

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

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 160001

**Description of Modifications:** Anheuser Busch Inc. wishes to permit Boiler #3 and Boiler #4 as "gas only boilers" and therefore not subject to the Industrial Boiler MACT provisions (40 CFR Subpart DDDDD). AB is seeking to limit the fuel oil usage to 48 hour per year for testing and maintenance purposes and only fire ultra-low sulfur diesel during periods of natural gas curtailment. Fuel oil use during natural gas curtailment would be unlimited.

Additionally, because AB is seeking to permit the boilers as "gas only", AB is requesting that the five year stack testing conditions of the Title V Operating Permit be removed for the fuel oil operating scenarios. (U3003, OS2 & OSS4 and U3004, OS2 & OSS4). No proposed changes are being requested for any short term (lb/hr) or annual (ton/yr) limits containing in the Title V Operating Permit.

A marked up copy of the Title V Operating Permit pertaining to the Boiler #3 and Boiler #4 Compliance Plan is provided as an attachment to the Radius application.

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

**Facility Name (AIMS):** Anheuser-Busch. LLC

**Facility ID (AIMS):** 07551

**Street** 200 US HWY 1  
**Address:** NEWARK, NJ 07114

**Mailing** 200 US HWY 1  
**Address:** NEWARK, NJ 07114

**County:** Essex  
**Location** Opposite Newark Airport  
**Description:**

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	577,631
<b>Y-Coordinate:</b>	677,531
<b>Units:</b>	Feet
<b>Datum:</b>	NAD83
<b>Source Org.:</b>	DEP-GIS
<b>Source Type:</b>	DEP Program Database

<b>Industry:</b>	
<b>Primary SIC:</b>	2020
<b>Secondary SIC:</b>	2082
<b>NAICS:</b>	312120



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

- |   |     |
|---|-----|
| 1. Is this facility classified as a small business by the USEPA?  | No  |
| 2. Is this facility subject to N.J.A.C. 7:27-22?  | Yes |
| 3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22?                         | No  |
| 4. Has a copy of this application been sent to the USEPA?   | No  |
| 5. If not, has the EPA waived the requirement?  | No  |
| 6. Are you claiming any portion of this application to be confidential?                                       | No  |
| 7. Is the facility an existing major facility?  | Yes |
| 8. Have you submitted a netting analysis?   | No  |
| 9. Are emissions of any pollutant above the SOTA threshold?   | No  |
| 10. Have you submitted a SOTA analysis?   | No  |
| 11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required |     |
| 12. Have you provided, or are you planning to provide air contaminant modeling?                               | No  |

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New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U3003 Boiler # 3, throttled from 200.7 MMBTU/hr down to 168 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, CO, and NO<sub>x</sub> while firing natural gas and natural gas with biogas and also TSP and <del>PM-10 when firing #2 fuel oil and fuel oil with biogas</del> as specified in the compliance plan for OS1 through OS4. <del>Testing must be</del> conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].</p> <p>OS1 and OS3</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. N.J.A.C. 7:27-3.2(a) & [N.J.A.C. 7:27- 3.2(c)]	Other: Visual determination. Daily when burning No.2 fuel oil and none when burning Natural Gas. The permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions (other than condensed water vapor) greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturers specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step one does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted once per day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 2:27-22.19.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of observations in a bound logbook or electronic storage in readily available computer files. Daily when burning No.2 fuel oil and none when burning Natural Gas. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
3	Particulate Emissions $\leq$ 18.9 lb/hr based on rated heat input for Boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel $\leq$ 0.0015 % by weight from BOP120001. [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by fuel sampling (e.g. oil) per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
5	Sulfur Content in Fuel $\leq$ 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
7	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)1]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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(a)]
8	CO <= 100 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(a)]

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Adjust the combustion process in accordance with NJAC 7:27-19.16 in the same quarter of each calendar year for each fuel type. [N.J.A.C. 7:27-16.8(b)3.ii(2)] and [N.J.A.C. 7:27-19.7(g)3]	<p>Monitored by periodic emission monitoring annually for each fuel type. When conducting a combustion adjustment, the permittee shall:</p> <ul style="list-style-type: none"> <li>i. Inspect the burner, and clean or replace any components of the burner as necessary;</li> <li>ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications;</li> <li>iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly</li> <li>iv. Minimize total emissions of NOx and CO consistent with the manufacturer's specifications;</li> <li>v. Measure the concentration in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and</li> <li>vi. Convert the emission values of the NOx, CO and O2 concentrations measured pursuant to v. above to pounds per million BTU (lb/MM BTU) according to the formula prescribed at N.J.A.C. 7:27-19.16(a).</li> </ul> <p>[N.J.A.C. 7:27-19.16(a)] and [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment or source operation adjusted shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each annual adjustment:</p> <ul style="list-style-type: none"> <li>1. The date of the adjustment and the times at which it began and ended;</li> <li>2. The name, title and affiliation of the person who made the adjustment;</li> <li>3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made;</li> <li>4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured;</li> <li>5. A description of any corrective action taken;</li> <li>6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU);</li> <li>7. The type and amount of fuel used over the 12 months prior to the annual adjustment; and</li> <li>8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation.</li> </ul> <p>[N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: As per the approved schedule. Beginning 1/1/09, the owner or operator shall ensure that an annual adjustment combustion process report is submitted electronically to the Department within 45 days after the adjustment of the combustion process is completed. The electronic report shall be in the format the Department specifies at its website. The report shall contain the following information:</p> <ul style="list-style-type: none"> <li>1. The concentration of NOx and CO in the effluent stream in ppmvd, and O2, in percent dry basis, measured before and after the adjustment of the combustion process;</li> <li>2. The converted emission values in lb/MMBTU for the measurements taken before and after the adjustment of the combustion process;</li> <li>3. A description of any corrective action taken as part of the combustion adjustment; and</li> <li>4. The type and amount of fuel used over the 12 months prior to the annual adjustment.</li> </ul> <p>[N.J.A.C. 7:27-19.16(c)] and [N.J.A.C. 7:27-19.16(d)]</p>
10	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted. [N.J.A.C. 7:27-19.16(e)].	None.
12	Boiler fuels limited to Natural Gas , No. 2 Distillate Oil, and biogas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Maximum Gross Heat Input <= 200.7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Maximum Gross Heat Input <= 168 MMBTU/hr (HHV). Maximum heat input rate based on 163,106 cubic feet per hour of natural gas and a heating value of 1030 Btu per cubic foot from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. The fuel limit shall be <=163,106 cubic feet per hour. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
15	Maximum Gross Heat Input <= 168 MMBTU/hr (HHV). Maximum heat input rate based on 1213 gallons per hour of fuel oil and a heating value of 138,500 Btu per gallon from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. The fuel limit shall be <=1213 gal/hr.. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record gallons per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
16	Maximum Gross Heat Input <= 168 MMBTU/hr (HHV). Maximum heat input rate based on actual usage of natural gas blended with biogas from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Maximum Gross Heat Input <= 168 MMBTU/hr (HHV). Maximum heat input rate based on actual usage of #2 fuel oil blended with biogas from BOP130002. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record gallons and cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
18	VOC (Total) <= 18.8 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	NOx (Total) <= 147.2 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	CO <= 65.8 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	SO2 <= 4.18 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	TSP <= 5.1 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	PM-10 (Total) <= 5.1 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	PM-2.5 (Total) <= 5.1 tons/yr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Hexane (n-) <= 1.29 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Maximum annual heat input <= 1,472,000 MMBtu per any period of 365 consecutive days from BOP130002. The Actual Annual Heat Input (MMBtu) = (X MMgal #2 fuel Oil Consumed)(138,500 Btu/gal) + (Y MMscf Natural Gas Consumed)(1030 Btu/cubic ft) + (Z MMscf Biogas Consumed)(750BTU/ft3). Gallons or cubic feet per any period of 365 consecutive days is computed by adding the fuel consumed in a given day to that consumed in the preceding 364 days. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record the rolling 365-day fuel consumption daily. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Natural Gas Usage $\leq$ 1,429 MMft <sup>3</sup> per any period of 365 consecutive days from BOP130002. The annual limit in cubic feet for any 365 consecutive days shall be computed by adding the consumption on a given day to that consumed in the previous 364 preceding days. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record daily and sum-to-date natural gas consumption. [N.J.A.C. 7:27-22.16(o)]	None.
28	No. 2 Fuel Oil Usage $\leq$ <del>606,500</del> gallons per any consecutive period of 365 days only during periods of natural gas curtailment except for 48 hours per year for testing from BOP150001. Gallons for any consecutive 365 days is computed by adding the fuel consumed in one day to that consumed in the preceding 364 days. Fuel Oil shall be ULSD No.2 oil. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]  58,224  Fuel oil use during natural gas curtailment periods is unlimited.	No. 2 Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record daily and sum-to-date fuel consumption. [N.J.A.C. 7:27-22.16(o)]	None.
29	Biogas usage $\leq$ 219MMft <sup>3</sup> per any 365 consecutive days from BOP130002. The annual limit in cubic feet for any 365 consecutive days shall be computed by adding the consumption on a given day to that consumed in the previous 364 preceding days. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously recorded daily and summed to date. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U3003 Boiler # 3, throttled from 200.7 MMBTU/hr down to 168 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS1 Steam Boiler # 3 fired with Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 4.29 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 33.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 15.03 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
4	SO2 <= 0.1 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.82 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.82 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.82 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hexane (n-) <= 0.294 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.0006 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	PM-10 (Total) $\leq$ 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Natural Gas Usage $\leq$ 0.163 MMft <sup>3</sup> per hour. Maximum fuel use limit (natural gas) in any sixty (60) minute period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The calculations for the hourly fuel consumption will have to be processed hourly. Recording device shall be set to record all exceedance incidents by documentating the date and time of exceedance, duration of exceedance, and level of exceedance. [N.J.A.C. 7:27-22.16(a)]	None.

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

**Emission Unit:** U3003 Boiler # 3, throttled from 200.7 MMBTU/hr down to 168 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS2 Steam Boiler # 3 fired with #2 (Distillate Oil)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 4.29 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 33.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
3	CO <= 15.03 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
4	SO2 <= 0.27 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 6.7 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.7 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.7 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
10	SO2 <= 0.0016 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.04 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	No. 2 Fuel Oil Usage <= 1,213 gal/hr Maximum fuel use limit in any sixty (60) minute period from BOP130002.. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The calculations for the hourly fuel consumption will have to be processed hourly. Recording device shall be set to record all exceedance incidents by documentating the date and time of exceedance, duration of exceedance, and level of exceedance. [N.J.A.C. 7:27-22.16(a)]	None.

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Facility Specific Requirements**

**Emission Unit:** U3003 Boiler # 3, throttled from 200.7 MMBTU/hr down to 168 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS3 Steam Boiler # 3 fired with Natural Gas/Biogas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 4.29 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 33.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 15.03 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
4	SO2 <= 0.95 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.82 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.82 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.82 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hexane (n-) <= 0.294 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing each quarter hour during operation, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.0056 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
12	TSP <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U3003 Boiler # 3, throttled from 200.7 MMBTU/hr down to 168 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS4 Steam Boiler # 3 fired with #2 (Distillate Oil)/Biogas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 4.28 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 33.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
3	CO <= 15.03 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
4	SO2 <= 1.11 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 6.7 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.7 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.7 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
10	SO2 <= 0.0066 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: U3004 Boiler # 4, throttled from 200.7 MMBTU/hr down to 153 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>The permittee shall conduct a stack test at least 18 months prior to the expiration of the initial or renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, CO, and NO<sub>x</sub> while firing natural gas <del>and natural gas with biogas and also TSP and PM-10 when firing #2 fuel oil and fuel oil with biogas</del> as specified in the compliance plan for <del>OS1 through OS4</del>. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].</p> <p>OS1 and OS3</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: <a href="http://www.epa.gov/ttnchie1/ert">http://www.epa.gov/ttnchie1/ert</a>. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. N.J.A.C. 7:27-3.2(a) & [N.J.A.C. 7:27- 3.2(c)]	Other: Visual determination. Daily when burning No.2 fuel oil and none when burning Natural Gas. The permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions (other than condensed water vapor) greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufacturers specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step one does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted once per day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 2:27-22.19.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of observations in a bound logbook or electronic storage in readily available computer files. Daily when burning No.2 fuel oil and none when burning Natural Gas. The permittee must retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal. [N.J.A.C. 7:27-22.16(o)]
3	Particulate Emissions <= 18.1 lb/hr based on rated heat input for Boiler. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 0.0015 % by weight from BOP120001. [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by fuel sampling (e.g. oil) per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery. [N.J.A.C. 7:27-22.16(o)]	None.
5	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
7	VOC (Total) <= 50 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)1]	VOC (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [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(a)]
8	CO <= 100 ppmvd @ 7% O <sub>2</sub> . [N.J.A.C. 7:27-16.8(b)2]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.16(a)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Adjust the combustion process in accordance with NJAC 7:27-19.16 in the same quarter of each calendar year for each fuel type. [N.J.A.C. 7:27-16.8(b)3.ii(2)] and [N.J.A.C. 7:27-19.7(g)3]	<p>Monitored by periodic emission monitoring annually for each fuel type. When conducting a combustion adjustment, the permittee shall:</p> <ul style="list-style-type: none"> <li>i. Inspect the burner, and clean or replace any components of the burner as necessary;</li> <li>ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications;</li> <li>iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly</li> <li>iv. Minimize total emissions of NOx and CO consistent with the manufacturer's specifications;</li> <li>v. Measure the concentration in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and</li> <li>vi. Convert the emission values of the NOx, CO and O2 concentrations measured pursuant to v. above to pounds per million BTU (lb/MM BTU) according to the formula prescribed at N.J.A.C. 7:27-19.16(a).</li> </ul> <p>[N.J.A.C. 7:27-19.16(a)] and [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of the equipment or source operation adjusted shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each annual adjustment:</p> <ol style="list-style-type: none"> <li>1. The date of the adjustment and the times at which it began and ended;</li> <li>2. The name, title and affiliation of the person who made the adjustment;</li> <li>3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made;</li> <li>4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured;</li> <li>5. A description of any corrective action taken;</li> <li>6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MMBTU);</li> <li>7. The type and amount of fuel used over the 12 months prior to the annual adjustment; and</li> <li>8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation.</li> </ol> <p>[N.J.A.C. 7:27-19.16(b)]</p>	<p>Submit a report: As per the approved schedule. Beginning 1/1/09, the owner or operator shall ensure that an annual adjustment combustion process report is submitted electronically to the Department within 45 days after the adjustment of the combustion process is completed. The electronic report shall be in the format the Department specifies at its website. The report shall contain the following information:</p> <ol style="list-style-type: none"> <li>1. The concentration of NOx and CO in the effluent stream in ppmvd, and O2, in percent dry basis, measured before and after the adjustment of the combustion process;</li> <li>2. The converted emission values in lb/MMBTU for the measurements taken before and after the adjustment of the combustion process;</li> <li>3. A description of any corrective action taken as part of the combustion adjustment; and</li> <li>4. The type and amount of fuel used over the 12 months prior to the annual adjustment.</li> </ol> <p>[N.J.A.C. 7:27-19.16(c)] and [N.J.A.C. 7:27-19.16(d)]</p>
10	NOx (Total) <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-19.7(i)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitor and maintain the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted. [N.J.A.C. 7:27-19.16(e)].	None.
12	Boiler fuels limited to Natural Gas , No. 2 Distillate Oil, and biogas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Maximum Gross Heat Input <= 200.7 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner rated capacity. [N.J.A.C. 7:27-22.16(o)].	None.	None.
14	Maximum Gross Heat Input <= 153 MMBTU/hr (HHV). Maximum heat input rate based on 148,543 cubic feet per hour of natural gas and a heating value of 1030 Btu per cubic foot from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. The fuel limit shall be <= 148,543 cubic feet per hour. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
15	Maximum Gross Heat Input <= 153 MMBTU/hr (HHV). Maximum heat input rate based on 1105 gallons per hour of fuel oil and a heating value of 138,500 Btu per gallon from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. The fuel limit shall be <=1105 gal/hr. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record gallons per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
16	Maximum Gross Heat Input <= 153 MMBTU/hr (HHV). Maximum heat input rate based on actual usage of natural gas blended with biogas from BOP130002. . [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Maximum Gross Heat Input <= 153 MMBTU/hr (HHV). Maximum heat input rate based on actual usage of #2 fuel oil blended with biogas from BOP130002. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The owner or operator shall install and operate within 180 days of approval of BOP130002, a fuel flow meter that shall meet an accuracy of not less than 2% per 40 CFR75, Appendix D. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The Data acquisition system (DAS) shall record gallons and cubic feet per hour. The facility shall install and operate the data acquisition system(DAS)/electronic data storage system within 180 days of approval of BOP130002. [N.J.A.C. 7:27-22.16(o)]	None.
18	VOC (Total) <= 17.1 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	NOx (Total) <= 134 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	CO <= 59.9 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	SO2 <= 4.14 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	TSP <= 4.6 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	PM-10 (Total) <= 4.6 tons/yr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	PM-2.5 (Total) <= 4.6 tons/yr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Hexane (n-) <= 1.17 tons/yr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Maximum annual heat input <= 1,340,000 MMBtu per any period of 365 consecutive days from BOP130002. The Actual Annual Heat Input (MMBtu) = (X MMgal #2 fuel Oil Consumed)(138,500 Btu/gal) + (Y MMscf Natural Gas Consumed)(1030 Btu/cubic ft)+ (Z MMscf Biogas Consumed)(750BTU/ft3). Gallons or cubic feet per any period of 365 consecutive days is computed by adding the fuel consumed in a given day to that consumed in the preceding 364 days. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. The monitor shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record the rolling 365-day fuel consumption daily. [N.J.A.C. 7:27-22.16(o)]	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	Natural Gas Usage $\leq 1,301$ MMft <sup>3</sup> per any period of 365 consecutive days from BOP130002. The annual limit in cubic feet for any 365 consecutive days shall be computed by adding the consumption on a given day to that consumed in the previous 364 preceding days. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record daily and sum-to-date natural gas consumption. [N.J.A.C. 7:27-22.16(o)]	None.
28	No. 2 Fuel Oil Usage $\leq 552,347$ gallons only during natural gas curtailment periods except for 48 hours per year for testing per any consecutive period of 365 days from BOP150001. Gallons for any consecutive 365 days is computed by adding the fuel consumed in one day to that consumed in the preceding 364 days. Fuel Oil shall be ULSD No.2 oil. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]  53,025  Fuel oil use during natural gas curtailment periods is unlimited.	No. 2 Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Record daily and sum-to-date fuel consumption. [N.J.A.C. 7:27-22.16(o)]	None.
29	Biogas usage $\leq 219$ MMft <sup>3</sup> per any 365 consecutive days from BOP130002. The annual limit in cubic feet for any 365 consecutive days shall be computed by adding the consumption on a given day to that consumed in the previous 364 preceding days. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously recorded daily and summed to date. [N.J.A.C. 7:27-22.16(o)]	None.

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

**Emission Unit:** U3004 Boiler # 4, throttled from 200.7 MMBTU/hr down to 153 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS1 Steam Boiler # 4 fired with Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.91 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 30.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 13.68 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
4	SO2 <= 0.09 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.75 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.75 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.75 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hexane (n-) <= 0.267 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.0006 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	PM-10 (Total) $\leq$ 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Natural Gas Usage $\leq$ 0.149 MMft <sup>3</sup> per hour. Maximum fuel use limit (natural gas) in any sixty (60) minute period. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The calculations for the hourly fuel consumption will have to be processed hourly. Recording device shall be set to record all exceedance incidents by documentating the date and time of exceedance, duration of exceedance, and level of exceedance. [N.J.A.C. 7:27-22.16(a)]	None.

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

**Emission Unit:** U3004 Boiler # 4, throttled from 200.7 MMBTU/hr down to 153 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS2 Steam Boiler # 4 fired with #2 (Distillate Oil)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.91 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 30.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
3	CO <= 13.68 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
4	SO2 <= 0.24 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 6.1 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.1 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.1 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
10	SO2 <= 0.0016 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.04 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	No. 2 Fuel Oil Usage $\leq$ 1,105 gal/hr. Maximum fuel use limit in any sixty (60) minute period from BOP130002. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously The monitors shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The calculations for the hourly fuel consumption will have to be processed hourly. Recording device shall be set to record all exceedance incidents by documentating the date and time of exceedance, duration of exceedance, and level of exceedance. [N.J.A.C. 7:27-22.16(a)]	None.

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

**Emission Unit:** U3004 Boiler # 4, throttled from 200.7 MMBTU/hr down to 153 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS3 Steam Boiler # 4 fired with Natural Gas/Biogas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.91 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 30.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
3	CO <= 13.68 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
4	SO2 <= 0.94 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 0.75 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.75 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 0.75 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Hexane (n-) <= 0.267 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]
11	SO2 <= 0.0061 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
13	PM-10 (Total) <= 0.0049 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

**Emission Unit:** U3004 Boiler # 4, throttled from 200.7 MMBTU/hr down to 153 MMBTU/hr, burning natural gas, biogas and #2 fuel oil

**Operating Scenario:** OS4 Steam Boiler # 4 fired with #2 (Distillate Oil)/Biogas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.9 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 30.6 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>NOx (Total): Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
3	CO <= 13.68 lb/hr from BOP130002. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
4	SO2 <= 1.09 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 6.1 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 6.1 lb/hr from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-2.5 (Total) <= 6.1 lb/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.026 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	CO <= 0.09 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	<del>CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>CO: Recordkeeping by stack test results upon occurrence of event. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(a)]</del>	<del>Stack Test – Submit protocol, conduct test and submit results. As per the approved schedule. See OS Summary for stack test requirements. [N.J.A.C. 7:27-22.16(o)]</del>
10	SO2 <= 0.0071 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.04 lb/MMBTU from BOP150001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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

Emission Unit: U3007 Fuel Oil Storage Tanks

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.12 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Fuel Oil Usage <= 12 MMgal/yr. [N.J.A.C. 7:27-22.16(a)]	Fuel Oil Usage: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. Record fuel type and quantity received. Also maintain invoice / bill of lading for each delivery. [N.J.A.C. 7:27-22.16(o)]	None.
3	Tank content limited to #2 distillate oil. [N.J.A.C. 7:27-22.16(a)]	Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	None.
4	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	showing fuel sulfur content. Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time the fuel was stored in New Jersey may be stored, offered for sale, sold, delivered or exchanged in trade, for use in New Jersey, after the effective date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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

Emission Unit: U3008 CO2 Regeneration System

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	VOC (Total) <= 3.5 lb/hr. Regulatory Maximum allowable emission rate as determined from Tables 16a and 16b, based on vapor pressure and percent VOC in the source gas. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by production records.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the procedure for using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation used for more than one process, the dates the source operation is used for each process.  Maintain records for a period of no less than five years and shall make those records available upon request of the Department or the EPA, or any duly authorized representative of the Department of the EPA. [N.J.A.C.7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.
3	VOC (Total) <= 1.65 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	VOC (Total) <= 7.23 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Maximum process raw materials #/batch, 168 hrs/batch Max (3) batches started within 24 hr. period for the fermentation equipment is 1.1 million lbs/batch. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Maximum of (3) batches started within 24 hr period for the fermentation equipment. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

## RADIUS File Submission

**Note:** Following is a summary of the information contained in your application. If you have completed the submittal, the service will appear in the "My Services - Submitted" section of your My Workspace page. Please check the "Status" column to confirm whether it was successfully transmitted or not. If the status of the service is "Submission Failed - Please Contact NJDEP," please send an e-mail message to [njdeponlinesupport@dep.nj.gov](mailto:njdeponlinesupport@dep.nj.gov) for assistance, including the Service ID number of the failed submittal in the message. If you have not yet completed the submittal, the service will appear in the "My Services - In Progress" section of the My Workspace page instead, and the "Status" column will indicate the stage of the submittal.

**Selected Facility Name:** ANHEUSER-BUSCH INC  
**Selected Facility ID:** 07551  
**Submittal Type:** Operating Permit Application - Initial - (Modification)

[Click here](#) to access the pdf version of the information submitted in the RADIUS file.

### Uploaded Attachments

Attachment Type	Attachment Description	File Name
RADIUS Attachment	Compliance Plan Markup Changes	19661_BOP160001_Boiler Compliance Plan Markup.pdf

### Certification

**Certifier:** Manuel Vizcaya  
**Certifier ID:** VIZCAYAM  
**Challenge/Response Question:** What is your favorite hobby?  
**Challenge/Response Answer:** \*\*\*\*\*  
**Certification PIN:** \*\*\*\*\*  
**Date/Time of Certification:** 09/21/2020 05:19

**For Air Permits:**

"I certify under penalty of law that I believe the information provided in this document is true, accurate, and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information."

**For Emission Statements:**

"I certify under penalty of law that I believe the information provided in this document is true, accurate, and complete. For those portions of the document that are based on estimates, those estimates are the result of good faith application of sound professional judgment, using techniques, factors, or standards approved by the Department or EPA, or generally accepted in the trade. I am aware that there are significant civil and criminal penalties, including fines or imprisonment or both, for submitting false, inaccurate or incomplete information."

Manuel Vizcaya  
**Individual With Direct Knowledge**                      **Date** 09/21/2020

**Certifier:** Michael Higgins  
**Certifier ID:** 00189298  
**Challenge/Response Question:** What is your first child's middle name?  
**Challenge/Response Answer:** \*\*\*\*\*  
**Certification PIN:** \*\*\*\*\*  
**Date/Time of Certification:** 09/21/2020 14:21

**For Air Permits:**

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

**For Emission Statements:**

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in the attached document and, based on my inquiry of those officials immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I certify that, based on my inquiry of those officials immediately responsible for obtaining the information, I believe that any estimates are the result of good faith application of sound professional judgment, using techniques, factors, or standards approved by the Department or EPA, or generally accepted in the trade. I am aware that there are significant civil and criminal penalties, including fines or imprisonment or both, for submitting false, inaccurate or incomplete information."

Michael Higgins  
**Responsible Official**                      **Date** 09/21/2020

**Payment Information**

**Total Payment Amount:** \$ .00

**Payment Date:**

**Payment Method:**