>ENBRIDGE<br>890 WINTER ST - STE 300<br>WALTHAM , MA 02451 | LINDEN COMPRESSOR STATION<br>Lower Rd & Range Dr<br>Linden<br>Union County |
| | |

**Initial Operating Permit Approval Date:** **11/15/1999**

**Operating Permit Approval Date:** **PROPOSED**

**Operating Permit Expiration Date:** **11/14/2024 (Operating Under Application Shield)**

## AUTHORITY AND APPLICABILITY

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

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

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

## PERMIT SHIELD

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

## COMPLIANCE SCHEDULES

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

## COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

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

**ACCESSING PERMITS**

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

**HELPLINE**

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

**RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD**

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

**COMPLIANCE ASSURANCE MONITORING**

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

**ADMINISTRATIVE HEARING REQUEST**

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

If you have any questions regarding this permit approval, please call Nipul Patel at (609) 777-2858.

Approved by:

_____

Shafi Ahmed

Enclosure

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

**Facility Name: LINDEN COMPRESSOR STATION**
**Program Interest Number: 41722**
**Permit Activity Number: BOP180001**

## TABLE OF CONTENTS


**Section A** POLLUTANT EMISSIONS SUMMARY

**Section B** GENERAL PROVISIONS AND AUTHORITIES

**Section C** STATE-ONLY APPLICABLE REQUIREMENTS

**Section D** FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

- FACILITY SPECIFIC REQUIREMENTS – PAGE INDEX
- REASON FOR APPLICATION
- FACILITY SPECIFIC REQUIREMENTS (COMPLIANCE PLAN)
- FACILITY PROFILE (ADMINISTRATIVE INFORMATION)
- NON-SOURCE FUGITIVE EMISSIONS
- INSIGNIFICANT SOURCE EMISSIONS
- EQUIPMENT INVENTORY
- EQUIPMENT DETAILS
- EMISSION POINT INVENTORY
- EMISSION UNIT / BATCH PROCESS INVENTORY

## Section A

## Facility Name: LINDEN COMPRESSOR STATION
## Program Interest Number: 41722
## Permit Activity Number: BOP180001

## POLLUTANT EMISSIONS SUMMARY

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

| Facility's Potential Emissions from all Significant Source Operations (tons per year) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Source Categories | VOC (total) | $NO_x$ | CO | $SO_2$ | TSP (total) | $PM_{10}$ (total) | $PM_{2.5}$ (total) | Pb | HAPs* (total) | $CO_2e$[2] |
| Emission Units Summary | 89.18 | 148.88 | 213.96 | NA | 12.31 | 12.31 | 12.31 | N/A | 42.41 | |
| 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 | 89.18 | 148.88 | 213.96 | N/A | 12.31 | 12.31 | 12.31 | N/A | 42.41 | 58,823 |

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

| Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Source Categories | VOC (total) | $NO_x$ | CO | $SO_2$ | TSP (total) | $PM_{10}$ (total) | $PM_{2.5}$ (total) | Pb | HAPs (total) |
| Insignificant Source Operations | 4.001 | 0.076 | 0.064 | 0.001 | 0.006 | 0.006 | N/A | N/A | 0.0151 |
| Non-Source Fugitive Emissions[3] | 7.86 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

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

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total $CO_2e$ emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.
[3] Non-Source Fugitive Emissions are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

## Section A

## Facility Name: LINDEN COMPRESSOR STATION
## Program Interest Number: 41722
## Permit Activity Number: BOP180001

## POLLUTANT EMISSIONS SUMMARY

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

| HAP | TPY |
|---|---|
| Acetaldehyde | 4.89 |
| Acrolein | 0.492 |
| Benzene | 1.23 |
| Butadiene | 0.519 |
| Carbon tetrachloride | 0.0128 |
| Chloroform | 0.00992 |
| 1,3-dichloropropene | 0.00923 |
| Ethylbenzene | 0.0228 |
| Ethylene Dibromide | 0.046 |
| Formaldehyde | 34.8 |
| Naphthalene | 0.0203 |
| PAH | 0.0282 |
| 1,1,2,2-tetrachloroethane | 0.014 |
| 1,1,2-trichloroethane | 0.0111 |
| Vinyl chloride | 0.0052 |

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

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

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

## Section B

## Facility Name: LINDEN COMPRESSOR STATION
## Program Interest Number: 41722
## Permit Activity Number: BOP180001

## GENERAL PROVISIONS AND AUTHORITIES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

25. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

## Section C

## Facility Name: LINDEN COMPRESSOR STATION
## Program Interest Number: 41722
## Permit Activity Number: BOP180001

# STATE-ONLY APPLICABLE REQUIREMENTS

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

**STATE-ONLY APPLICABLE REQUIREMENTS**

The following applicable requirements are not federally enforceable:

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

## Section D

## Facility Name: LINDEN COMPRESSOR STATION
## Program Interest Number: 41722
## Permit Activity Number: BOP180001

# FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

### FACILITY SPECIFIC REQUIREMENTS PAGE INDEX


**Subject Item and Name** — **Page Number**

**Facility (FC):**

**FC** 1

**Non-Source Fugitive Emissions (FG):**

| FG NJID | FG Description | |
|---|---|---|
| FG1 | Emissions from pipe fittings | 7 |

**Insignificant Sources (IS):**

| IS NJID | IS Description | |
|---|---|---|
| IS1 | Modine Gas Fired Heater (<1 MMBTU/hr) | 8 |
| IS2 | GR-Station Blowdown | 8 |
| IS3 | GR-Pipeline Blowdown | 8 |
| IS4 | GR-Recip Rodpacking Vent (3, one per engine) | 8 |
| IS5 | GR-Recip Engine Case Vent Separator Valve Leakage | 8 |
| IS6 | 27A2 (3,300-gal Engine Oil Storage Tank) | 8 |
| IS7 | 27A2-TL (13,200 gal/yr Engine Oil Storage Tank Loading Area) | 8 |
| IS8 | V5-308-TL (8,000 gal/yr Pipeline Liquids Loading Area) | 8 |
| IS9 | 27A3 (1,500-gal Engine Coolant Storage Tank) | 8 |
| IS10 | 27A3-TL (8,000 gal/yr Coolant Truck Loading Area) | 8 |
| IS18 | GR-Pipeline Receiver Blowdown Separator | 9 |

**Emission Units (U):**

| U NJID | U Designation | U Description | |
|---|---|---|---|
| U1 | RICE Engine1 | 2-Stroke Reciprocating Engine (E1), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30299 | 10 |
| U2 | RICE Engine2 | 2-Stroke Reciprocating Engine (E2), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30300 | 22 |
| U3 | RICE Engine3 | 2-Stroke Reciprocating Engine (E3), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30301 | 23 |
| U5 | AST V5-308 | V5-308 Above Ground 2940 Gallon Storage Tank (Natural Gas Pipeline Condensate) | 24 |
| U6 | V1-308 | Blow-down Device V1-308 (Compressor/Station Blowdown and Purge) | 26 |

| | | | |
|---|---|---|---|
| U7 | CAT EG | Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr, Subject to MACT Subpart ZZZZ | 30 |
| U8 | LIND PL | Linden Pipeline Liquids Storage | 40 |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

# New Jersey Department of Environmental Protection
# Reason for Application

## Permit Being Modified

**Permit Class:** BOP **Number:** 190003

**Description of Modifications:** Texas Eastern Transmission, L.P. (Texas Eastern) is submitting this significant modification application for a natural gas compressor station in Linden, Union County, New Jersey (Linden Compressor Station) to update emission estimates for piping components, gas releases, and existing insignificant sources. These updates are being made to reconcile permitted emissions with the current methodology used by Enbridge (Texas Eastern's parent company) to estimate potential emissions for permitting purposes.

In addition, Texas Eastern evaluated potential HAP emissions against the new reporting thresholds in Subchapter 17. As a result, this modification requests that the following HAPs be added to the permit for the reciprocating engines in U1, U2 and U3.

U1/U2/U3 OS Summary:
Carbon tetrachloride <=0.0128 tpy
Chloroform <=0.00992 tpy
1,3-dichloropropene <=0.00923 tpy
Ethylbenzene <=0.0228 tpy
Naphthalene <=0.0203 tpy
PAH <=0.0282 tpy
1,1,2,2-tetrachloroethane <=0.014 tpy
1,1,2-trichloroethane <=0.0111 tpy
Vinyl chloride <=0.0052 tpy

U1/U2/U3 OS1:
Carbon tetrachloride <=0.00307 lb/hr
Chloroform <=0.00238 lb/hr
1,3-dichloropropene <=0.00221 lb/hr
Ethylbenzene <=0.00545 lb/hr
Naphthalene <=0.00486 lb/hr
PAH <=0.00677 lb/hr
1,1,2,2-tetrachloroethane <=0.00335 lb/hr
1,1,2-trichloroethane <=0.00266 lb/hr
Vinyl chloride <=0.00125 lb/hr

Additional details regarding the proposed significant modification application including revised PTE calculations, regulatory applicability, netting analysis, and air toxics modeling protocol are included in the submitted application.

Texas Eastern is also requesting an administrative revision to the facility responsible official as listed in the Facility Profile (General) section of this application.

# 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. |

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

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

## 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] |

## 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.<br><br>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.<br>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.<br><br>The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22] |
| 14 | Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2] | None. | None. | Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)] |
| 15 | Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68] | Other: Comply with 40 CFR 68. [40 CFR 68]. | Other: Comply with 40 CFR 68. [40 CFR 68]. | Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68] |

## 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.<br><br>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.<br><br>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. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 21 | If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing 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. |

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

**Subject Item:** **FG1 Emissions from pipe fittings**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | The permittee shall prepare a control measure plan for VOC emission reductions from a blowdown event, in accordance with N.J.A.C.7:27-16.21(a)1 and 2. [N.J.A.C. 7:27-16.21(a)] | None. | Other: Blowdown event (Natural Gas): A copy of the Control Measure Plan shall be maintained at the office having operating responsibility for the section of pipeline for which the blowdown event will occur. A copy of such plan will be provided to the Department within three days of receipt of a written request from the Department.[N.J.A.C. 7:27-16.21(d)]. | None. |
| 2 | Blowdown event (Natural Gas): On or before March 1 of each year, submit a report to the Chief, Bureau of Field Operations, of each blowdown event that occured during the preceding year. A "blowdown event" means the non-emergency release of natural gas from a pipeline for the purposes of inspection, maintenance, or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)] | None. | Other: Blowdown event (Natural Gas): On or before March 1 of each year, submit a report to the Chief, Bureau of Field Operations, of each blowdown event that occured during the preceding year. A "blowdown event" means the non-emergency release of natural gas from a pipeline for the purposes of inspection, maintenance, or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. The blowdown event report must include the location , date and duration of each blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event.[N.J.A.C. 7:27-16.21(c)]. | Submit a report: Annually. [N.J.A.C. 7:27-16.21(c)]. |
| 3 | Blowdown event (Natural Gas): A copy of the Control Measure Plan required by N.J.A.C. 7.27-16.21 (a) shall be maintained at the office having operating responsibility for the section of pipeline for which the blowdown event will occur. A copy of such plan will be provided to the Department within three days of receipt of a written request from the Department. [N.J.A.C. 7:27-16.21(d)] | None. | None. | Submit documentation of compliance: As per the approved schedule , submit copy of Control Measure Plan within three days of receipt of a written request from the Department. [N.J.A.C. 7:27-16.21(d)] |

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

**Subject Item:** **IS3 GR-Pipeline Blowdown**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | The permittee shall submit a report of each pipeline blowdown event to the Northern Regional Enforcement Office.<br><br>A "blowdown event" is defined as the non-emergency release of natural gas from a pipeline for the purpose of inspection, maintenance or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)] | None. | Other: The permittee shall maintain a copy of the Control Measure Plan required by N.J.A.C. 7:27-16.21(a) at the office having operating responsibility for the section of pipeline in which the blowdown event(s) will occur. A copy of such plan shall be provided to the Department within three days of receipt of a written request from the Department.[N.J.A.C. 7:27-16.21(d)]. | Submit a report: Annually before March 1. The report should include the location, date, and duration of each pipeline blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event. [N.J.A.C. 7:27-16.21(c)] |

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

**Subject Item:** **IS18 GR-Pipeline Receiver Blowdown Separator**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | The permittee shall submit a report of each pipeline blowdown event to the Northern Regional Enforcement Office.<br><br>A "blowdown event" is defined as the non-emergency release of natural gas from a pipeline for the purpose of inspection, maintenance or repair and where, in the absence of control, more than 2,000 pounds of VOC could be released to the atmosphere. [N.J.A.C. 7:27-16.21(c)] | None. | Other: The permittee shall maintain a copy of the Control Measure Plan required by N.J.A.C. 7:27-16.21(a) at the office having operating responsibility for the section of pipeline in which the blowdown event(s) will occur. A copy of such plan shall be provided to the Department within three days of receipt of a written request from the Department.[N.J.A.C. 7:27-16.21(d)]. | Submit a report: Annually before March 1. The report should include the location, date, and duration of each pipeline blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event. [N.J.A.C. 7:27-16.21(c)] |

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

**Emission Unit:** **U1 2-Stroke Reciprocating Engine (E1), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30299, U2 2-Stroke Reciprocating Engine (E2), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30300, U3 2-Stroke Reciprocating Engine (E3), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30301**

**Operating Scenario:** **OS Summary**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | STACK TESTING SUMMARY:<br><br>If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing, remain enforceable until the operating permit is reissued.<br>[N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)] | Other: The stack test must be conducted either within 180 days from the date of the approved initial operating permit OR, for new or modified source, within 180 days after initial startup of the new or modified source or within 60 days of approval of a timely submitted protocol, whichever comes later.<br><br>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA. [N.J.A.C. 7:27-22.18] and<br>[N.J.A.C. 7:27-22.16(o)]. | Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]. | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit.<br><br>The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.<br><br>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).<br><br>The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 2 | RENEWAL STACK TESTING SUMMARY:<br><br>The permittee shall conduct a stack test no later than every five years (see General Provisions) from the last stack test using an approved protocol to demonstrate compliance with emission limits for NOx, CO and Formaldehyde as specified in the compliance plan for applicable OS1.<br><br>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.<br>[N.J.A.C. 7:27-22.16(a)] | Other: Monitoring as required under the applicable operating scenario(s).<br><br>PERMITTEES OPERATING AFTER EXPIRATION DATE OF THE OPERATING PERMIT SHALL FOLLOW THE STACK TESTING SCHEDULE AS SPECIFIED.[N.J.A.C. 7:27-22.16(o)]. | Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]. | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 12 months prior to the completion of the five year period since the last stack test.<br><br>The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: https://www.epa.gov/chief. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.<br><br>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).<br><br>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<br>. [N.J.A.C. 7:27-22.18(h)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 3 | Natural Gas Usage <= 166.01 MMft^3 during any consecutive 12 month period for the engine.<br><br>Cubic feet of natural gas 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 11months. This procedure will begin with the first full month following the final issuance of the Operating Permit. This accounting will not include fuel consumed during months prior to the approval of the Operating Permit. The permittee will select the time period for the accounting, such as fiscal month, calendar month or production month. Once selected, the period must not be changed without prior approval from the NJDEP. [N.J.A.C. 7:27-22.16(a)] | Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)] | Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage each month during operation. [N.J.A.C. 7:27-22.16(o)] | None. |
| 4 | CO <= 71.1 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | NOx (Total) <= 49.5 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | VOC (Total) <= 25.3 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | TSP <= 4.1 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 8 | PM-10 (Total) <= 4.1 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 9 | HAPs (Total) <= 14 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | Acetaldehyde <= 1.63 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 11 | Benzene <= 0.409 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 12 | Acrolein <= 0.164 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 13 | Butadiene (1,3-) <= 0.173 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 14 | Carbon tetrachloride <= 0.0128 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 15 | Chloroform <= 0.0099 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 16 | Dichloropropene (1,3-), Total <= 0.00923 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 17 | Ethylbenzene <= 0.0228 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 18 | Ethylene dibromide <= 0.0155 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 19 | Formaldehyde <= 11.6 tons/yr for the engine based on 166.01 MMft^3 during any consecutive 12 month period. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 20 | Naphthalene <= 0.0203 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 21 | Polynuclear aromatic hydrocarbons (PAHs) <= 0.0282 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 22 | Tetrachloroethane (1,1,2,2-) <= 0.014 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 23 | Trichloroethane (1,1,2) <= 0.0111 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 24 | Vinyl chloride <= 0.0052 tons/yr. [N.J.A.C. 7:27-17] | None. | None. | None. |
| 25 | Stack Height Above Ground >= 62 Feet for emission points PT1 through PT3, based on the results of the 2nd level risk screening performed in 2021. Stack height shall be extended within eighteen (18) months from the date of approved permit. [N.J.A.C. 7:27-22.16(a)] | Stack Height Above Ground: Monitored by documentation of construction once initially. [N.J.A.C. 7:27-22.16(o)] | Other: maintain documentation of construction[N.J.A.C. 7:27-22.16(o)]. | None. |

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

**Emission Unit:** **U1 2-Stroke Reciprocating Engine (E1), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30299**

**Operating Scenario:** **OS1 Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30299**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | Opacity <= 20 %. Smoke emissions from stationary internal combustion engines no greater than 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 2 | Opacity <= 10 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds, except startup and shutdowns periods. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | Particulate Emissions <= 7.87 lb/hr from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 4 | CO <= 500 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.10(b)] | CO: Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee conducting periodic emission monitoring for NOx, CO and O2 shall meet the requirements specified in NJDEP Technical Manual 1005 Guidelines for Continuous Emissions Monitoring Systems (CEMS), Continuous Opacity Monitoring Systems (COMS), Periodic Monitoring Procedures (PMPs), and Annual Combustion Adjustments (ACAs), posted on AQPP webpage, at http://www.state.nj.us/dep/aqpp/downloads/techman/1005%20June%201%202010%20Final.pdf.<br><br>The minimum duration between PMP tests shall be 45 calendar days. If the PMP test result exceeds the permit limit, the permittee shall do the following:<br><br>Verify that the equipment and/or control device is operating according to manufacturer's 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 and repeat the PMP testing within 24 hours. The PMP test shall be repeated each day during operation until compliance with both NOx and CO emission limits is achieved. [N.J.A.C. 7:27-16.10(b)] | CO: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:<br><br>(1) Date and time of PMP;<br>(2) PMP results and calculations in accordance with the procedure specified in latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;<br>(3) Description of corrective action taken if needed;<br>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-16(10)(b)] and. [N.J.A.C. 7:27-22.16(a)] | None. |
| 5 | CO <= 500 ppmvd @ 15% O2. [N.J.A.C. 7:27-16.10(b)] | CO: Monitored by stack emission testing once initially and prior to permit renewal, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)] | CO: Recordkeeping by stack test results once initially and prior to permit renewal. [N.J.A.C. 7:27-22.16(o)] | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 6 | NOx (Total) <= 2.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(b)] | NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-19.15] | NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-19.15] | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)] |
| 7 | NOx (Total) <= 2.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(a)] | NOx (Total): Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee conducting periodic emission monitoring for NOx, CO and O2 shall meet the requirements specified in NJDEP Technical Manual 1005 Guidelines for Continuous Emissions Monitoring Systems (CEMS), Continuous Opacity Monitoring Systems (COMS), Periodic Monitoring Procedures (PMPs), and Annual Combustion Adjustments (ACAs), posted on AQPP webpage, at http://www.state.nj.us/dep/aqpp/downloads/techman/1005%20June%201%202010%20Final.pdf.<br><br>The minimum duration between PMP tests shall be 45 calendar days. If the PMP test result exceeds the permit limit, the permittee shall do the following:<br><br>Verify that the equipment and/or control device is operating according to manufacturer's 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 and repeat the PMP testing within 24 hours. The PMP test shall be repeated each day during operation until compliance with both NOx and CO emission limits is achieved. [N.J.A.C. 7:27-22.16(o)] | NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retain the following records:<br><br>(1) Date and time of PMP;<br>(2) PMP results and calculations in accordance with the procedure specified in latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;<br>(3) Description of corrective action taken if needed;<br>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-16(10)(b)] and. [N.J.A.C. 7:27-22.16(a)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 8 | NOx (Total) <= 11.9 lb/hr . [N.J.A.C. 7:27-22.16(a)] | NOx (Total): Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)] | NOx (Total): Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)] | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)] |
| 9 | CO <= 17 lb/hr. [N.J.A.C. 7:27-22.16(a)] | CO: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)] | CO: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)] | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)] |
| 10 | VOC (Total) <= 6.05 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | TSP <= 0.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | PM-10 (Total) <= 0.98 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | Acetaldehyde <= 0.39 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Acrolein <= 0.039 lb/hr. [N.J.A.C. 7:27-22] | None. | None. | None. |
| 15 | Benzene <= 0.098 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 16 | Butadiene (1,3-) <= 0.041 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 17 | Chloroform <= 0.00238 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 18 | Carbon tetrachloride <= 0.00307 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 19 | Dichloropropene (1,3-), Total <= 0.00221 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 20 | Ethylbenzene <= 0.00545 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 21 | Ethylene dibromide <= 0.0037 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 22 | Formaldehyde <= 2.79 lb/hr. [N.J.A.C. 7:27-22.16(a)] | Formaldehyde: Monitored by stack emission testing every 5 years (based on completion date of the last stack test), based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)] | Formaldehyde: Recordkeeping by stack test results every 5 years (based on completion date of the last stack test). [N.J.A.C. 7:27-22.16(o)] | Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(o)] |

U1 2-Stroke Reciprocating Engine (E1), Lean Burn, Natural Gas Fired, 2153

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 23 | Naphthalene <= 0.00486 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 24 | Polynuclear aromatic hydrocarbons (PAHs) <= 0.00677 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 25 | Tetrachloroethane (1,1,2,2-) <= 0.00335 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 26 | Trichloroethane (1,1,2) <= 0.00266 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 27 | Vinyl chloride <= 0.00125 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 28 | Maximum Gross Heat Input <= 20.3 MMBTU/hr (HHV) Maximum peak gross heat input from operating permit application:. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 29 | Fuel type limited to natural gas. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 30 | Maintain and operate an automatic air/fuel ratio controller at all times the engine is operating. [N.J.A.C. 7:27-22.16(a)] | Monitored by air-to-fuel monitoring device continuously. [N.J.A.C. 7:27-22.16(a)] | Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(a)] | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 31 | Combustion Adjustment: Adjust the combustion process according to manufacturer's recommended procedures and maintenance schedules. Record NOx and CO concentrations before and after each adjustment and the O2 concentration at which NOx and CO were measured. N.J.A.C. 7:27-19.8 and [N.J.A.C. 7:27-19.16(g)] | Monitored by periodic emission monitoring at the manufacturer's specified frequency or at least annually. [N.J.A.C. 7:27-22.16(o)] | Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The owner or operator shall record the following information for each adjustment:<br><br>1. The date of the adjustment and the times at which it began and ended;<br><br>2. The name, title and affiliation of the person who made the adjustment;<br><br>3. The type of procedure and maintenance performed;<br><br>4. The concentration of NOx, CO and O2 measured before and after the adjustment was made; and<br><br>5. The type and amount of fuel used over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)] | None. |
| 32 | The Permittee 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: Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment.[N.J.A.C. 7:27-22.16(o)]. | Other: Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted.[N.J.A.C. 7:27-19.16(e)]. | |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 33 | On or before March 1 of each year, submit a report to the Central Regional Office, of each blowdown event that occurred during the preceding year. On or before March 1 of each year the owner or operator of each natural gas pipeline shall submit a report to Central Regional Enforcement Office, Mail Code 22-03A, 401 East State Street, PO Box 420, Trenton, NJ 08625-0420 setting forth the location, date, and duration of each blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event. For the purposes of this requirement, a "blowdown event" means the non-emergency release of natural gas from a pipeline for the purposes of inspection, maintenance, or repair and where in the absence of control, more than 2000 pounds of VOC could be released to the atmosphere. The blowdown event report must include the location, date and duration of each blowdown event, a description of the emissions reduction procedures and technology used, and a quantification of the amount of VOC emission reductions achieved for each event. [N.J.A.C. 7:27-16.21(c)] | None. | None. | Submit a report: As per the approved schedule. Submit annual report to Central Regional Office before March 1 of each year. [N.J.A.C. 7:27-16.21(c)] |
| 34 | A copy of the Control Measure Plan required by N.J.A.C, 7:27-16.21(a) shall be maintained at the office having operating responsibility for the section of the pipeline for which the blowdown event will occur. A copy of such plan will be provided to the Department within three days of receipt of a written request from the Department. [N.J.A.C. 7:27-16.21(d)] | None. | None. | None. |

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

**Emission Unit:** **U2 2-Stroke Reciprocating Engine (E2), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30300**

**Operating Scenario:** **OS1 Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30300**

The requirements for this item are identical to those for: U1 OS1

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

**Emission Unit:** **U3 2-Stroke Reciprocating Engine (E3), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30301**

**Operating Scenario:** **OS1 Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30301**

The requirements for this item are identical to those for: U1 OS1

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

**Emission Unit:** **U5 V5-308 Above Ground 2940 Gallon Storage Tank (Natural Gas Pipeline Condensate)**
**Operating Scenario:** **OS Summary**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC storage tank > 2000 gallons (7,570 liters), the external surface of the tank exposed to the sun rays shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1] | Monitored by visual determination prior to permit expiration date. [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. [N.J.A.C. 7:27-22.16(o)] | None. |
| 2 | VOC: The owner or operator shall maintain on-site, for each tank, 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] | None. | Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Records may also be manually logged in a permanently bound log book. [N.J.A.C. 7:27-16.2(k)] | None. |
| 3 | Design Capacity <= 2,940 gallons. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | Tank content limited to natural gas pipeline condensate. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 5 | Total Throughput <= 8,000 gal/yr. Permittee's self-imposed annual throughput limit. [N.J.A.C. 7:27-22.16(e)] | Total Throughput: Monitored by material feed/flow monitoring each month during operation. [N.J.A.C. 7:27-22.16(o)] | Total Throughput: Recordkeeping by data acquisition system (DAS) / electronic data storage at the approved frequency. Record date and amount of each transfer from the tank by utilizing waste manifest and shipping records. [N.J.A.C. 7:27-22.16(e)] | None. |
| 6 | VOC (Total) <= 0.212 tons/yr. [N.J.A.C. 7:27-22.16(a)] | VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)] | None. |
| 7 | HAPs (Total) <= 0.00319 tons/yr. [N.J.A.C. 7:27-22.16(a)] | HAPs (Total): Monitored by calculations once initially. [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 initial calculations only. [N.J.A.C. 7:27-22.16(o)] | None. |
| 8 | Benzene <= 0.00319 tons/yr. [N.J.A.C. 7:27-22.16(a)] | Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | Benzene: 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. |

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

**Emission Unit:** **U5 V5-308 Above Ground 2940 Gallon Storage Tank (Natural Gas Pipeline Condensate)**
**Operating Scenario:** **OS1 Aboveground 2940 gallon storage tank**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC (Total) <= 7.573 lb/hr. [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. |
| 2 | Benzene <= 0.114 lb/hr. [N.J.A.C. 7:27-22.16(a)] | Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | Benzene: 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. |

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

**Emission Unit:** **U6 Blow-down Device V1-308 (Compressor/Station Blowdown and Purge)**
**Operating Scenario:** **OS Summary**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | Maximum amount of waste gas vented through V1-308 <=1,861,806 scf/yr as the result of natural gas blowdown and air purges associated with the compressors and station yard piping/equipment. [N.J.A.C. 7:27-22.16(a)] | Monitored by calculations upon occurrence of event : 1. The volume of gas released from each blowdown shall be calculated using the ideal gas law:<br><br>Vf = Vi (Pi/Pf) (Tf/Ti) (Zf/Zi), where Z is estimated using the following equation:<br>Z = 0.9994 - 0.0002P + 3E-08P2.<br><br>and where P = Pressure, V = Volume, T= Temperature, i = initial, f = final, Z = expansion adjustment factor.<br><br>2. The volume of gas released from each purge shall be calculated using the following equation:<br><br>V = Cd * A* Vc * Fp * Ft * Fz * Fopen * Fvt, where<br><br>Cd = discharge coefficient, A = area ft2, Vc = critical velocity ft/sec, Fp = Pressure adustment factor, Ft = Temperature adjustment factor, Fz = Expansion adjustment factor, Fopen = fractional amount valve is open, and Fvt = valve type. [N.J.A.C. 7:27-22.16(e)] | Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. For each blowdown event, record: (a) source control vessel ID, (b) gas release source ID, (c) gas release source type, (d) gas release type, (e) date, (f) time, (g) duration of the event, (h) initial pressure, and (i) final pressure. For each purge event, record (a) through (g), noted above, and (h) purge gas pressure. Records may also be manually logged in a permanently bound log book. [N.J.A.C. 7:27-22.16(e)] | None. |
| 2 | VOC (Total) <= 1.04 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | HAPs (Total) <= 0.073 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | Benzene <= 0.0088 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 5 | Opacity <= 20 % , exclusive of water vapor, except for a period of not longer than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)] | None. | None. | None. |
| 6 | Equipment shall not be used in a manner which will cause visible emissions, exclusive of water vapor, for more than 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 7 | Except in the case of emergencies or process anomalies, blowdown and purge of compressors and station yard piping shall only occur for routine maintenance activities, not because equipment is idle. Pressure hold operating procedures shall be in place while compressors are idle. [N.J.A.C. 7:27-22.16(a)] | None. | Recordkeeping by data acquisition system (DAS) / electronic data storage quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. When pressure hold operating measures are in place, record (a) affected compressor unit(s), (b) date(s), (c) duration of idle, (d) operating pressure while pressure hold measures are in place, and (e) any maintenance or replacement of the compressor packing material. Records may also be manually logged in a permanently bound log book. [N.J.A.C. 7:27-22.16(o)] | None. |

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

**Emission Unit:** **U6 Blow-down Device V1-308 (Compressor/Station Blowdown and Purge)**
**Operating Scenario:** **OS1 Blowdown/Purge of Compressor**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)] | None. | None. | None. |
| 2 | VOC (Total) <= 30.44 lb /blowdown event/compressor. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | HAPs (Total) <= 2.14 lb /blowdown event/compressor. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | Benzene <= 0.26 lb /blowdown event/compressor. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

**Emission Unit:** **U6 Blow-down Device V1-308 (Compressor/Station Blowdown and Purge)**
**Operating Scenario:** **OS2 Blowdown/Purge of Station Yard Piping**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | Particulate Emissions <= 0.5 lb/hr. [N.J.A.C. 7:27- 6.2(a)] | None. | None. | None. |
| 2 | VOC (Total) <= 556 lb /blowdown event for station yard piping. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | TSP <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | PM-10 (Total) <= 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | HAPs (Total) <= 39.1 lb /blowdown event for station yard piping. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | Benzene <= 4.7 lb /blowdown event for station yard piping. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

**Emission Unit:** **U7 Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr, Subject to MACT Subpart ZZZZ**
**Operating Scenario:** **OS Summary**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | Summary of Federal Rules:<br><br>* MACT 40 CFR 63, Subpart A - General Provisions<br><br>* NESHAP 40 CFR 63, Subpart ZZZZ - for Stationary Reciprocating Internal Combustion Engines [40 CFR Federal Rules Summary] | None. | None. | None. |
| 2 | Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5] | None. | None. | None. |
| 3 | Particulate Emissions <= 5.43 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)] | None. | None. | None. |
| 4 | Emergency Generator fuel limited to natural gas. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 5 | Each emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:<br><br>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,<br><br>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or when the power disruption resulted from construction, repair, or maintenance activity (CRM) at the facility. Operation of the emergency generator under construction, repair, or maintenance activity is limited to 30 days in any calendar year; or<br><br>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.<br><br>4. When there is a power disruption that results from construction, repair or maintenance activity at the facility." [N.J.A.C. 7:27-19.1] | Monitored by hour/time monitor continuously.<br><br>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:<br><br>Fuel Usage (Cubic feet per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in cubic feet per hour).<br><br>Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance). [N.J.A.C. 7:27-22.16(o)] | Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information:<br><br>1. Once per month, the total operating time from the generator's hour meter, the fuel usage (Cubic feet 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.<br><br>2. For each time the emergency generator is specifically operated for testing or maintenance:<br>i. The reason for its operation;<br>ii. The date(s) of operation and the start up and shut down time;<br>iii. The total operating time for testing or maintenance based on the generator's hour meter; and<br>iv. The name of the operator; and<br><br>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.<br><br>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<br>. [N.J.A.C. 7:27-19.11] | None. |

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

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

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 7 | Hours of Operation <= 100 hr/yr for testing and maintenance.<br><br>The tons per year for each contaminant in U7/OS Summary is based on 100 hours per year used for testing and maintenance only. [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:<br><br>For each time the emergency generator is specifically operated for testing or maintenance:<br>i. The reason for its operation;<br>ii. The date(s) of operation and the start up and shut down time;<br>iii. The total operating time for testing or maintenance based on the generator's hour meter; and<br>iv. The name of the operator. [N.J.A.C. 7:27-19.11] | None. |
| 8 | Maximum Gross Heat Input <= 9.95 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 9 | VOC (Total) <= 0.086 tons/yr based on the permitted hours per year for testing and maintenance. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 10 | NOx (Total) <= 0.267 tons/yr based on the permitted hours per year for testing and maintenance. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 11 | CO <= 0.5 tons/yr based on the permitted hours per year for testing and maintenance. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 12 | TSP <= 0.0047 tons/yr based on the permitted hours per year for testing and maintenance. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 13 | PM-10 (Total) <= 0.0047 tons/yr based on the permitted hours per year for testing and maintenance. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 14 | Acrolein <= 0.0034 tons/yr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 15 | Formaldehyde <= 0.035 tons/yr. [N.J.A.C. 7:27-22.16(a)] | | | |
| 16 | No owner or operator subject to the provisions of 40 CFR 63 may operate any affected source in violation of the requirements of 40 CFR 63. No owner or operator subject to the provisions of 40 CFR 63 shall fail to keep records, notify, report, or revise reports as required under 40 CFR 63. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.4(a)] | None. | None. | None. |
| 17 | For equipment subject to MACT, 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; and (3) the fragmentation of an operation such that the operation avoids regulation by a relevant standard. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.4(b)] & [40 CFR 63.4(c)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 18 | The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(1)(i)] | None. | None. | None. |
| 19 | For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(1)(ii)] | None. | None. | Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(ii)] |
| 20 | The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(3)(i)] | None. | Other: The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and make the plan available upon request for inspection. In addition, the owner or operator must maintain each previous version of the plan for a period of 5 years after the revision of the plan.[40 CFR 63.6(e)(3)(v)]. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 21 | During periods of startup, shutdown, and malfunction, the owner or operator of an affected source must operate and maintain such source, including APC and monitoring equipment, in accordance with the procedures specified in the startup, shutdown and malfunction plan developed under paragraph 40 CFR 63.6(e)(3)(i). (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(3)(ii)] | None. | None. | None. |
| 22 | The owner or operator of an affected source must keep records of actions taken during a startup, shutdown, 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 APC and monitoring equipment. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(3)(iii)] | None. | Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain files of all relevant 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)] &. [40 CFR 63.10(b)(2)] | 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, or malfunction occurred during the reporting period. [40 CFR 63.10(d)(5)(i)] |
| 23 | The owner or operator of an affected source must keep records of actions which are not consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan and, if the source exceeds the relevant emission standard, must report such actions to the Administrator. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(3)(iv)] | None. | Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain files of all relevant 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)] &. [40 CFR 63.10(b)(2)] | 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)] |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 24 | If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event, the owner or operator of an affected source must revise the startup, shutdown, and malfunction plan of such a source within 45 days after the event. (MACT 40 CFR 63, Subpart A - General Provisions). [40 CFR 63.6(e)(3)(viii)] | None. | None. | None. |
| 25 | The facility must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times (NESHAP 40 CFR 63, Subpart ZZZZ - for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6605(a)] | None. | None. | None. |
| 26 | At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source (NESHAP 40 CFR 63, Subpart ZZZZ - for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6605(b)] | None. | None. | None. |

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

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 27 | 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. (NESHAP 40 CFR 63, Subpart ZZZZ - for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63.6640(f)(2)(i)] | None. | None. | None. |

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

**Emission Unit:** **U7 Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr, Subject to MACT Subpart ZZZZ**
**Operating Scenario:** **OS1 Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC (Total) <= 1.674 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 2 | NOx (Total) <= 5.279 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 3 | CO <= 10.046 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 4 | TSP <= 0.094 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 5 | PM-10 (Total) <= 0.094 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 6 | Acrolein <= 0.0722 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | Formaldehyde <= 0.74 lb/hr. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |

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

**Emission Unit:** **U8 Linden Pipeline Liquids Storage**
**Operating Scenario:** **OS Summary**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC (Total) <= 1.0752 tons/yr. [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. |
| 2 | HAPs (Total) <= 0.0011 tons/yr (value includes standing losses only). [N.J.A.C. 7:27-22.16(a)] | HAPs (Total): Monitored by calculations once initially. [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 once initially. [N.J.A.C. 7:27-22.16(o)] | None. |
| 3 | Benzene <= 0.0011 tons/yr based on Modeling Protocol (values only include standing losses). [N.J.A.C. 7:27-22.16(a)] | Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | Benzene: 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. |
| 4 | VOC storage tank > 2000 gallons (7,570 liters), the external surface of the tank exposed to the sun rays shall be painted and maintained white. [N.J.A.C. 7:27-16.2(b)1] | Monitored by visual determination prior to permit expiration date. [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. [N.J.A.C. 7:27-22.16(o)] | None. |
| 5 | VOC: The owner or operator shall maintain on-site, for each tank, 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] | None. | Recordkeeping by data acquisition system (DAS) / electronic data storage upon occurrence of event. Records may also be manually logged in a permanently bound log book. [N.J.A.C. 7:27-16.2(k)] | None. |
| 6 | Design Capacity <= 470 gallons. [N.J.A.C. 7:27-22.16(a)] | None. | None. | None. |
| 7 | Tank content limited to natural gas pipeline condensate. [N.J.A.C. 7:27-22.16(e)] | None. | None. | None. |
| 8 | Total Throughput <= 8,000 gal/yr. Permittee's self-imposed annual throughput limit. [N.J.A.C. 7:27-22.16(e)] | Total Throughput: Monitored by material feed/flow monitoring at the approved frequency. [N.J.A.C. 7:27-22.16(o)] | Total Throughput: Recordkeeping by data acquisition system (DAS) / electronic data storage at the approved frequency. Record date and amount of each transfer from the tank by utilizing waste manifest and shipping records. Records may also be manually logged in a permanently bound log book. [N.J.A.C. 7:27-22.16(e)] | None. |

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

**Emission Unit:** **U8 Linden Pipeline Liquids Storage**
**Operating Scenario:** **OS1 Pipeline Liquids Storage Vessel (470-gallon) - Normal Operation**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC (Total) <= 0.4839 lb/hr. [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. |
| 2 | Benzene <= 0.00729 lb/hr. [N.J.A.C. 7:27-22.16(a)] | Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | Benzene: 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. |

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

**Emission Unit:** **U8 Linden Pipeline Liquids Storage**
**Operating Scenario:** **OS2 Pipeline Liquids Storage Vessel (470-gallon) - Flash**

| Ref.# | Applicable Requirement | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|---|---|---|---|---|
| 1 | VOC (Total) <= 12.5256 lb/hr. [N.J.A.C. 7:27-22.16(a)] | VOC (Total): Monitored by calculations initial calculations only. [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. |
| 2 | Benzene <= 0.153 lb/hr. [N.J.A.C. 7:27-22.16(a)] | Benzene: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)] | Benzene: 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. |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

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

**Facility Name (AIMS):** Linden Compressor Station

**Facility ID (AIMS):** 41722

**Street Address:** TEXAS EASTERN TRANSMISSION LP
LOWR RD AND RANGE RD
LINDEN, NJ 07036

**Mailing Address:** TEXAS EASTERN TRANSMISSION LP
LOWR RD AND RANGE RD
PO BOX 1642
LINDEN, NJ 07036

**State Plane Coordinates:**

| | |
|---|---|
| **X-Coordinate:** | 563 |
| **Y-Coordinate:** | 4,495 |
| **Units:** | UTM Zone 18N - Meters |
| **Datum:** | Unknown |
| **Source Org.:** | Submittal Document |
| **Source Type:** | Other/Unknown |

**County:** Union

**Location Description:** Natural gas compressor station

**Industry:**

| | |
|---|---|
| **Primary SIC:** | 4922 |
| **Secondary SIC:** | |
| **NAICS:** | 486210 |

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

**Contact Type: Air Permit Information Contact**

**Organization:** Texas Eastern Transmission LP
**Org. Type:** LP
**Name:** Reagan M. Mayces
**NJ EIN:** 00720790164
**Title:** Manager EHS - US Operations
**Phone:** (713) 627-4790 x
**Fax:** (713) 386-4454 x
**Other:** ( ) - x
**Type:**
**Email:** rmmayces@spectraenergy.com
**Mailing Address:** Spectra Energy
Texas Eastern Transmission LP
PO Box 1642
Houston, TX 77251-1642

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**Contact Type: Consultant**

**Organization:** Trinity Consultants
**Org. Type:**
**Name:** Dasen Kendrick
**NJ EIN:**
**Title:**
**Phone:** (609) 336-9161 x
**Fax:** ( ) - x
**Other:** (201) 360-7369 x
**Type:** Mobile
**Email:** dkendrick@TrinityConsultants.com
**Mailing Address:** 15 Roszel Road
Suite 105
Princeton , NJ 08540

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**Contact Type: Emission Statements**

**Organization:** Texas Eastern Transmission, LP
**Org. Type:** LP
**Name:** Catherine Daly
**NJ EIN:** 00720790164
**Title:** Environmental Specialist
**Phone:** (617) 560-1446 x
**Fax:** (617) 560-1400 x
**Other:** ( ) - x
**Type:**
**Email:** cddaly@spectraenergy.com
**Mailing Address:** Spectra Energy
Texas Eastern Transmission LP
890 Winter Street, Suite 300
Waltham, MA 02451

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

**Contact Type: Fees/Billing Contact**

**Organization:** Texas Eastern Transmission, L.P.
**Org. Type:** LP
**Name:** Phillip Wiedenfeld
**NJ EIN:** 00720790164
**Title:** Environmental Supervisor
**Phone:** (713) 627-6608 x
**Fax:** (713) 386-4454 x
**Other:** ( ) - x
**Type:**
**Email:** Phillip.Wiedenfeld@enbridge.com

**Mailing Address:**
Enbridge
Texas Eastern Transmission, L.P.
5400 Westheimer Court
Houston, TX 77056

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**Contact Type: General Contact**

**Organization:** Texas Eastern Transmission, LP
**Org. Type:** LP
**Name:** Susann Brown
**NJ EIN:** 00720790164
**Title:** Region Environment Advisor - NE Region
**Phone:** (908) 821-1825 x
**Fax:** (617) 560-1400 x
**Other:** ( ) - x
**Type:**
**Email:** susann.brown@enbridge.com

**Mailing Address:**
Enbridge
501 Coolidge Street
890 Winter Street Suite 300
South Plainfield, NJ 07080

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**Contact Type: On-Site Manager**

**Organization:** Texas Eastern Transmission, LP
**Org. Type:** LP
**Name:** Linda Olnick
**NJ EIN:** 00720790164
**Title:** Area Supervisor
**Phone:** (908) 821-1809 x
**Fax:** (609) 397-3923 x
**Other:** ( ) - x
**Type:**
**Email:** frank.pike@enbridge.com

**Mailing Address:**
Enbridge
Texas Eastern Transmission, LP
Lambertville, NJ 08530

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

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

**Organization:** Texas Eastern Transmission, L.P.
**Org. Type:** LP
**Name:** Texas Eastern Transmission, L.P.
**NJ EIN:** 00720790164
**Title:** Owner
**Phone:** (713) 627-5300 x
**Fax:** (713) 989-8320 x
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**Type:**
**Email:** kerry.pucket@enbridge.com

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Enbridge
Texas Eastern Transmission, L.P.
5400 Westheimer Court
Houston, TX 77056

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**Contact Type: Responsible Official**

**Organization:** Texas Eastern Transmission, L.P.
**Org. Type:** LP
**Name:** Roy Taylor
**NJ EIN:** 00720790164
**Title:** Director, Field Operations, NE Region
**Phone:** (617) 560-2239 x
**Fax:** ( ) - x
**Other:** ( ) - x
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**Mailing Address:**
Enbridge
Texas Eastern Transmission, L.P.
890 Winter Street #320
Waltham, MA 02451

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 07/18/2023

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

| FG NJID | Description of Activity Causing Emission | Location Description | Reasonable Estimate of Emissions (tpy) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | VOC (Total) | NOx | CO | SO | TSP (Total) | PM-10 | Pb | HAPS (Total) | Other (Total) |
| FG1 | Emissions from pipe fittings | | 7.860 | | | | | | | | |
| FG2 | 27A2-TL (13,200 gal/hr Engine Oil Storage Tank Loading Area) | Engine Oil Storage Tank Loading Area | 0.000 | | | | | | | | |
| FG3 | V5-308-TL (8,000 gal/yr Pipeline Liquids Loading Area) | Pipeline Liquids Loading Area | 0.031 | | | | | | | | |
| FG4 | 27A3-TL (19,200 gal/yr Coolant Truck Loading Area) | Coolant Truck Loading Area | 0.000 | | | | | | | | |
| Total | | | 7.891 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00000000 | 0.000 |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS1 | Modine Gas Fired Heater (<1 MMBTU/hr) | Process Heater | Slightly north of control room/ office building in south west corner of the facility, south of communications tower | 0.004 | 0.076 | 0.064 | 0.001 | 0.006 | 0.006 | | 0.00140000 | |
| IS2 | GR-Station Blowdown | Other Equipment | 12 inch blowdown stack marked on the plot plan, northeast of Compressor Building | 0.280 | | | | | | | 0.00110000 | |
| IS3 | GR-Pipeline Blowdown | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 1.050 | | | | | | | 0.00410000 | |
| IS4 | GR-Recip Rodpacking Vent (3, one per engine) | Other Equipment | On the eastern wall of compressor building | 1.200 | | | | | | | 0.00470000 | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS5 | GR-Recip Engine Case Vent Separator Valve Leakage | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 0.070 | | | | | | | 0.00028000 | |
| IS6 | 27A2 (3,300-gal Engine Oil Storage Tank) | Storage Vessel | South of compressor building | | | | | | | | | |
| IS7 | 27A2-TL (13,200 gal/yr Engine Oil Storage Tank Loading Area) | Other Equipment | South of compressor building | | | | | | | | | |
| IS8 | V5-308-TL (8,000 gal/yr Pipeline Liquids Loading Area) | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | | | | | | | | | |
| IS9 | 27A3 (1,500-gal Engine Coolant Storage Tank) | Storage Vessel | | | | | | | | | | |
| IS10 | 27A3-TL (8,000 gal/yr Coolant Truck Loading Area) | Other Equipment | | | | | | | | | | |
| IS11 | PW-Parts Cleaner | Other Equipment | Maintenance | 0.410 | | | | | | | | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS12 | PV01, PV02 - Mercaptan Tanks (500 and 1,000-gallon) | Storage Vessel | Inside odorant building (500 gal) | 0.000 | | | | | | | | |
| IS13 | TK02A, TK02B - Engine Oil Storage Tanks (300 and 520-gallon) | Storage Vessel | South of recccip builiding, north of office building | 0.001 | | | | | | | | |
| IS14 | TK02C - Waste Water Storage Tank (560-gallon) | Storage Vessel | South of compressor builing, west of office building | 0.000 | | | | | | | | |
| IS15 | SV-V1, SV-V4 - Pipeline Liquids Storage Tanks (33 and 298-gallon) | Storage Vessel | South of faclity near case vent separator, just north off access road and southeast of faclity nnear EAS valave operator separator | 0.076 | | | | | | | | |
| IS16 | GR-Recip Case Vent Blowdown | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 0.570 | | | | | | | 0.00220000 | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

| IS NJID | Source/Group Description | Equipment Type | Location Description | Estimate of Emissions (tpy) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOC (Total) | NOx | CO | SO | TSP | PM-10 | Pb | HAPS (Total) | Other (Total) |
| IS17 | GR-Pipeline Liquids Purges from Filter Separators | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 0.010 | | | | | | | 0.00004700 | |
| IS18 | GR-Pipeline Receiver Blowdown Separator | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 0.290 | | | | | | | 0.00110000 | |
| IS19 | GR-Filter Separator Blowdown | Other Equipment | In the pipeline liquids collection area, just north of the access road that runs along southern border of property | 0.040 | | | | | | | 0.00019000 | |
| Total | | | | 4.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00000000 | 0.000 |

**LINDEN COMPRESSOR STATION (41722)** Date: 7/18/2023

**BOP180001**

# New Jersey Department of Environmental Protection
# Equipment Inventory

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|---|---|---|---|---|---|---|---|---|
| E1 | 30801 | Reciprocating Engine Clark HBA-8T | Stationary Reciprocating Engine | | 1/1/1959 | Yes | 8/10/2011 | |
| E2 | 30802 | Reciprocating Engine Clark HBA-8T | Stationary Reciprocating Engine | | 1/1/1959 | Yes | 8/10/2011 | |
| E3 | 30803 | Reciprocating Engine Clark HBA-8T | Stationary Reciprocating Engine | | 1/1/1959 | Yes | 8/10/2011 | |
| E5 | V5-308 | Above ground storage tank | Storage Vessel | BOP010001 | | No | | |
| E6 | V1-308 | Liquid separator | Other Equipment | BOP010001 | 1/1/1991 | No | | |
| E7 | CAT EG | Caterpillar G3516 Emergency Generator | Emergency Generator | | 5/30/2012 | No | | |
| E8 | SV-V2 | Pipeline Liquids Storage Vessel (470-gallon) | Storage Vessel | | | No | | |

**41722 LINDEN COMPRESSOR STATION BOP180001 E2 (Stationary Reciprocating Engine)**
**Print Date: 7/13/2023**

| | |
|---|---|
| Make: | |
| Manufacturer: | Clark |
| Model: | HBA-8T |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 20.3 |
| Class: | Lean Burn |
| Description: | |
| Duty: | Load Following |
| Description: | |
| Minimum Load Range (%): | |
| Maximum Load Range (%): | |
| Stroke: | 2-stroke |
| Power Output (BHP): | 2153 |
| Electric Output(KW): | 1605 |
| Compression Ratio: | |
| Ignition Type: | Spark |
| Description: | |
| Engine Speed (RPM): | |
| Engine Exhaust Temperature (°F): | |
| Air to Fuel Ratio at Peak Load: | |
| Ratio Basis: | |
| Lambda Factor (scfm/scfm): | |
| Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr): | 9431 |
| Output Type: | Pump/Compressor |
| Heat to Power Ratio: | |
| Is the Engine Using a Turbocharger? | ○ Yes ● No |
| Is the Engine Using an Aftercooler? | ○ Yes ● No |

Is the Engine Using (check all that apply):

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

Description:

| | | | |
|---|---|---|---|
| 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:

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

**41722 LINDEN COMPRESSOR STATION BOP180001 E3 (Stationary Reciprocating Engine)**
**Print Date: 7/13/2023**

| | |
|---|---|
| Make: | |
| Manufacturer: | Clark |
| Model: | HBA-8T |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 20.3 |
| Class: | Lean Burn |
| Description: | |
| Duty: | Load Following |
| Description: | |
| Minimum Load Range (%): | |
| Maximum Load Range (%): | |
| Stroke: | 2-stroke |
| Power Output (BHP): | 2153 |
| Electric Output(KW): | 1605 |
| Compression Ratio: | |
| Ignition Type: | Spark |
| Description: | |
| Engine Speed (RPM): | |
| Engine Exhaust Temperature (°F): | |
| Air to Fuel Ratio at Peak Load: | |
| Ratio Basis: | |
| Lambda Factor (scfm/scfm): | |
| Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr): | 9431 |
| Output Type: | Pump/Compressor |
| Heat to Power Ratio: | |
| Is the Engine Using a Turbocharger? | ○ Yes ● No |
| Is the Engine Using an Aftercooler? | ○ Yes ● No |

Is the Engine Using (check all that apply):

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

Description:

| | | | |
|---|---|---|---|
| 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:

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

**41722 LINDEN COMPRESSOR STATION BOP180001 E1 (Stationary Reciprocating Engine)**
**Print Date: 7/13/2023**

| | |
|---|---|
| Make: | |
| Manufacturer: | Clark |
| Model: | HBA-8T |
| Maximum Rated Gross Heat Input (MMBtu/hr): | 20.3 |
| Class: | Lean Burn |
| Description: | |
| Duty: | Load Following |
| Description: | |
| Minimum Load Range (%): | |
| Maximum Load Range (%): | |
| Stroke: | 2-stroke |
| Power Output (BHP): | 2153 |
| Electric Output(KW): | 1605 |
| Compression Ratio: | |
| Ignition Type: | Spark |
| Description: | |
| Engine Speed (RPM): | |
| Engine Exhaust Temperature (°F): | |
| Air to Fuel Ratio at Peak Load: | |
| Ratio Basis: | |
| Lambda Factor (scfm/scfm): | |
| Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr): | 9431 |
| Output Type: | Pump/Compressor |
| Heat to Power Ratio: | |
| Is the Engine Using a Turbocharger? | ○ Yes ● No |
| Is the Engine Using an Aftercooler? | ○ Yes ● No |

Is the Engine Using (check all that apply):

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

Description:

| | | | |
|---|---|---|---|
| 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:

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

**41722 LINDEN COMPRESSOR STATION BOP180001 E5 (Storage Vessel)**
**Print Date: 7/13/2023**

| | |
|---|---|
| What type of contents is this storage vessel equipped to contain by design? | Liquids Only |
| Storage Vessel Type: | Tank |
| Design Capacity: | 2,940 |
| Units: | gallons |
| Ground Location: | Above Ground |
| Is the Shell of the Equipment Exposed to Sunlight? | Yes |
| Shell Color: | White |
| Description (if other): | |
| Shell Condition: | |
| Paint Condition: | |
| Shell Construction: | |
| Is the Shell Insulated? | |
| Type of Insulation: | |
| Insulation Thickess (in): | |
| Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]: | |
| Shape of Storage Vessel: | Cylindrical |
| Shell Height (From Ground to Roof Bottom) (ft): | |
| Length (ft): | 5.00 |
| Width (ft): | |
| Diameter (ft): | 10.00 |
| Other Dimension | |
| Description: | |
| Value: | |
| Units: | |
| Fill Method: | Top Pipe |
| Description (if other): | |
| Maximum Design Fill Rate: | 0.01 |
| Units: | gal/min |
| Does the storage vessel have a roof or an open top? | Roof |
| 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 | |

**41722 LINDEN COMPRESSOR STATION BOP180001 E5 (Storage Vessel)**
**Print Date: 7/13/2023**

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

**41722 LINDEN COMPRESSOR STATION BOP180001 E7 (Emergency Generator)**
**Print Date: 7/13/2023**

| | |
|---|---|
| Make: | Caterpillar |
| Manufacturer: | Caterpillar |
| Model: | G3516 (DM5154-08) |
| Maximum rated Gross Heat Input (MMBtu/hr-HHV): | 9.95 |
| Will the equipment be used in excess of 500 hours per year? | ○ Yes ● No |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | ○ Yes ● No |
| Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? | ● Yes ○ No |
| Comments: | Replacing of the existing rich-burn LeRoi emergency generator, Model: L3460, 5.04 MMBtu/hr (U4/E4) with a larger lean-burn Caterpillar emergency generator, Model: G3516 (DM5154-08), 9.95 MMBtu/hr (U7/E7). This Caterpillar emergency generator is a 1993 model year engine, and it is not subject to NSPS regulations. Effective April 1, 2013. Emergency Generator/Engine > 500 HP installed on or after 12/19/2002, at Major sources is subject to MACT Subpart ZZZZ. |

**41722 LINDEN COMPRESSOR STATION BOP180001 E8 (Storage Vessel)**
**Print Date: 7/13/2023**

| | |
|---|---|
| What type of contents is this storage vessel equipped to contain by design? | Liquids Only |
| Storage Vessel Type: | Tank |
| Design Capacity: | 470 |
| Units: | gallons |
| Ground Location: | Above Ground |
| Is the Shell of the Equipment Exposed to Sunlight? | No |
| Shell Color: | |
| Description (if other): | |
| Shell Condition: | Light Rust |
| Paint Condition: | Good |
| Shell Construction: | Welded |
| Is the Shell Insulated? | No |
| Type of Insulation: | |
| Insulation Thickess (in): | |
| Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]: | |
| Shape of Storage Vessel: | Cylindrical |
| Shell Height (From Ground to Roof Bottom) (ft): | 10.00 |
| Length (ft): | |
| Width (ft): | |
| Diameter (ft): | 4.00 |
| Other Dimension | |
| Description: | |
| Value: | |
| Units: | |
| Fill Method: | Submerged |
| Description (if other): | |
| Maximum Design Fill Rate: | 135.00 |
| Units: | gal/min |
| Does the storage vessel have a roof or an open top? | Roof |
| Roof Type: | Vertical fixed roof tank |
| Roof Height (From Roof Bottom to Roof Top) (ft): | 0.54 |
| Roof Construction: | |
| Primary Seal Type: | |
| Secondary Seal Type: | |
| Total Number of Seals: | |
| Roof Support: | |
| Does the storage vessel have a Vapor Return Loop? | No |
| Does the storage vessel | |

**41722 LINDEN COMPRESSOR STATION BOP180001 E8 (Storage Vessel)**
**Print Date: 7/13/2023**

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

Comments:

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

## New Jersey Department of Environmental Protection
## Emission Points Inventory

| PT NJID | Facility's Designation | Description | Config. | Equiv. Diam. (in.) | Height (ft.) | Dist. to Prop. Line (ft) | Exhaust Temp. (deg. F) | | | Exhaust Vol. (acfm) | | | Discharge Direction | PT Set ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Avg. | Min. | Max. | Avg. | Min. | Max. | | |
| PT1 | 30801 | Reciprocating Engine Stack | | 20 | 62 | 88 | 800.0 | 800.0 | 800.0 | 30,322.5 | 25,120.0 | 35,525.0 | Up | |
| PT2 | 30802 | Reciprocating Engine Stack | | 20 | 62 | 88 | 800.0 | 800.0 | 800.0 | 30,322.5 | 25,120.0 | 35,525.0 | Up | |
| PT3 | 30803 | Reciprocating Engine Stack | | 20 | 62 | 88 | 800.0 | 800.0 | 800.0 | 30,322.5 | 25,120.0 | 35,525.0 | Up | |
| PT4 | 30832 | Emergency Generator Stack | | 6 | 16 | 56 | 800.0 | 800.0 | 900.0 | | 1,826.0 | 2,739.0 | Up | |
| PT5 | V5-308 | AST stack | | 10 | 12 | 113 | 57.0 | 45.0 | 73.0 | | | | Up | |
| PT6 | V1-308 | Blow-down Device Stack (Two 12-inch Stacks) | | 17 | 10 | 144 | | 65.0 | 75.0 | | 9,215.0 | 11,385.0 | Up | |
| PT7 | CAT EG | Caterpillar G3516 Emergency Generator Stack | Round | 12 | 14 | | 824.5 | 809.0 | 840.0 | | 3,297.0 | 6,390.0 | Up | |
| PT8 | SV-V2 | Pipeline Liquids Storage Vessel (470-gallon) | Round | 11 | 23 | | 57.0 | 45.0 | 73.0 | | | 61.2 | Up | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

**U 1 RICE Engine1 2-Stroke Reciprocating Engine (E1), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30299**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | Engine-30801 | Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30299 | Normal - Steady State | E1 | | PT1 | 2-02-002-55<br>2-02-002-02 | 8,760.0 | 8,760.0 | | 25,120.0 | 35,525.0 | 800.0 | 800.0 |

**U 2 RICE Engine2 2-Stroke Reciprocating Engine (E2), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30300**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | Engine-30802 | Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30300 | Normal - Steady State | E2 | | PT2 | 2-02-002-02<br>2-02-002-55 | 8,760.0 | 8,760.0 | | 25,120.0 | 35,525.0 | 800.0 | 800.0 |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

**U 3 RICE Engine3 2-Stroke Reciprocating Engine (E3), Lean Burn, Natural Gas Fired, 2153 BHP, Clark HBA-8T Engine, S.N. 30301**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | Engine-30803 | Reciprocating Engine, Natural Gas Fired, Clark HBA-8T, S.N. 30301 | Normal - Steady State | E3 | | PT3 | 2-02-002-02<br>2-02-002-55 | 8,760.0 | 8,760.0 | | 25,120.0 | 35,525.0 | 800.0 | 800.0 |

**U 5 AST V5-308 V5-308 Above Ground 2940 Gallon Storage Tank (Natural Gas Pipeline Condensate)**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | V5-308 | Aboveground 2940 gallon storage tank | Normal - Steady State | E5 | | PT5 | | 8,760.0 | 8,760.0 | | 45.6 | 48.1 | 45.0 | 73.0 |

**U 6 V1-308 Blow-down Device V1-308 (Compressor/Station Blowdown and Purge)**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | V1-308 | Blowdown/Purge of Compressor | Normal - Steady State | E6 | | PT6 | | | | | | | | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

### U 6 V1-308 Blow-down Device V1-308 (Compressor/Station Blowdown and Purge)

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS2 | V1-308 | Blowdown/Purge of Station Yard Piping | Normal - Steady State | E6 | | PT6 | | | | | | | | |

### U 7 CAT EG Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr, Subject to MACT Subpart ZZZZ

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | CAT EG | Caterpillar G3516 Emergency Generator, 9.95 MMBtu/hr | Normal - Steady State | E7 | | PT7 | 2-02-002-54 | | 115.0 | | 3,297.0 | 6,390.0 | 809.0 | 840.0 |

### U 8 LIND PL Linden Pipeline Liquids Storage

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | SV-V2 NORMAL | Pipeline Liquids Storage Vessel (470-gallon) - Normal Operation | Normal - Steady State | E8 | | PT8 | | | | | | | | |

**LINDEN COMPRESSOR STATION (41722)**
**BOP180001**

Date: 7/18/2023

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

**U 8 LIND PL Linden Pipeline Liquids Storage**

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS2 | SV-V2 FLASH | Pipeline Liquids Storage Vessel (470-gallon) - Flash | Normal - Steady State | E8 | | PT8 | | | | | | | | |