



State of New Jersey

Department of Environmental Protection
Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

CATHERINE R. McCABE
Acting Commissioner

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP170004

Program Interest Number: 41805

Mailing Address	Plant Location
Michael A. Bukowski Refinery Manager PHILLIPS 66 CO 1400 Park Ave Linden, NJ 07036	PHILLIPS 66 COMPANY 1400 Park Ave Linden Union County

Initial Operating Permit Approval Date: August 14, 2003
Operating Permit Approval Date: January 26, 2018
Operating Permit Expiration Date: August 13, 2018

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

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <http://www.nj.gov/dep/opra/online.html>. 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 www.state.nj.us/dep/aqpp.

HELPLINE

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

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

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

COMPLIANCE ASSURANCE MONITORING

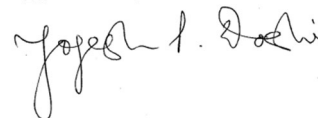
Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>.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

ADMINISTRATIVE HEARING REQUEST

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

If you have any questions regarding this permit approval, please call Mubin Kathrada at (609) 633-1134.

Approved by:



Yogesh Doshi

Enclosure

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

BOP170004

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

Emission Unit: U16 Facility External Floating Roof Tanks

Operating Scenario: OS76 E231 - Tank TPTT38, Ext. Floating Roof, 2,300,000 gal., Petroleum Hydrocarbon Liquids =< 11.0 TVP psia, MACT CC, Group 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Each owner or operator of a Group 1 storage vessel shall comply with the requirements of 40 CFR 63.119 through 40 CFR 63.121 and 40 CFR 63.123. [40 CFR 63.646] and. [40 CFR 63.654(i)]	None.	None.	None.
2	<p>The external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device is to consist of two seals, one above the other. The lower seal is referred to as the primary seal and the upper seal is referred to as the secondary seal. The primary seal shall be either a metallic shoe seal or a liquid-mounted seal. Except during the inspections required by 40 CFR 63.120(b), both the primary seal and the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion.</p> <p>The external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports during the initial fill, after the vessel has been completely emptied and degassed, when the vessel is completely emptied before being subsequently refilled. When the floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical. [40 CFR 63.119(c)]</p>	<p>Other: The owner or operator shall determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel, and the secondary seal and the wall of the storage vessel as follows:</p> <p>The measurements of gaps between the vessel wall and the primary seal shall be performed during the hydrostatic testing of the vessel and at least once every 5 years thereafter.</p> <p>The measurements of gaps between the vessel wall and the secondary seal shall be performed at least once per year. [40 CFR 63.120(b)(1)(i)] & [40 CFR 63.120(b)(1)(iii)].</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] & [40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. If a failure is detected during seal gap measurements that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, the owner or operator may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. The owner or operator shall notify the Administrator in writing 30 calendar days in advance of any gap measurements to afford the Administrator the opportunity to have an observer present. [40 CFR 63.120(b)(8)] & [40 CFR 63.120(b)(9)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>The owner or operator shall determine gap widths and gap areas in the primary and secondary seals (seal gaps) individually. [40 CFR 63.120(b)(2)]</p>	<p>Other: Seal gaps, if any, shall be measured at one or more floating roof levels when the roof is not resting on the roof leg supports.</p> <p>Seal gaps, if any, shall be measured around the entire circumference of the vessel in each place where a 0.32 centimeter diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage vessel. The circumferential distance of each such location shall also be measured.</p> <p>The total surface area of each gap described in paragraph (ii) shall be determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance.[40 CFR 63.120(b)(2)].</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] &[40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. If a failure is detected during seal gap measurements that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, the owner or operator may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. The owner or operator shall notify the Administrator in writing 30 calendar days in advance of any gap measurements to afford the Administrator the opportunity to have an observer present. [40 CFR 63.120(b)(8)] &. [40 CFR 63.120(b)(9)]</p>
4	<p>The owner or operator shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 square centimeters per meter of vessel diameter and the width of any portion of any gap shall not exceed 3.81 centimeters. [40 CFR 63.120(b)(3)]</p>	<p>Monitored by calculations prior to permit renewal. [40 CFR 63.120(b)(3)]</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] &[40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. The owner or operator shall repair conditions that do not meet requirements listed in paragraphs 40 CFR 63.120(b)(3), (b)(4), (b)(5), and (b)(6) (i.e., failures) no later than 45 calendar days after identification, or shall empty and remove the storage vessel from service no later than 45 calendar days after identification. [40 CFR 63.120(b)(8)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>The owner or operator shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the vessel. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.2 square centimeters per meter of vessel diameter and the width of any portion of any gap shall not exceed 1.27 centimeters. These seal gap requirements may be exceeded during the measurement of primary seal gaps as required by 40 CFR 63.120(b)(1)(i) and (b)(1)(ii). [40 CFR 63.120(b)(4)]</p>	<p>Monitored by calculations annually. [40 CFR 63.120(b)(4)]</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] &[40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. The owner or operator shall repair conditions that do not meet requirements listed in paragraphs 40 CFR 63.120(b)(3), (b)(4), (b)(5), and (b)(6) (i.e., failures) no later than 45 calendar days after identification, or shall empty and remove the storage vessel from service no later than 45 calendar days after identification. [40 CFR 63.120(b)(8)]</p>
6	<p>The primary seal shall meet the additional requirements specified below: (i) Where a metallic shoe seal is in use, one end of the metallic shoe shall extend into the stored liquid and the other end shall extend a minimum vertical distance of 61 centimeters above the stored liquid surface. (ii) There shall be no holes, tears, or other openings in the shoe, seal fabric, or seal envelope. [40 CFR 63.120(b)(5)]</p>	<p>Other: Monitored by measurements and visual determination once every five years.[40 CFR 63.120(b)(1)(i)].</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] &[40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. The owner or operator shall repair conditions that do not meet requirements listed in paragraphs 40 CFR 63.120(b)(3), (b)(4), (b)(5), and (b)(6) (i.e., failures) no later than 45 calendar days after identification, or shall empty and remove the storage vessel from service no later than 45 calendar days after identification. If a failure is detected that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, the owner or operator may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. [40 CFR 63.120(b)(8)]</p>

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

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The secondary seal shall meet the additional requirements specified below</p> <p>(i) The secondary seal shall be installed above the primary seal so that it completely covers the space between the roof edge and the vessel wall.</p> <p>(ii) There shall be no holes, tears, or other openings in the seal or seal fabric.</p> <p>[40 CFR 63.120(b)(6)]</p>	<p>Monitored by visual determination annually.</p> <p>[40 CFR 63.120(b)(iii)]</p>	<p>Other: An owner or operator shall keep records describing the results of each seal gap measurement made in accordance with 40 CFR 63.120(b). The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in 40 CFR 63.120(b)(3) and (4). [40 CFR 63.123(a)] &[40 CFR 63.123(d)].</p>	<p>Repair equipment: As per the approved schedule. The owner or operator shall repair conditions that do not meet requirements listed in paragraphs 40 CFR 63.120(b)(3), (b)(4), (b)(5), and (b)(6) (i.e., failures) no later than 45 calendar days after identification, or shall empty and remove the storage vessel from service no later than 45 calendar days after identification. If a failure is detected that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, the owner or operator may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. [40 CFR 63.120(b)(8)]</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	<p>The owner or operator shall visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.</p> <p>If the external floating roof has defects; the primary seal has holes, tears, or other openings in the seal or the seal fabric; or the secondary seal has holes, tears, or other openings in the seal or the seal fabric; or the gaskets no longer close off the liquid surface from the atmosphere; or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with organic HAP. [40 CFR 63.120(b)(10)(i)]</p>	<p>Monitored by visual determination upon occurrence of event. [40 CFR 63.120(b)(10)]</p>	<p>None.</p>	<p>Submit notification: As per the approved schedule. For all the inspections required by 40 CFR 63.120(b)(10), the owner or operator shall notify the Administrator in writing at least 30 calendar days prior to filling or refilling of each storage vessel with organic HAP to afford the Administrator the opportunity to inspect the storage vessel prior to refilling. If the inspection required is not planned and the owner or operator could not have known about the inspection 30 calendar days in advance of refilling the vessel with organic HAP, the owner or operator shall notify the Administrator at least 7 calendar days prior to refilling of the storage vessel. Notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned.</p> <p>Alternatively, this notification including the written documentation may be made in writing and sent so that it is received by the Administrator at least 7 calendar days prior to the refilling. [40 CFR 63.120(b)(10)(ii)] &. [40 CFR 63.120(b)(10)(iii)]</p>