FEDERAL OPERATING PERMIT

Permit No.: **0200353**

Company: **Calnev Pipe Line, LLC**

Facility: **Barstow Terminal**

Issue date: **January 1, 2018**

Expiration date: **December 31, 2022**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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Signed and issued by
BRAD POIRIEZ
EXECUTIVE DIRECTOR/
AIR POLLUTION CONTROL OFFICER

PERMIT REVISIONS

June 10, 2024, FOP Renewal and Minor Modification:
The Mojave Desert Air Quality Management District (MDAQMD or District) received an application on June 27, 2022, proposing renewal of the Title V Permit. As a part of this permitting action, one Minor Amendment is proposed to be made to the lubricity and conductivity skid and injection system and updated tank permits to reflect this facility's utilization of the provision to comply with the inspection requirements of 40 CFR Part 63, Subpart WW as a means of compliance with the requirements of 40 CFR Part 60, Subpart Kb. Please refer to the Statement of Basis dated 06-13-2024 for full details.
Changes made by Samantha Lopez

June 16, 2022. Administrative Permit Amendment described as follows:
Removal of Mr. John Thomasson as a Responsible Official. Added new Responsible Official, Mr. William Toepfer, Director of Operations and updated current Responsible Official, Mr. Michael Pitta's title to Vice President of EHS, per facility request.

March 24, 2022, Administrative Permit Amendment described as follows:
Added new Responsible Official's information at the request of the facility (J. Pannell)

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PART I
INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name:	Calnev Pipe Line, LLC
Owner Mailing Address:	1001 Louisiana Street, 8th Floor Houston, TX 77002-5089
Facility Name:	Calnev Pipe Line, LLC - Barstow Terminal
Facility Location:	34277 Daggett-Yermo Road, Daggett, CA 92327
MDAQMD Federal Operating Permit Number:	0200353
MDAQMD Company Number:	0002
MDAQMD Facility Number:	00353
Responsible Official: Title: Phone Number: Email:	John Pannell Vice President of Operations (713) 420-4945 John_Pannell@kindermorgan.com
Responsible Official: Title: Phone Number: Email:	William Toepfer Director of Operations (909) 873-5102 Bill_Toepfer@kindermorgan.com
Facility "Site" Contact: Title: Phone Number: Email:	Jose Melendez Area Manager (760) 254-5473 Jose_Melendez@kindermorgan.com
Facility "Off Site" Contact: Title: Phone Number: Email:	Nina Mcafee Manager, EHS (713) 420-5610 Nina_Mcafee@kindermorgan.com
Environmental/Facility Contact:	Sanam Anwar

Title:	Specialist, Permitting and Compliance
Phone Number:	(713) 920-8423
Email:	Sanam_Anwar@kindermorgan.com
Nature of Business:	Petroleum and Chemical Bulk Stations and Terminals for Hire
SIC/NAICS Code:	4226 / 49319
Facility Location:	
Latitude:	34.87557
Longitude:	-116.88719

B. DESCRIPTION OF FACILITY AND PROCESSES:

This Federal Operating Permit (FOP number: 0200353) is for CALNEV Pipe Line Company - Barstow Terminal, located at 34277 Daggett-Yermo Road, Barstow, CA. The facility is a Bulk Fuel Terminal consisting of: Fourteen (14) above ground Petroleum Product Storage Tanks, two (2) Tanker Truck Loading Systems, one (1) Ethanol Tanker Truck Unloading System, two (2) Biodiesel/Renewable Diesel Unloading Systems, one (1) lubricity and conductivity skid and injection system, and one (1) Gasoline Vapor Control System. Of the fourteen storage tanks, twelve are used for high TVP organic liquids (up to 11.0 psia) and two are used for storage of low TVP organic liquids (up to 0.75 psia).

The facility receives all of its bulk fuels except denatured ethanol from their pipeline, pumping it into their storage tanks. Denatured ethanol is received by tanker truck and is offloaded by pump from the truck and stored in a high TVP storage tank.

Delivery tanker trucks receive fuel at one of two loading racks for further delivery to wholesale, retail, agricultural, and military facilities.

When the pipeline switches fuels being delivered to the facility, some mixing of the two fuels occurs. This mixed fuel, or "Transmix" is pumped into a separate storage tank. When a sufficient quantity of Transmix has accumulated, it is loaded into a tanker truck for return to the refinery where it is re-refined.

Calnev Pipe Line, LLC - Barstow Terminal is classified as a Federal Major source for VOCs and a minor source for all other Criteria Pollutants and an area source for HAPs.

C. EQUIPMENT LIST:

District Permit #	Permit Description
B000105	Tanker Loading System, Bays 1 and 2. A nine (9) station petroleum product loading system with 4-inch bottom loading arms, capable of transferring multiple petroleum products, including all grades of gasoline, denatured ethanol, Commercial Grade and Mil-Spec diesel fuels, biodiesel fuels, biofuels, Jet-A, Jet-B, Mil-Spec jet fuels, and transmix products. Emissions to the atmosphere are controlled by the fuel vapor control system described in District Permit C000106.
B000728	Tanker Loading System, Bays 3 and 4: A three (3) station petroleum product loading system with 4 inch bottom loading arms, capable of transferring multiple petroleum products, including all grades of gasoline, denatured ethanol, Commercial Grade and Mil-Spec diesel fuels, biodiesel fuels, biofuels, Jet-A, Jet-B, Mil-Spec jet fuels, and transmix products. Emissions to the atmosphere are controlled by the fuel vapor control system described in District Permit

	C000106.
B008639	Ethanol Tanker Truck Unloading System. Two (2) 4-inch unloading hoses, two high capacity submerged turbine pumps, air eliminator, strainer, high performance low fugitive emission valves, flanges and associated piping.
B013876	Biodiesel/Renewable Diesel Unloading System #1 (North): Various meters and pumps to transfer (unload) biodiesel (B100) or renewable diesel (R100) product from tanker trucks into Tanks 331 (T000097) and 325 (T000102).
B013877	Biodiesel/Renewable Diesel Unloading System #2 (South): Various meters and pumps to transfer (unload) biodiesel (B100) or renewable diesel (R100) product from tanker trucks into Tanks 331 (T000097) and 325 (T000102).
B014070	Lubricity and Conductivity Skid and Injection System: a 350-gallon tote and injection system for introducing product into biodiesel (B100), renewable diesel (R100) and, ultra-low sulfur diesel (ULSD) product prior to the tanker loading systems for lubricity control.
C000106	Gasoline Vapor Control System. Twelve (12) 4-inch loading arms, a vapor compressor, a saturator tank, a vapor holder (bladder), a HIRT model LHF 8000X thermal oxidizer, and related control and monitoring elements
T000096	Petroleum Product Storage Tank #330: Multiple product, double deck floating roof construction with a maximum capacity of 6,183 barrels
T000097	Petroleum Product Storage Tank #331: Multiple product, double deck floating roof construction with a maximum capacity of 7,402 barrels
T000098	Petroleum Product Storage Tank #332: Multiple product, double deck floating roof construction with a maximum capacity of 17,315 barrels
T000099	Petroleum Product Storage Tank #333: Multiple product, double deck floating roof construction with a maximum capacity of 17,291 barrels
T000100	Petroleum Product Storage Tank #334: Multiple product, double deck floating roof construction with a maximum capacity of 9,949 barrels
T000101	Petroleum Product Storage Tank #335: Multiple product, double deck floating roof construction with a maximum capacity of 9,959 barrels
T000102	Petroleum Product Storage Tank #325: Diesel/Low RVP product, cone roof and floating pan construction with a maximum capacity of 11,662 barrels
T000103	Petroleum Product Storage Tank #321: Multiple product, cone roof and floating pan construction with a maximum capacity of 3,760 barrels
T000104	Petroleum Product Storage Tank #322: Diesel/Low RVP product, cone roof construction with a maximum capacity of 3,015 barrels
T000723	Petroleum Product Storage Tank #320: Multiple product, floating roof construction with a maximum capacity of 12,650 barrel
T000724	Petroleum Product Storage Tank #323: Multiple product, floating roof construction with a maximum capacity of 12,673 barrels
T000725	Petroleum Product Storage Tank #324: Multiple product, fixed conical roof and floating-type pan construction with a maximum capacity of 13,600 barrels
T000726	Petroleum Product Storage Tank #300: Multiple product, fixed roof construction with a maximum capacity of 475 barrels
T000727	Petroleum Product Storage Tank #301: Gasoline additive storage, fixed roof construction with a maximum capacity of 475 barrels

Additionally, there are two small gasoline additive storage tanks, a red-dye additive tank, and a lubricity additive tank which are exempt from permitting in accordance with District Rule 219. The maximum TVP of the additives stored in these tanks does not exceed 0.2 psia.

Please note that the low TVP storage tank described in District Permit T000102 meets all regulatory requirements to store high TVP products, but the increased emissions that would result from switching will need to be fully offset prior to using that tank in high TVP applications.

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A person shall not build, erect, install, alter, replace, or operate or use any equipment, the use of which may cause the issuance of air contaminants or the use of which may reduce or control the issuance of air contaminants, without first obtaining a written permit from the Air Pollution Control Officer or except as provided in District Rule 202.
[District Rule 201 - *Permits to Construct*]

2. A permit is required to operate equipment at this facility, the use of which may cause the issuance of air pollutants or control the issuance of air pollutants except as provided in District Rule 202 or exempted from permitting requirement by District Rule 219. The equipment at this facility subject to permitting shall not be operated contrary to the conditions specified in the District permit to operate.
[District Rules 201 – *Permits to Construct* and District Rule 203 – *Permit to Operate*]

3. The Air Pollution Control Officer may impose written conditions on any permit.
[District Rule 204 – *Permit Conditions*]

4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions specified in such permit.
[District Rule 204 – *Permit Conditions*]

5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.
[District Rule 206 – *Posting of Permit to Operate*]

6. Owner/Operator shall not willfully deface, alter, forge or falsify any permit issued under District rules.
[District Rule 207 – *Altering or Falsifying of Permit*]

7. Permits are not transferable between equipment, locations or one person to another.
[District Rule 209 – *Transfer and Voiding of Permits*]

8. The Air Pollution Control Officer may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing. In the event of such requirements, the Air Pollution Control Officer shall notify the Owner/Operator in writing of the required size, number and location of sampling ports; the size and location of the sampling platform: the access to the sampling platform, and the utilities for operating the sampling and testing equipment. The platform and access shall be

constructed in accordance with the General Industry Safety Orders of the State of California.
[District Rule 217 – *Provisions for Sampling and Testing Facilities*]

9. The Air Pollution Control Officer may require the Owner/Operator to provide, properly install, maintain in calibration, in good working order and in operation, a stack monitoring system to measure air contaminants when the Owner/Operator installs, operates or uses any equipment which emits 900,000 kilograms (992 tons) per year of carbon monoxide (CO) or 90,000 kilograms (99 tons) per year or more of any air contaminant except CO.

   The records of the data obtained from the recording devices of the stack monitoring system, specified in Subsections (a) and (b) of District Rule 218, shall clearly indicate concentrations and/or emission rates as specified by the Air Pollution Control Officer. Test records shall be maintained by the Owner/Operator for a period of five years and shall be made available, upon request, to the Air Pollution Control Officer.

   A violation of emission standards of these rules, as shown by the stack monitoring system specified in Subsection (a) of District Rule 218, shall be reported by the Owner/Operator to the Air Pollution Control Officer within 96 hours.

   The Owner/Operator operating a stack monitoring system, specified in Subsection (a) or District Rule 218, shall, upon written notice from the Air Pollution Control Officer, provide a summary of the emission data obtained from such systems. The summary of the data shall be in the form and the manner prescribed by the Air Pollution Control Officer.

   The Owner/Operator operating or using a stack monitoring system required by this rule shall notify the Air Pollution Control Officer within 48 hours in the event of monitoring equipment shutdown or a breakdown of one hour duration or more.

   The Air Pollution Control Officer may inspect, as he determines to be necessary, the monitoring devices required by this rule to insure that such devices are functioning properly.

   A stack monitoring system required to be installed by this rule shall be of a type specified by the California Air Resources Board pursuant to Section 42702 of the Health and Safety Code, or of a type approved by the Air Pollution Control Officer.
   [District Rule 218 – *Stack Monitoring*]

10. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in District Rule 219 and meets the applicable criteria contained in District Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
    [District Rule 219 – *Equipment Not Requiring a Permit*]

11. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation

of this facility.
[District Rule 221 – *Federal Operating Permit Requirement*]

12. Owner/Operator shall pay all applicable MDAQMD permit fees.
[District Rule 301 – *Permit Fees*]

13. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.
[District Rule 312 – *Fees for Federal Operating Permits*]

14. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is
    (a) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
    (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke that is designated No. 1 on the Ringelmann Chart.:
    (c) Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with District Rule 401 Visible Emissions limit as indicated below:
        (i) All NSPS units (see Appendix C).
        (ii) All NESHAP units (see Appendix C).
        (iii) All solid materials handling units not subject to NSPS or NESHAP quarterly visible emissions monitoring.

    [District Rule 204 – *Permit Conditions*, District Rule 401 – *Visible Emissions*]
    [40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

15. Owner/Operator must adhere to the provisions of District Rule 403 - Fugitive Dust, including the following provisions:
    (a) A person shall not cause or allow the emissions of Fugitive Dust from any transport, handling, construction or storage activity so that the Visible Fugitive Dust remains visible in the atmosphere beyond the property line of the emission source, except during High Winds.
    (b) A person shall take every reasonable precaution to minimize Fugitive Dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
    (c) A person shall not cause or allow PM10 to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on federal reference method samplers at the property line for a minimum of five hours, except during High Winds. Installation of samplers or monitors to determine compliance with this subsection shall be required at the APCO's discretion.
    (d) The Owner/Operator of a site undergoing weed abatement activity shall not disrupt the soil crust to the extent that Visible Fugitive Dust is created due to wind erosion.
    (e) The Owner/Operator of any Construction/Demolition activities subject to this Rule shall obtain and maintain a District-approved Dust Control Plan and comply with all applicable requirements of Rule 403(C)(6) and (C)(7).
    (f) Permit conditions (a) and (c) shall not be applicable when the wind speed

instantaneously exceeds 40 kilometers (25 miles) per hour, or when the average wind speed is greater than 24 kilometers (15 miles) per hour. The average wind speed determination shall be on a 15 minute average at the nearest official air-monitoring station or by wind instrument located at the site being checked.

[District Rule 403 – *Fugitive Dust Control*]

16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in District Rule 404, Table 404 (a).
    (a) Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
    (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
    (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

    [District Rule 404 – *Particulate Matter - Concentration*]

17. Owner/Operator shall not discharge into the atmosphere from any source at this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in District Rule 405, Table 405(a).
    (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
    (b) For the purposes of this condition emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

    [District Rule 405 – *Solid Particulate Matter - Weight*]

18. Owner/Operator shall not discharge into the atmosphere, from any single source of emissions at this facility whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO_2) greater than or equal to 500 ppm by volume. A person shall not discharge into the atmosphere from any single source of emission whatsoever, any one or more of the following contaminants in any state or combination thereof, exceeding in concentration:
    (a) Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO2):
        (i) 500 ppm by volume
    (b) The following elements and compounds, which would exist as liquid or gas at standard conditions:
        (i) Hydrogen Fluoride (HF) 400 ppm by volume
        (ii) Hydrogen Chloride (HCl) 800 ppm by volume
        (iii) Hydrogen Bromide (HBr) 50 ppm by volume
        (iv) Bromine (Br) 50 ppm by volume
        (v) Chlorine (CL2) 450 ppm by volume
        (vi) Fluorine (F2) 50 ppm by volume
    (c) This rule does not apply to combined fluorides, chlorides or bromides, other than the acid version. With respect to fluorides, the rule applies only to the combustion

of hydrogen containing fuels and fluorine-containing oxidizers to form hydrogen fluoride.

[District Rule 406 – *Specific Contaminants*]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

19. Owner/Operator shall not discharge into the atmosphere from any source at this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
    (a) The provisions of this condition shall not apply to emissions from internal combustion engines.

    [District Rule 407 – *Liquid and Gaseous Air Contaminants*]

20. Owner/Operator shall not build, erect, install or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
    (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

    [District Rule 408 – *Circumvention*]

21. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 15 consecutive minutes.
    [District Rule 409 – *Combustion Contaminants*]

22. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred per District Rule 430 and the facility has elected to provide immediate notification under District Rule 430, and:
    (a) Any breakdown which results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
    (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
    (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
    (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
    (e) If the breakdown occurs outside normal District working hours the intent to file

an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer.
[District Rule 430 – *Breakdown Provisions*]

23. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 16 Parts Per Million by Volume (ppmv) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.0015 percent by weight. Compliance with Rule 431 fuel sulfur limits for PUC quality natural gas fuel can be demonstrated by continuous fuel monitoring for sulfur; annual source testing as outlined in Section (F) of this Rule; or sulfur content certification from supplier and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of Low Sulfur Diesel, shall be determined by ASTM Method D 5453, or any other equivalent method approved in writing by the APCO, CARB, and the USEPA. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) Method D 4294, D 2622, D 5453, or any other equivalent method approved in writing by the APCO, CARB, and USEPA.
[District Rule 431 - *Sulfur Content of Fuels*]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

24. The owner/operator of this facility shall meet the following emission and operating requirements:
    (a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to District Rule 442, in excess of 540 kilograms (1,190 pounds) per month at this Facility.
        (i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:
            a. Product reformulation or substitution;
            b. Process changes;
            c. Improvement of operational efficiency;
            d. Development of innovative technology;
            e. Operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).
    (b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.
    (c) The provisions of this condition shall not apply to:
        (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
        (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
        (iii) The use of pesticides including insecticides, rodenticides or herbicides.
        (iv) The use of 1,1,1 trichloroethane, methylene chloride and

trichlorotrifluroethane.

(v) Aerosol products.

(vi) VOC containing materials or equipment which is not subject to VOC limits of any rule found in District Regulation XI – Source Specific Standards.

(d) Owner/operator shall maintain daily usage records for all VOC-containing materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:

(i) The amount, type and VOC content of each solvent used; and

(ii) The method of application and substrate type; and

(iii) The permit units involved in the operation (if any).

(e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442 – *Usage of Solvents*]

25. Owner/Operator of this facility shall keep all equipment hatches subject to Rule 1102 closed at all times except during sampling, adding process material, or attended maintenance operations. Each open-ended line for this equipment that has the potential to emit vapors shall be sealed with a second valve, a blind flange, a cap or a plug, except when open end is in use.
[District Rule 1102 – *Fugitive Emissions of VOCs from Components at Pipeline Transfer Stations*]

26. Owner/Operator of this facility shall monitor all accessible components subject to Rule 1102 at least every calendar quarter for gaseous leaks in accordance with the test method specified within this rule. Components in unsafe areas shall be inspected and repaired at the next process turnaround. Inaccessible components shall be inspected at least annually. Pressure relief valves shall be inspected quarterly and within fourteen (14) calendar days after every functional pressure relief, pursuant to the test method specified within this rule. All threaded and flanged connections shall be inspected by the operator according to the test method specified in this rule immediately after assembly and annually thereafter. All accessible pumps, compressors and pressure relief valves shall be audio-visually inspected for leaks not less than daily, except for unmanned pipeline transfer stations, which shall be inspected monthly. If a leak is detected, the VOC concentration shall be determined pursuant to the test method specified in this rule. The inspection frequency for all accessible components, except pumps, compressors and pressure relief valves may be changed from quarterly to annual, provided that the conditions outlined within this rule are met. Any operator shall be in violation of this section of this rule when the leak rate of a component type exceed two (2) percent of the total number of components of that type subject to the requirements of this rule. Pressure relief valves, pumps and compressors that are equipped with a closed-vent system capable of capturing and transporting any leak to a vapor control system are not subject to these inspection requirements.
[District Rule 1102 – *Fugitive Emissions of VOCs from Components at Pipeline Transfer*

Stations]

27. Any component subject to Rule 1102 found leaking shall be repaired to a leak-free condition within fifteen days of detection. This requirement does not apply to leaking critical components, as defined in this rule. Repair of critical components shall be accomplished during the next scheduled shutdown or process turnaround of the unit, but not later than three (3) months from the date of detection. Any component leak identified by the District shall be inspected and repaired as required by this rule. The operator shall reinspect components for leaks as soon as practicable, but not later than thirty (30) days after the date on which the component is repaired and placed in service, in accordance with the test method specified in this rule.
[District Rule 1102 – *Fugitive Emissions of VOCs from Components at Pipeline Transfer Stations*]

28. Owner/Operator of this facility shall maintain an inspection and identification log for all components subject to Rule 1102, containing, at a minimum the information specified below. The log must be must be initially approved by the APCO for the purposes of inspection, repair, replacement and recordkeeping, and shall comply with the compliance schedule requirements within this rule:
    (a) All major and critical components subject to this rule shall be physically identified, clearly and visibly. The identification shall consist of labels, tags or other system which enables the District or operator to locate each individual component. The log must identify the system to be used, the affected components and their locations;
    (b) All major, critical, inaccessible and unsafe components subject to this rule, except flanges and fittings, shall be clearly identified in diagrams, as approved by the APCO;
    (c) The APCO shall be notified of any change in the identification of a major component and the operator shall document such a change in the inspection and identification log;
    (d) For each component identified pursuant to section (a) or (b) of this requirement, and for minor components subject to the provisions of this rule, the following information shall be recorded following each operator inspection:
        (i) Name, location, components types and description of any unit where leaking components are found;
        (ii) Date of leak detection, emission level (ppmv) and method of leak detection;
        (iii) Date of repair;
        (iv) Date and emission level of reinspection after leak is repaired; and,
        (v) Total number of components inspected, and total number and percentage of leaking components found, by component types.
    (e) Copies of the inspection and identification log shall be retained on site for a minimum of two years.
    (f) Copies of the inspection and identification log shall be made available to the APCO or his designee at the time of District inspection.
    [District Rule 1102 – *Fugitive Emissions of VOCs from Components at Pipeline Transfer Stations*]

29. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of District Rule 1104 when engaged in wipe cleaning, cold solvent cleaning and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products and which utilize volatile organic solvents. These requirements include, but are not limited to, the following:

VOC Content:

(a) An Owner/Operator shall not use a solvent with a VOC content that exceeds 25 grams of VOC per liter, as applied, for cleaning or surface preparation in any operation subject to this Rule.

(b) As an alternative to, or in lieu of, the above VOC limits, an Owner/Operator may use cleaning materials with a VOC composite vapor pressure limit of 8 millimeters of mercury (mm Hg) or less at 20 degrees Celsius.

Control Equipment:

(c) Owner/Operator may comply with the VOC limits above by using approved air pollution control equipment provided that the VOC emissions from such operations and/or materials are reduced in accordance with the following:

(i) The control equipment shall reduce emissions from an emission collection system by at least 95 percent (95%), by weight, or by reducing the output of the air pollution control equipment to less than 25 ppm calculated for carbon with no dilution; and

(ii) The Owner/Operator demonstrates that the system collects at least 90 percent (90%), by weight, of the emissions generated by the sources of emissions.

Cleaning Equipment and Method Requirements:

(d) An Owner/Operator shall not perform solvent cleaning unless one of the cleaning devices or methods listed below are used, and the applicable requirements that follow are used:

(i) Wipe Cleaning;

(ii) Closed containers or hand held spray bottles from which solvents are applied without a propellant-induced force;

(iii) Cleaning equipment which has a solvent container that can be, and is closed during cleaning operations, except when depositing and removing objects to be cleaned, and is closed during non-operation with the exception of maintenance and repair to the equipment itself;

(iv) Non-atomized solvent flow method where the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid pressure build-up inside the container; or

(v) Solvent flushing method where the cleaning solvent is discharged into a container which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping.

(e) All Degreasers shall be equipped with the following:

(i) An apparatus or cover(s) which reduces solvent evaporation, except for remote reservoirs.

(ii) A permanent, conspicuous label summarizing the applicable operating requirements. In lieu of a label, operating instructions may be posted near the degreaser where the Operators can access the proper operating requirements of this Rule.

(f) Remote Reservoirs shall be equipped with the following:

(i) A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of solvent within the work area.

(ii) A single or total drain hole area, not larger than 100 square centimeters (15.5 square inches) in area, for the Solvent to flow from the sink (platform/work area) into the enclosed reservoir.

(iii) If high volatility solvent is used, a drain cover/plug/closure device or a cover for placement over the top of the sink (platform/work area), when the equipment is not being used, cleaned or repaired.

(iv) A minimum sink depth of six (6) inches, as measured from the top of the drain to the top of the side of the sink.

(g) Cold Solvent Degreasers - Freeboard Requirements:

(i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.

(ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover which remains closed during the cleaning operation.

(iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50ºC (120ºF) shall operate with a freeboard ratio equal to or greater than 0.75.

(iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one (1).

(h) Cold Solvent Degreasers - Cover Requirements:

(v) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type that is designed to easily open and close without disturbing the vapor zone.

(i) Cold Solvent Degreasers - Solvent Level Identification:

(vi) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.

(j) All Degreasers shall comply with the following operating requirements:

(i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accordance with the recommendations of the manufacturer.

(ii) Degreasers shall not be operating with any detectable solvent leaks.

(iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.

(iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the

State of California; or a federally or state licensed facility to treat, store or dispose of such waste; or the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

(v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

(vi) Solvent carryout shall be minimized by the following methods:

a. Rack workload arranged to promote complete drainage

b. Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.

c. Retain the workload inside of the vapor zone until condensation ceases.

d. Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.

e. Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)

(vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.

(viii) Except for sealed chamber degreasers, all solvent agitation shall be by pump recirculation, a mixer, or ultrasonics.

(ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.

(x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.

(xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.

(xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.

(xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.

(k) District Rule 442 Applicability:

Any solvent using operation or facility which is not subject to the source-specific District Rule 1104 shall comply with the provisions of District Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of District Rule 1104 shall be subject to the applicable provisions of District Rule 442.

(l) Solvent Usage Records:

Owner/Operator subject to District Rule 1104 or claiming any exemption under District Rule 1104, Section (E), shall comply with the following requirements:

(i) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
  a. Product name(s) used in the degreaser, and
  b. The mix ratio of solvent compounds mixtures of solvents are used, and
  c. VOC content of solvent or mixture of compounds as used, and
  d. The total volume of the solvent(s) used for the facility, on a monthly basis, and
  e. The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(ii) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of District Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.

(iii) Documentation shall be maintained on site of the disposal or on site recycling of any waste solvent or residues.

(iv) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V/Federal Operating Permit.

(m) The provisions of this Rule shall not apply to:

(i) Solvent cleaning/degreasing operations using total liquid Solvent containing less than two (2) percent by weight of VOC.

(ii) Any Small Cold Solvent Degreaser with a Solvent surface area of less than 929 square centimeters (1 square foot) shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

(iii) Consumer products such as aerosol cans or small containers (one quart or smaller) unless the total accumulative use is greater than 160 ounces (five quarts) of Solvent per day. All Solvent, including Waste Solvent, Waste Solvent residues, and used applicators shall be stored in closed containers at all times. All containers for any Solvent(s) shall have a label indicating the name of the Solvent/material they contain. Waste Solvent and any residues shall be disposed of by one of the following methods: a commercial Waste Solvent reclamation service licensed by the State of California; or a federally or state licensed Facility to treat, store or dispose of such Waste; or the originating Facility may recycle the Waste Solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

(iv) Any source operation that is subject to or specifically exempted by District Regulation IV rules or which are exempt from air pollution control requirements by such rules.

(v) Film cleaning operations that use 1,1,1-trichloroethane exclusively.

(vi) The surface preparation standards in subsection (C)(1) and (C)(2) of Rule 1104 shall not apply to the following:

1. The surface preparation of electrical and electronic components, precision optics, or numismatic dies;
2. Stripping of cured Inks, Coatings and Adhesives or cleaning of resin, Coating, Ink and Adhesive mixing, molding and application.
3. Surface preparation associated with research and development operations; medical device or pharmaceutical manufacturing operations; performance testing to determine Coating, Adhesive or Ink performance; or testing for quality control or quality assurance purposes.

Any Facility classified as exempt or claiming to be exempt under Section (E), shall meet the record keeping requirements of this Rule so as to be able to prove the exemption status.
[District Rule 1104 – *Organic Solvent Degreasing Operations*]

30. Owner/Operator's use of Architectural Coatings at this facility shall comply with the applicable requirements of District Rule 1113, including, but not limited to the VOC limits specified in District Rule 1113, part C, as listed below:

Table 1
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the Coating container.

Coating Category	Effective 10/26/2020	Effective 01/01/2022
Flat Coatings	50	
Nonflat Coatings	100	50
Specialty Coatings		
Aluminum Roof Coatings	400	100
Basement Specialty Coatings	400	
Bituminous Roof Coatings	50	
Bituminous Roof Primers	350	
Bond Breakers	350	
Building Envelope Coatings		50
Concrete Curing Compounds	350	
Concrete/Masonry Sealers	100	
Driveway Sealers	50	
Dry Fog Coatings	150	50
Faux Finishing Coatings	350	
Fire Resistive Coatings	350	150

Floor Coatings	100	50
Form-Release Compounds	250	100
Graphic Arts Coatings (Sign Paints)	500	
High Temperature Coatings	420	
Industrial Maintenance Coatings	250	
Low Solids Coatings*	120	
Magnesite Cement Coatings	450	
Mastic Texture Coatings	100	
Metallic Pigmented Coatings	500	
Multi-Color Coatings	250	
Pre-Treatment Wash Primers	420	
Primers, Sealers, and Undercoaters	100	
Reactive Penetrating Sealers	350	
Recycled Coatings	250	
Roof Coatings	50	
Rust Preventative Coatings	250	
Shellacs: -Clear -Opaque	 730 550	
Specialty Primers, Sealers, and Undercoaters	100	
Stains: Exterior/Dual Interior	 250 250	 100
Stone Consolidants	450	
Swimming Pool Coatings	340	
Tire and Stone Sealers	100	
Traffic Marking Coatings	100	
Tub and Tile Refinish Coatings	420	
Waterproofing Membranes	250	100
Wood Coatings	275	
Wood Preservatives	350	
Zinc-Rich Primers	340	

*Limit is expressed as VOC Actual

(a) The provisions of District Rule 1113 do not apply to:

(i) Any Aerosol Coating Product

(ii) Any Architectural Coating that is sold in a container with a volume of (1) liter (1.057 quart) or less provided the following requirements are met:

1. The Coating container is not bundled together with other containers of the same specific Coating category (listed in Table 1) to be sold as a unit that exceeds one liter (1.057 quart) excluding containers packaged together for shipping to a retail outlet; and
2. The label or any other product literature does not suggest combining multiple containers of the same specific category (listed in Table 1) so that the combination exceeds one liter (1.057 quart).

[District Rule 1113 – *Architectural Coatings*]

31. Owner/Operator's use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, as listed below:

Owner/Operator shall not apply to wood products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 90 percent:

VOC CONTENT OF COATINGS AND ADHESIVES FOR NEW WOOD PRODUCTS

(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)

Coating Category	g/L	(lb/gal)
General	275	(2.3)
Adhesives	250	(2.1)
Clear Sealers	275	(2.3)
Clear Topcoats	275	(2.3)
Conversion Varnish	550	(4.6)
Fillers	275	(2.3)
High-Solids Stains	240	(2.0)
Inks	500	(4.2)
Low-Solids Stains, Toners and Washcoats	120	(1.0)
Medium Density Fiberboard (MDF) Coatings	275	(2.3)
Mold Seal	750	(6.3)
Multi-Colored Coatings	275	(2.3)
Pigmented Primers, Sealers and Undercoats	275	(2.3)
Pigmented Topcoats	275	(2.3)

VOC CONTENT OF COATINGS AND ADHESIVES FOR REFINISHING, REPAIRING, PRESERVING, OR RESTORING WOOD PRODUCTS

(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)

Coating Category	g/L	(lb/gal)
General	420	(3.5)
Clear Topcoats	680	(5.7)
Conversion Varnish	550	(4.6)
Fillers	500	(4.2)
High-Solids Stains	700	(5.8)

Inks	500	(4.2)
Low-Solids Stains, Toners and Washcoats	480	(4.0)
Medium Density Fiberboard (MDF) Coatings	680	(5.7)
Mold-Seal Coating	750	(6.3)
Multi-Colored Coatings	680	(5.7)
Pigmented Coatings	600	(5.0)
Sealers	680	(5.7)

[District Rule 1114 – *Wood Products Coating Operations*]

32. Owner/Operator shall apply coatings to Metal Parts and Products subject to the provisions of District Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:
    (a) Electrostatic Spray;
    (b) High Volume Low Pressure (HVLP) spray equipment;
    (c) Dip coat (including electrodeposition);
    (d) Flow Coat;
    (e) Airless Spray;
    (f) Air-assisted airless spray;
    (g) Hand Application Methods;
    (h) Other coating application methods as are demonstrated to have a Transfer Efficiency at least equal to or better than achieved by HVLP spraying; or
    (i) Equipment as approved by the APCO, the California Air Resources Board (CARB) and US EPA, provided that the Owner/Operator submits an application and demonstrates that the use of HVLP spray Equipment would result in greater emissions than the proposed system Equipment. The approval shall be limited to only those Coatings listed in the application plan.

    [District Rule 1115 – *Metal Parts & Products Coating Operations*]

33. Owner/Operator's use of Metal Parts and Products Coatings at this facility shall comply with the applicable requirements of District Rule 1115, including, but not limited to, the VOC limits specified in District Rule 1115, as listed below:
    (a) Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 90 percent:

VOC CONTENT LIMITS FOR METAL PARTS AND PRODUCTS COATINGS

Coating	**Air Dried g/L (lb/gal)**	**Baked g/L (lb/gal)**
General One-Component*	340 (2.8)	275 (2.3)
General Multi-Component*	340 (2.8)	275 (2.3)

Military Specification	340 (2.8)	275 (2.3)
Etching Filler	420 (3.5)	420 (3.5)
Solar-Absorbent	420 (3.5)	360 (3.0)
Heat-Resistant	420 (3.5)	360 (3.0)
High-Gloss	420 (3.5)	360 (3.0)
Extreme High-Gloss	420 (3.5)	360 (3.0)
Metallic	420 (3.5)	360 (3.0)
Extreme-Performance	420 (3.5)	360 (3.0)
Prefabricated Architectural One-Component	420 (3.5)	275 (2.3)
Prefabricated Architectural Multi-Component	420 (3.5)	275 (2.3)
Touch-Up	420 (3.5)	360 (3.0)
Repair	420 (3.5)	360 (3.0)
Silicone-Release	420 (3.5)	420 (3.5)
High-Performance Architectural	420 (3.5)	420 (3.5)
Camouflage	420 (3.5)	360 (3.0)
Vacuum-Metalizing	420 (3.5)	420 (3.5)
Mold-Seal	420 (3.5)	420 (3.5)
High-Temperature	420 (3.5)	420 (3.5)
Electric-Insulating Varnish	420 (3.5)	420 (3.5)
Pan-Backing	420 (3.5)	420 (3.5)

Pretreatment Wash Primer	420 (3.5)	420 (3.5)
Drum (New, Exterior)	340 (2.8)	340 (2.8)
Drum (New, Interior)	420 (3.5)	420 (3.5)
Drum (Reconditioned, Exterior)	420 (3.5)	420 (3.5)
Drum (Reconditioned, Interior)	500 (4.2)	500 (4.2)
Chemical Agent Resistant	340 (2.8)	280 (2.3)

*A General Coating is a Coating that does not meet a specific Coating category definition and is assumed to be a general use Coating and subject to the VOC limit for a General Coating.

(b) Strippers, Surface Preparation and Cleanup Solvents

(i) The requirements of this Section shall apply to any Person using Solvent for Surface Preparation, cleanup, stripping, and paint removal, including paint spray Equipment.

(ii) A Person shall not use VOC-containing materials for the cleanup of application Equipment used in coating operations, unless:

1. Application Equipment cleaning Equipment requirements:
    a. The application Equipment is disassembled and cleaned in an enclosed system during the washing, rinsing and draining processes; or
    b. The application Equipment or Equipment parts are cleaned in a container which is open only when being accessed for adding, cleaning, or removing application equipment or when cleaning material is being added, provided the cleaned Equipment or Equipment parts are drained to the container until dripping ceases; or
    c. Other application Equipment cleaning methods that are demonstrated to be as effective as the Equipment described above in minimizing emissions of VOC to the atmosphere are used, provided that the device has been approved in writing prior to use by the APCO, CARB, and USEPA.
2. Closed containers or pipes to store and convey VOC-containing cleaning and cleaning waste materials are used;
3. Spills of VOC-containing cleaning and cleaning waste materials are minimized;
4. VOC emissions are minimized during cleaning operations.

(iii) No Person shall use VOC-containing materials for surface preparation and cleanup unless:

1. The material contains 25 grams or less of VOC per liter of material (0.21 pounds per gallon); or

2. The material has an initial boiling point of 190°C (374°F) or greater; or
3. The material has a total VOC vapor pressure of 8 mm Hg or less, at 20°C (68°F).

(iv) No person shall use a Stripper on miscellaneous metal parts and products unless:
1. The Stripper contains less than 200 Grams of VOC Per Liter of Material (1.7 pounds per gallon).

(v) A person shall use closed, nonabsorbent containers for the storage or disposal of cloth, paper, or any other absorbent material used for Solvent Surface Preparation and cleanup.

(c) Owner/Operator shall not specify the use of or offer for sale in the District any Coating to be applied to any metal parts and products subject to the provisions of this Rule that does not meet the limits and requirements of this Rule. This requirement applies to all written and oral contracts.

(d) Any coating operation utilizing air pollution Control Equipment with a capture and control system Combined Efficiency of at least 90%, pursuant to Section (C)(4) of this rule, shall utilize Compliance Assurance Monitoring, as approved by the APCO, for any add-on Control Equipment used to meet the control requirement.

(i) Records of the monitoring device(s), mechanisms and/or techniques, and other data necessary to demonstrate compliance with the control requirements shall be maintained and produced upon request of the APCO, pursuant to Section (F) of this rule.

(ii) Compliance with the add-on control requirements shall be determined by source testing and/or evaluating Compliance Assurance Monitoring data.

(iii) Each monitoring device(s), mechanism and/or technique shall be calibrated/maintained in a manner approved by the APCO.

(e) The provisions of this Rule shall not apply to:

(i) The use of Aerosol Spray Cans

(f) The provisions of subsection (C)(1) of this Rule shall not apply to:

(i) Contract Painters while applying Coatings to objects on trays, provided no object has any dimension greater than 12 inches.

(ii) The application of Touch-Up coatings, Repair Coatings, Textured Finishes, Metallic Coatings which have a metallic content of more than 30 grams per liter, Mold-seal Coatings, or to facilities that use less than three (3) gallons of such Coatings per day, as applied, including and VOC-containing materials added to the original Coatings as supplied by the manufacturer.

(g) The provisions of subsections (C)(2), (C)(3) and (C)(4) of this Rule shall not apply to:

(i) Any Facility that does not exceed 2.7 tons per year Theoretical Potential Emissions of VOC, subject to meeting the certification requirements specified in subsection (E)(1) of Rule 1115 and maintaining adequate records to demonstrate exemption. Any Facility that exceeds 2.7 tons on a 12-month rolling period shall be subject to requirements of Rule 1115.

(h) The provisions of subsections (C)(1), (C)(2), (C)(3) and (C)(4) of this Rule shall not apply to:
  (i) Any Facility which has a daily usage of less than one (1) gallon of Coatings, including any VOC-containing materials added to the original Coating supplied by the manufacturer;
  (ii) Any Facility that has does not exceed 55 gallons per year of total noncompliant Coatings.
  (iii) The application of Stencil Coatings; Safety-indicating Coatings; Magnetic Data Storage Disk Coatings; Solid-film Lubricants; Adhesives; Electric-insulating and thermal conducting Coatings; coating of Motor Vehicle bodies and Motor Vehicle Rework facilities; and Electric-insulating and thermal conducting Coatings.

(i) The provisions of subsections (C)(1), (C)(2), (C)(3), (C)(4) and (C)(5) of this Rule shall not apply to:
  (i) The application of Coatings and use of cleaning Solvents while conducting Performance Tests on the Coatings at paint manufacturing facilities.

(j) The provisions of subsections (C)(1)(a)(ix) of this Rule shall not apply to:
  (i) Metal Coatings with a viscosity of 650 centipoise or greater, as applied, so long as (C)(1)(a)(x) is complied with.

Owner/Operator of any facility classified as exempt or claiming to be exempt under District Rule 1115, shall meet the record keeping requirements of District Rule 1115 so as to be able to certify the exemption status.
[District Rule 1115 – *Metal Parts & Products Coating Operations*]

34. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of District Rule 1115 shall comply with the provisions of District Rule 442 unless compliance with the limits specified in District Rule 1115 are achieved.
[District Rule 1115 – *Metal Parts & Products Coating Operations*]

35. Owner/Operator subject to Part II, Section A, conditions A.32 through A.34 shall comply with the following requirements:
(a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
  (i) coating, catalyst, and reducer used.
  (ii) mix ratio of components used.
  (iii) VOC content of coating as applied.
(b) Owner/Operator shall maintain records on a daily basis, by permit unit, including:
  (i) coating and mix ratio of components used in the coating; and
  (ii) quantity of each coating applied.
(c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
(d) The VOC content of Coatings subject to this Rule, including Coating constituents, shall be provided by the manufacturer and maintained either on Coatings containers or on separate data sheets.
(e) Records shall be retained (at facility) and available for inspection by District, state or

federal personnel for the previous 5 year period as required by this Title V/Federal Operating Permit.

[District Rule 1115 – *Metal Parts & Products Coating Operations*]

36. A violation of the limits contained in Part II, Conditions A.33, as determined by any of the following specified *Reference Method Tests* shall constitute a violation of applicable Part II conditions. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.32 through A.35, as required by District Rule 1115:

(a) The VOC content of coatings and solvents, as specified in subsections (C)(2), (C)(3), (C)(5)(c)(i) and (C)(5)(d)(i) of this Rule, shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.

(b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(5)(c)(ii), shall be conducted in accordance with ASTM D1078-86.

(c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(5)(c)(iii) of this Rule shall be conducted in accordance with ASTM D2879-97. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-97 shall be corrected for partial pressure of water and exempt compounds.

(d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(5)(b)(i)(c) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems" (10/03/1989).

(e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.

(f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311-91".

(g) Capture Efficiency shall be determined according to USEPA's technical document, "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions (02/07/95).

(h) The control efficiency of the Control Equipment shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at the inlet and outlet of the emissions Control Equipment, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine emissions of exempt compounds.

(i) Measurement of solids content by weight of a substance shall be conducted in accordance with ASTM D1475-90.

(j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.

(k) Demonstration of Transfer Efficiency of alternative application methods subject to District Rule 1115 subsection (C)(1)(a)(ix) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89).

[District Rule 1115 – *Metal Parts & Products Coating Operations*]
[40 CFR 70.6 (a)(3)(i)(B)]

37. The owner/operator shall comply with all applicable provisions of District Rule 1168 – *Adhesive and Sealant Applications*, including but not limited to, the VOC limits specified below:

(a) Owner/operator shall not apply Adhesives, Adhesive Primers, Sealants, Sealant Primers, or any other Primer which have a VOC content in excess of the limits specified in Table 1 of District Rule 1168, as summarized below:

Application Process	VOC Emission Limit Less Water and Less Exempt Compounds in g/L (lb/gal)
General Adhesive*	
Fiberglass	80 (0.7)
Flexible Vinyl	250 (2.1)
Metal	30 (0.3)
Plastic Foams	50 (0.4)
Porous Material (Except Wood)	50 (0.4)
Pre-formed Rubber Products	250 (2.1)
Reinforced Plastic Composite	200 (1.7)
Rubber	250 (2.1)
Wood	30 (0.3)
Other Substrates	250 (2.1)
Specialty Adhesive	
Building Envelope Membrane	250 (2.1)
Carpet Pad	50 (0.4)
Ceramic Tile Installation	65 (0.5)
Contact Adhesive	80 (0.7)
Contact Adhesive – Special Purpose	250 (2.1)
Cove Base Installation	50 (0.4)
Drywall and Panel	50 (0.4)
Edge Glue	250 (2.1)
Elastomeric	750 (6.3)
Floor Covering Installation (Indoor)	150 (1.3)

Floor Covering Installation (Outdoor)	250 (2.1)
Immersible Product Manufacturing	650 (5.4)
Indoor Carpet	50 (0.4)
Metal to Urethane/Rubber Molding or Casting	850 (7.1)
Motor Vehicle	250 (2.1)
Motor Vehicle Weatherstrip	750 (6.3)
Multipurpose Construction	70 (0.6)
Non-membrane Roof Installation/Repair	300 (2.5)
Other Flooring	50 (0.4)
Perimeter Bonded Sheet Vinyl	660 (5.5)
Plastic Solvent Welding	
ABS	325 (2.7)
ABS to PVC Transition	510 (4.3)
Cellulose	100 (0.8)
CPVC	490 (4.1)
PVC	510 (4.3)
Styrene-Acrylonitrile	100 (0.8)
All Other Plastic Solvent Welding	250 (2.1)
Rubber Floor	60 (0.5)
Sheet Rubber Lining Installation	850 (7.1)
Single-Ply Roof Membrane Installation/Repair	250 (2.1)
Structural Glazing	100 (0.8)
Structural Wood Member	140 (1.7)
Subfloor	50 (0.4)
Thin Metal Laminating	780 (6.5)
Tire Retread	100 (0.8)
Top and Trim	540 (4.5)
Traffic Marking Tape	150 (1.3)
VCT and Asphalt Tile	50 (0.4)
Waterproof Resorcinol Glue	170 (1.4)
Wood Flooring	100 (0.8)
Adhesive Primer	
Motor Vehicle Glass Bonding	900 (7.5)
Plastic Solvent Welding	550 (4.6)
Single-Ply Roof Membrane	250 (2.1)
Traffic Marking Tape	150 (1.3)
Other Adhesive Primer	250 (2.1)
Sealant Primers	
Architectural – Non-Porous	250 (2.1)
Architectural – Porous	775 (6.5)
Modified Bituminous	500 (4.2)

Other Sealant Primers	750 (6.3)
Sealants	
Architectural	250 (2.1)
Non-membrane Roof	300 (2.5)
Non-staining Plumbing Putty	150 (1.3)
Potable Water	100 (0.8)
Roadway	250 (2.1)
Single-Ply Roof Membrane	450 (3.8)
All Other Architectural Sealants	50 (0.4)
All Other Roof Sealants	300 (2.5)
All Other Sealant	420 (3.5)

[District Rule 1168 – *Adhesive and Sealant Applications*]

38. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - Federal Operating Permits).
[District Regulation XII – *Federal Operating Permits*]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this Federal Operating Permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data or logs shall be supplied to District, state or federal personnel upon request.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]

2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual*. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence.
[District Rule 204]

3. Owner/Operator of all permitted fuel burning units subject to Comprehensive Emissions Inventory Report/Annual Emissions Determinations for District, State, and Federal required Emission Inventories shall monitor and record the following for each unit:
   (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
   (b) Fuel suppliers' fuel analysis certification/guarantee for each shipment or by

contract term including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement is sufficient.

The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]
[California Clean Air Act, Health and Safety Code §§39607 and §§44300, 44341-44342et seq.]
[40 CFR 51 – Subpart A, 70.6(a)(3)(B)]
[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)]

4. Owner/Operator shall submit, annually, a *Compliance Certification* as prescribed by District Rule 1203(F)(1) and District Rule 1208 to the APCO/District, with a copy to the USEPA, Region IX Administrator. The *Compliance Certification*, submitted by a Responsible Official, shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry that the statements and information in the document are true, accurate, and complete.
[District Rule 1203(D)(1)(g)(v-x); District Rule 1203(F)(1); District Rule 1208]
[40 CFR 72.90.a; 40 CFR 70.6(c)(5)(i)]
   (a) Owner/Operator shall include in any *Compliance Certification* the methods used for monitoring such compliance.
   [District Rule 1203(D)(1)(g)(viii)]
   [40 CFR 70.6(c)(5)(ii)]
   (b) Owner/Operator, when submitting any *Compliance Certification(s)* to the District, shall contemporaneously submit such *Compliance Certification(s)* to USEPA Region IX Administrator.
   [District Rule 1203(D)(g)(ix)]
   [40 CFR 70.6(5)(iii)]
   (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated hereunder.
   [District Rule 1203 (D)(1)(g)(x)]
   (d) The annual certification period is January 1st through December 31st and shall be submitted no later than January 31st of each year.

5. Owner/Operator shall submit, semi-annually, a *Monitoring Report* to the APCO/District, with a copy to the USEPA, Region IX Administrator. This *Monitoring Report* shall be certified to be true, accurate, and complete by a Responsible Official and shall include the following information and/or data:
   (a) Summary of deviations from any federally-enforceable requirement in this permit.

(b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
(c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) specified in this permit to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
(d) The semi-annual reporting period shall be submitted as follows:
(i) July 1st through December 31st, due no later than January 31st of each year; and,
(ii) January 1st through June 30th, due no later than July 31st of each year.

[District Rule 1203(D)(1)(c)(i - iii); District Rule 1203(D)(1)(d)(i); District Rule 1203(D)(1)(e)(i - ii); District Rule 1203(D)(1)(g)(v - x)]

6. Owner/Operator shall promptly report all deviations from federal operating permit requirements including, but not limited to; any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation.
[District Rule 1203(D)(1)(e)(ii)]
Prompt reporting shall be determined as follows:
(a) For deviations involving emissions of air contaminants in excess of permit conditions including those caused by a breakdown, a facility may elect to provide immediate notification under District Rule 430, if the District Rule 430 provisions apply. However, in case of deviations involving emissions of air contaminants in excess of permit conditions, if the facility does not qualify for District Rule 430 immediate notification or does not elect to perform immediate notification under District Rule 430, then prompt reporting shall be within 72 hours of the occurrence of the excess emission or within 72 hours of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [40 CFR 70.6(g)]
(b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with the required *Monitoring Reports* at least every six (6) months.

[District Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall submit a *Schedule of Compliance*. In addition, the Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with District Rule 1201(I)(3)(iii) and shall include:

(a) A narrative description of how the facility will achieve compliance with such requirements; and

(b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order or administrative order relating to any Applicable Requirements/federally-enforceable requirements that is issued by any appropriate judicial body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

(c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [District Rule 1201 (I)(3)(iii); District Rule 1203 (D)(1)(g)(v)]

8. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, annually and upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

C. FACILITY-WIDE COMPLIANCE CONDITIONS:

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]

2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]

3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]

4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]

5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[Rule 1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[Rule 1201(I)(2); Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall ensure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and with the requirements of 40 CFR 61.140 through 61.157 of subpart M, Asbestos for all demolition and renovation projects.
[40 CFR 61, subparts A and M]

8. Owner/Operator shall ensure that all applicable subject processes comply with the provisions of 40 CFR 60, subpart A, *General Provisions*, and with the requirements of 40 CFR 60, subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984*.
[40 CFR 60, subparts A and Kb]

9. Owner/Operator shall ensure that all applicable subject processes comply with the provisions of 40 CFR 60, subpart A, *General Provisions*, and with the requirements of 40 CFR 60, subpart XX, *Standards of Performance for Bulk Gasoline Terminals*.
[40 CFR 60, subparts A and XX]

10. Owner/Operator shall ensure that all applicable subject processes comply with the provisions of 40 CFR 63, subpart A, *General Provisions*, and with the requirements of 40 CFR 63, subpart BBBBBB, *National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities*.
[40 CFR 63, subparts A and BBBBBB]

11. Owner/Operator shall ensure that all applicable subject processes comply with the provisions of 40 CFR 63, subpart A, *General Provisions*, and with the requirements of 40 CFR 63, subpart WW, *National Emission Standards for Storage Vessels (Tanks) – Control Level 2*.
[40 CFR 63, subparts A and WW]

12. Owner/Operator shall comply with all requirements of District Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*. Specifically, the Owner/Operator shall

include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.
[District Rule 1211]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS

A. PROCESS 1: TANKER TRUCK LOADING

Conditions Applicable to Tanker Loading Systems B000105 and B000728:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rules 204 and 1303]

2. This loading system must be vented to the fully functional and properly operating air pollution control equipment operating under valid District Permit C000106.
[District Rules 1303 and 1320]

3. [For B000105 Only] The combined total volume of petroleum products transferred to cargo tanks from both this system and the system described in District Permit B000728 shall not exceed 1,000,000 gallons per day.
[District Rule 1303]

3. [For B000728 Only] The combined total volume of petroleum products transferred to cargo tanks from both this system and the system described in District Permit B000105 shall not exceed 1,000,000 gallons per day.
[District Rule 1303]

4. [For B000105 Only] The combined total volume of product transferred to cargo tanks from both this system and the system described in District Permit B000728 shall not exceed 72,000 gallons per hour.
[District Rule 1303]

4. [For B000728 Only] The combined total volume of product transferred to cargo tanks from both this system and the system described in District Permit B000105 shall not exceed 72,000 gallons per hour.
[District Rule 1303]

5. A non-resettable meter, either mechanical or digital, shall be installed to indicate hourly and daily loading, in gallons.
[District Rule 1303]

6. Gasoline shall only be loaded into tanker truck cargo tanks that are vapor tight as specified in 40 CFR 60.502(e) through (j).
[40 CFR 60.502, 40 CFR 63.11088]

7. Each open-ended line that has the potential to emit vapors shall be sealed with a second valve, a blind flange, a cap or a plug when not in use.
[District Rule 1102(C)(2)]

8. A pressure gauge shall be installed in the vapor return line and the pressure at this point shall not exceed eighteen (18) inches of water during cargo tank loading.
[ARB CP-203, District Rules 1303 and 1320]

9. The owner/operator shall maintain a log of all inspections, repairs, and maintenance on this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request.
[40 CFR 63.10(b)]

10. The owner/operator shall maintain a throughput log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
    a. Product Name and CAS Number;
    b. Amount transferred, in gallons;
    c. Monthly totals of each product transferred;
    d. Running 12 consecutive month totals of each product transferred; and
    e. Maximum vapor return line gauge pressure during cargo tank loading, in inches of water.

    [40 CFR 70.6(a)(3)(ii)(b), District Rule 462]

11. A person shall not sell or supply for use within the District as a fuel for motor vehicles as defined by the Vehicle Code of the State of California, gasoline having a degree of unsaturation greater than that indicated by a Bromine Number of 30 as determined by ASTM Method D1159-66.
[District Rule 432]

12. Any component found leaking shall be repaired to a leak-free condition within fifteen (15) days of detection unless otherwise allowed by District Rule 1102. Furthermore, the date each leak was detected, the date the leak was repaired, and the repair actions taken shall be logged as required in Condition #6 above.
[District Rule 1102, 40 CFR 63.10(b)]

13. The vapor control system (see MDAQMD permit no. C000106) that the Volatile Organic Compound (VOC) emissions from this loading rack are required to be vented to shall maintain a minimum destruction efficiency of 95% Additionally, VOC

emissions from this vapor control system system shall not exceed 0.08 pounds per 1,000 gallons transferred into cargo tanks via the Loading Racks.
[CARB Certification Procedure 203, District Rules 462 and 1303]
Note: Initial Certification testing conducted in 2002 demonstrated an emission rate of 0.037 lb total hydrocarbons/1,000 gallons and a destruction efficiency of 99.2%

14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, annually and upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

B. PROCESS 2: ETHANOL TANKER TRUCK UNLOADING

Conditions Applicable to Ethanol Tanker Unloading System B008639:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rules 204 and 1303]

2. This unloading system shall only transfer denatured ethanol to the organic liquid storage tank operating under valid District Permit T000096 (Tank 330).
[District Rules 462 and 1303]

3. The owner/operator shall maintain a log of all inspections, repairs, and maintenance on this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall contain, as a minimum, the following requirements from District Rule 1102:
a. Inspection Requirements in accordance with District Rule 1102(D);
b. Repair Requirements in accordance with District Rule 1102(E); and
c. Recordkeeping and Reporting Requirements in accordance with District Rule 1102(G)(1).
[40 CFR 70.6(a)(3)(ii)(b), District Rules 462 and 1102]

4. Test methods for compliance verification shall be in accordance with District Rule 1102(H).
[District Rule 1102]

5. The vapor balance line shall be connected to the tanker truck during all offloading operations.
[District Rules 1303 and 1320]

C. PROCESS 3: GASOLINE VAPOR CONTROL SYSTEM

Conditions Applicable to Gasoline Vapor Control System C000106:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. This control system must be fully functional and properly operating whenever tanker truck loading at the loading racks described in District Permits B001005 or 000728 is taking place.
[District Rules 1302 and 1520]

3. The pilot light for this unit shall only be fired on Commercial Grade LPG/Propane with a maximum sulfur content of 185 ppmw.
[District Rules 431 and 1320]

4. A thermocouple shall be installed in the HIRT Thermal Oxidizer's exhaust stack and the temperature shall be continuously monitored and recorded in accordance with the approved CAM plan. Furthermore, the system shall alarm or be automatically shut down whenever the temperature drops below 1,000 degrees Fahrenheit.
[40 CFR 63.11092 and 40 CFR 64]

5. Replacement of or major repairs to the system's motor or compressor assemblies will require a new source test to be completed within ninety (90) days of occurrence to verify system performance is consistent with the initial certification conducted by the ARB. Major repairs are defined as those costing more than 50% of the replacement cost of each assembly. Source testing shall be conducted in accordance with the currently approved Source Test Protocol on file with the District.
[40 CFR 63.11092, ARB CP-203, District Rule 462]

6. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) for this vapor control system used to control VOC emissions from the pollutant-specific emission units under MDAQMD permit nos. B000105 and B000728. As such, the operation of this permit unit must be in accordance with an approved CAM plan. The operations log shall include, at a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. Records of vapor holder bladder height alarms and related actions;
b. Records of thermal oxidizer low temperature alarms and related actions;
c. Records of all inspections, maintenance, and repairs to the primary devices, including the dates and times any temporary vapor control equipment was employed as well as copies of District notifications of the impending use of temporary vapor control equipment;

d. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions; and,
e. Records of all excursions, as defined within the approved CAM plan, and corrective actions taken.
[40 CFR 63.11092, 40 CFR 63.11094, 40 CFR 64, District Rule 462]

7. If the vapor holding tank bladder height reaches 12 feet, an alarm shall actuate in the facility control room and automatically interrupt cargo tank loading at the loading racks. The system shall not return control to the loading racks until the vapor blower and thermal oxidizer operate in conjunction for a period of no less than five (5) minutes.
[40 CFR 63.11092, District Rule 462 and 1303]

8. When any of the saturator-condenser tank, vapor holder, gas compressor, blower, thermal oxidizer, or related control elements are out of service due to breakdown or maintenance, any temporary Vapor Combustion System used to process vapors must be capable of meeting the requirements of 40 CFR 63.11092 and 40 CFR 60.503, and have a displaced gasoline vapor destruction efficiency of no greater than 0.08 lb per 1,000 gallons of product loaded.
[40 CFR 63.11092, ARB CP-203]

9. Prior to the operation of any compliant temporary Vapor Combustion System, the owner/ operator shall:
a. Report the intent to use temporary devices to the District no later than one week prior to the scheduled shutdown of the primary device(s), or as soon as possible if the use of the temporary devices is a result of an emergency;
b. The reporting person shall provide to the District an estimate of the repair/maintenance time of the primary unit(s); and
c. The reporting person shall provide to the District information as to the nature of the repairs and/or maintenance of the primary device(s).
[District Rule 462]

10. Operation of any temporary Vapor Combustions System shall include a monitor to ensure the pilot light is constantly lit.
[40 CFR 63.11092]

11. Visible emissions from this equipment shall not exceed Ringelmann 1 (20%) opacity for a period or periods aggregating more than three minutes in any one hour.
[District Rule 401]

12. Volatile Organic Compound (VOC) emissions from this system shall not exceed 0.08 pounds per 1,000 gallons transferred into cargo tanks via the Loading Racks identified in District Permits B000105 and B000728. Furthermore, this system shall maintain a minimum destruction efficiency of 95%
[CARB Certification Procedure 203, District Rules 462 and 1303]
Note: Initial Certification testing conducted in 2002 demonstrated an emission rate of 0.037 lb total hydrocarbons/1,000 gallons and a destruction efficiency of 99.2%

D. PROCESS 4: PRODUCT STORAGE AND TRANSFER

Conditions Applicable to the Floating Roof Storage Tanks ~~T000096,~~ T000097, T000098, T000099, T000100, T000101, T000723, and T000724:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. The maximum True Vapor Pressure (TVP) of organic liquids stored in this tank shall not exceed 11.0 psia (75.9 kPa) under storage conditions.
[40 CFR 60.112b, Rule 463(C)(1)(a)(viii)]

3. The roof shall be floating on the stored liquid at all times, except when the floating roof is supported by its leg supports or other support devices (e.g. hangers from the fixed roof). When the storage vessel is storing liquid, but the liquid depth is insufficient to float the floating roof, the process of filling to the point of refloating the floating rood shall be continuous and shall be performed as soon as practical. ~~except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.~~
[40 CFR 63.1063(b)~~40 CFR 60.112b~~]

4. The accumulated area of gaps between the tank wall and the primary seal shall not exceed 212 square centimeters per meter (10 square inches per foot of vessel diameter) of tank diameter, and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).
[40 CFR 63.1063(d)(3)(ii)~~40 CFR 60.113b~~]

5. The ratio~~accumulated area~~ of seal gap area to vessel diameter for ~~gaps between the tank wall and~~ the secondary seal shall not exceed 21.2 square centimeters per meter (1.0 square inch per foot) ~~of tank diameter~~, and the maximum gap ~~width of any portion of any gap~~ shall not exceed 1.27 centimeters (0.5 inches), except when the secondary seal must be pulled back or removed to inspect the primary seal.
[40 CFR 63.1063(d)(3)(iii)~~40 CFR 60.113b~~]

6. Inspections~~Measurements~~ of ~~gaps between the tank wall and~~ the primary seal shall be performed ~~during hydrostatic testing of the tank,~~ within 960 days of an initial fill of the tank, and at least once every five (5) years thereafter, in accordance with the procedure requirements specified in 40 CFR 63.1063(d)(3).
[40 CFR 63.1063(d)(2)~~40 CFR 60.113b~~]

7. Inspections of ~~Measurements of gaps between the tank wall and~~ the secondary seal shall be performed within 9~~6~~0 days of an initial fill of the tank, and at least once per year thereafter, in accordance with the procedure requirements specified in 40 CFR 63.1063(d)(3).
[40 CFR 63.1063(c)(2)~~40 CFR 60.113b~~]

8. The external floating roof shall be inspected each time this storage vessel is completely emptied and degassed, or every 10 years, whichever occurs first, as specified in 40 CFR 63.1063(d)(1).
[40 CFR 63.1063(c)(2)(iii)]

9. If the owner or operator determines that it is unsafe to perform the floating roof primary and secondary seal inspections specified within 40 CFR 63.1063(c)(2)(i) and 40 CFR 63.1063(c)(2)(ii), the owner or operator must either:
a. Perform the inspections no later than 30 days after the determination that the floating roof is unsafe; or,
b. Remove the storage vessel from liquid service no later than 45 days after determining that the floating roof is unsafe.
If the vessel cannot be emptied within 45 days, the owner or operator may utilize up to two extensions of up to 30 additional days each. If the vessel cannot be emptied within 45 days, the owner or operator may utilize up to two extensions of up to 30 additional days each. Documentation of a decision to use an extension shall include an explanation of why it was unsafe to perform the inspection, documentation that alternative storage capacity is unavailable, and a schedule of actions that will ensure that the vessel will be emptied as soon as practical.
[40 CFR 63.1063(c)(2)(iv)]

10. Conditions causing seal inspections failures under 40 CFR 63.1063(d) shall be repaired as specified:
a. If the inspection is performed while the storage vessel is not storing liquid, repairs shall be completed before the refilling of the storage vessel with liquid; and,
b. If the inspection is performed while the storage vessel is storing a liquid, repairs shall be completed or the vessel removed from service within 45 days.
If a repair cannot be completed and the vessel cannot be emptied within 45 days, the owner or operator may use up to 2 extensions of up to 30 additional days each. Documentation of a decision to use 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 completely emptied as soon as practical.
[40 CFR 63.1063(e)]

11. Owners or operators who choose to comply with 40 CFR Part 63, Subpart WW, must maintain the following records and furnish the following reports:
a. For each affected facility, the owner or operator must notify the District at least 30 days before the first inspection is conducted under 40 CFR Part 63, Subpart WW. After this notification is submitted to the District, the owner or operator must continue to comply with the alternative standard described within 40 CFR 60.110b(e)(5) until the

owner or operator submits another notification to the District indicated the affected facility is using the requirements of 40 CFR 60.112b through 60.117b instead of the alternative standard described within 40 CFR 60.110b(e)(5). The compliance schedule for events does not reset upon switching between compliance with 40 CFR Part 60, Subpart Kb and 40 CFR Part 63, Subpart WW;

b. Records of each affected facility using the alternative standard described within 40 CFR 60.110b(e)(5) when conducting an inspection required by 40 CFR 63.1063(c)(1);

c. Records of each affected facility using the alternative standard described within 40 CFR 60.110b(e)(5) when conducting an inspection required by 40 CFR 63.1063(c)(2);

d. Copies of all records and reports pursuant to 40 CFR 60.115b(a) and (b) that have not met the 2-year record retention required by the introductory text of 40 CFR 60.115b must be kept for an additional 2 years after the date of submittal of the inspection notification, pursuant to 40 CFR 60.110b(e)(5)(iv)(A), indicating the affected facility is using the requirements of 40 CFR Part 63, Subpart WW; and,

e. Copies of all records and reports pursuant to 40 CFR 63.1065 that have not met the 5-year record retention required by the introductory text of 40 CFR63.1065 must be kept for an additional 5 years after the date of submittal of the notification, pursuant to 40 CFR 60.110b(e)(5)(iv)(A), indicating the affected facility is using the requirements of 40 CFR Part 60.112b through 60.117b.

Please note: The reference in 40 CFR 63.1066(b)(2) to periodic reports "when inspection failures occur" means to submit inspection results within 60 days of the initial gap measurements required by 40 CFR 63.1063(c)(2)(i) and within 30 days of all other inspections required by 40 CFR 63.1063(c)(1) and (2).

[40 CFR 60.110b(e)(5)(iv)]

128. All gauge hatches, roof supports, manholes, automatic bleeder vents, rim vents and gauge wells shall be equipped with vapor-tight seals or breather vents set at no less than 10% of the maximum allowable working pressure of the roof.
[District Rule 463]

139. All openings in the tank roof shall be equipped with a projection, which extends below the liquid surface.
[District Rule 463]

140. Roof drains shall be equipped with slotted membrane fabric cover, or equivalent, which covers at least 90% of the drain area.
[District Rule 463]

151. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:

a. The aggregated total amount of petroleum products transferred from the supplying pipelines and tanker trucks into all storage tanks combined, by product type and CAS, in gallons;

b. Average volume of petroleum products stored onsite;

c. Storage and transfer temperatures of petroleum products, in degrees Fahrenheit;
d. Monthly summary of incoming and outgoing petroleum product throughput, in gallons;
e. Running consecutive twelve (12) month summary of incoming and outgoing petroleum product throughput, in gallons;
f. Records of all primary and secondary seal inspections;
g. Records of all maintenance or repairs to the tank and to the primary and secondary seals, including the dates and times any temporary vapor control equipment was employed, including mobile degassing equipment;
h. Records of all tank emptyings and refillings; and
i. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 463]

Conditions Applicable to the Cone Roof / Floating Pan Storage Tank T000102 and the Cone Roof Storage Tank T000104:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. The maximum True Vapor Pressure (TVP) of organic liquids stored in this tank shall not exceed 0.75 psi (5.2 kPa) under actual storage conditions.
[40 CFR 60.112b, Rule 463(C)(1)]

3. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. The aggregated total amount of petroleum products transferred from the supplying pipelines and tanker trucks into all storage tanks combined, by product type and CAS, in gallons;
b. Average volume of petroleum products stored onsite;
c. Storage and transfer temperatures of petroleum products, in degrees Fahrenheit;
d. Monthly summary of incoming and outgoing petroleum product throughput, in gallons;
e. Running consecutive twelve (12) month summary of incoming and outgoing petroleum product throughput, in gallons;
f. Records of all inspections;
g. Records of all maintenance and repair procedures;
h. Records of all tank emptyings and refillings; and

i. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 463]

Conditions Applicable to Cone Roof / Internal Floating Pan Storage Tanks T000103 and T000725 and Internal Floating Roof Storage Tank T000096:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. The maximum True Vapor Pressure (TVP) of organic liquids stored in this tank shall not exceed 11.0 psia (75.9 kPa) under storage conditions.
[40 CFR 60.112b, District Rule 463(C)(1)(a)(viii)]

3. The roof shall be floating on the stored liquid surface at all times, except when the floating roof is supported by its leg supports or other support devices (e.g. hangers from the fixed roof). When the storage vessel is storing liquid, but the liquid depth is insufficient to float the floating roof, the process of filling to the point of refloating the floating roof shall be continuous and shall be performed as soon as practical. ~~(i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible~~.
[40 CFR 63.1063(b)~~40 CFR 60.112b~~]

~~4. The accumulated area of gaps between the tank wall and the primary seal shall not exceed 212 square centimeters per meter (10 square inches per foot) of tank diameter, and the width of any portion of any gap shall not exceed 3.81 centimeters (1.5 inches).
[40 CFR 60.113b]~~

~~5. The accumulated area of gaps between the tank wall and the secondary seal shall not exceed 21.2 square centimeters per meter (1.0 square inch per foot) of tank diameter, and the width of any portion of any gap shall not exceed 1.27 centimeters (0.5 inches).
[40 CFR 60.113b]~~

4~~6~~. Visual Inspections of the internal floating roof shall be performed before the initial fill of the tank, and;

a. At least once per year as specified in 40 CFR 63.1063(d)(2); and,

b. Each time the storage vessel is completely emptied and degassed, or every ten (10) years, whichever occurs first, as specified in 40 CFR 63.1063(every five (5) years thereafter, in accordance with the procedure requirements specified in 40 CFR 63.1063(d)(3).

Internal Floating Roofs with two rim seals may be inspected as specified in 40 CFR

63.1063(d)(1) in lieu of the inspection frequency listed above each time the storage vessel is completely emptied and degassed, or every 5 years, whichever occurs first.
[40 CFR 63.1063(c)(2)~~40 CFR 60.113b~~]

5. Internal Floating Roof inspections shall be conducted by visually inspecting the floating roof deck, deck fittings, and rim seals from within the storage vessel. The inspection may be performed entirely from the top side of the floating roof, as long as there is visual access to all deck components specified in 40 CFR 60.1063(a)(1)(i). Any of the conditions below constitutes inspection failure:
a. Stored liquid on the floating roof;
b. Holes or tears in the primary or secondary seal (if one is present);
c. Floating roof deck, deck fittings, or rim seals that are not functioning as designed (as specified in 40 CFR 63.1063(a);
d. Failure to comply with the operational requirements of 40 CFR 63.1063(b); and,
e. Gaps of more than 0.32 centimeters (1/8 inch) between any deck fitting, gasket, seal, or wiper (required by 40 CFR 63.1063(a)) and any surface that it is intended to seal.
[40 CFR 63.1063(d)(1)]

6. Tank top inspections of Internal Floating Roofs shall be conducted by visually inspecting the floating roof deck, deck fittings, and rim seal through openings in the fixed roof. Any of the conditions below constitutes inspection failure:
a. Stored liquid on the floating roof;
b. Holes or tears in the primary or secondary seal (if one is present);
c. Floating roof deck, deck fittings, or rim seals that are not functioning as designed (as specified in 40 CFR 63.1063(a);
d. Failure to comply with the operational requirements of 40 CFR 63.1063(b); and,
e. Gaps of more than 0.32 centimeters (1/8 inch) between any deck fitting gasket, seal, or wiper (required by 40 CFR 63.1063(a)) and any surface that it is intended to seal.
Identification of holes or tears in the rim seal is required only for the seal that is visible from the top of the storage vessel.
[40 CFR 63.1063(d)(2)]

7. Conditions causing seal inspections failures under 40 CFR 63.1063(d) shall be repaired as specified:
a. If the inspection is performed while the storage vessel is not storing liquid, repairs shall be completed before the refilling of the storage vessel with liquid; and,
b. If the inspection is performed while the storage vessel is storing a liquid, repairs shall be completed or the vessel removed from service within 45 days.
If a repair cannot be completed and the vessel cannot be emptied within 45 days, the owner or operator may use up to 2 extensions of up to 30 additional days each. Documentation of a decision to use 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 completely emptied as soon as practical.
[40 CFR 63.1063(e)]

8. Owners or operators who choose to comply with 40 CFR Part 63, Subpart WW, must

maintain the following records and furnish the following reports:

a. For each affected facility, the owner or operator must notify the District at least 30 days before the first inspection is conducted under 40 CFR Part 63, Subpart WW. After this notification is submitted to the District, the owner or operator must continue to comply with the alternative standard described within 40 CFR 60.110b(e)(5) until the owner or operator submits another notification to the District indicated the affected facility is using the requirements of 40 CFR 60.112b through 60.117b instead of the alternative standard described within 40 CFR 60.110b(e)(5). The compliance schedule for events does not reset upon switching between compliance with 40 CFR Part 60, Subpart Kb and 40 CFR Part 63, Subpart WW;

b. Records of each affected facility using the alternative standard described within 40 CFR 60.110b(e)(5) when conducting an inspection required by 40 CFR 63.1063(c)(1);

c. Records of each affected facility using the alternative standard described within 40 CFR 60.110b(e)(5) when conducting an inspection required by 40 CFR 63.1063(c)(2);

d. Copies of all records and reports pursuant to 40 CFR 60.115b(a) and (b) that have not met the 2-year record retention required by the introductory text of 40 CFR 60.115b must be kept for an additional 2 years after the date of submittal of the inspection notification, pursuant to 40 CFR 60.110b(e)(5)(iv)(A), indicating the affected facility is using the requirements of 40 CFR Part 63, Subpart WW; and,

e. Copies of all records and reports pursuant to 40 CFR 63.1065 that have not met the 5-year record retention required by the introductory text of 40 CFR63.1065 must be kept for an additional 5 years after the date of submittal of the notification, pursuant to 40 CFR 60.110b(e)(5)(iv)(A), indicating the affected facility is using the requirements of 40 CFR Part 60.112b through 60.117b.

Please note: The reference in 40 CFR 63.1066(b)(2) to periodic reports "when inspection failures occur" means to submit inspection results within 60 days of the initial gap measurements required by 40 CFR 63.1063(c)(2)(i) and within 30 days of all other inspections required by 40 CFR 63.1063(c)(1) and (2).

[40 CFR 60.110b(e)(5)(iv)]

9. The concentration of volatile organic compounds in the vapor space above the internal floating roof shall be measured by an explosimeter at least once in every twelve month period. The readings shall not exceed thirty (30) percent of the lower explosive limit (LEL) and results of all such tests shall be made available to District, State, and Federal personnel upon request.
[District Rule 463(C)(1)(b)]

10~~7~~. Visual Inspections of the secondary seal shall be performed at least once in every six month period and results of all such tests shall be made available to District, State, and Federal personnel upon request.
[District Rule 463(C)(1)(b)]

11~~8~~. All gauge hatches, roof supports, manholes, automatic bleeder vents, rim vents and gauge wells shall be equipped with vapor-tight seals or breather vents set at no less than 10% of the maximum allowable working pressure of the roof.
[District Rule 463]

12~~9~~. All openings in the tank roof shall be equipped with a projection, which extends below the liquid surface.
[District Rule 463]

13~~0~~. Roof drains shall be equipped with slotted membrane fabric cover, or equivalent, which covers at least 90% of the drain area.
[District Rule 463]

14~~1~~. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. The aggregated total amount of petroleum products transferred from the supplying pipelines and tanker trucks into all storage tanks combined, by product type and CAS, in gallons;
b. Average volume of petroleum products stored onsite;
c. Storage and transfer temperatures of petroleum products, in degrees Fahrenheit;
d. Monthly summary of incoming and outgoing petroleum product throughput, in gallons;
e. Running consecutive twelve (12) month summary of incoming and outgoing petroleum product throughput, in gallons;
f. Records of all primary and secondary seal inspections;
g. Records of all maintenance or repairs to the tank and to the primary and secondary seals, including the dates and times any temporary vapor control equipment was employed, such as mobile degassing equipment;
h. Records of all tank emptyings and refillings; and
i. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 463]

Conditions Applicable to Fixed Roof Storage Tank T000726:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. The maximum True Vapor Pressure (TVP) of organic liquids stored in this tank shall not exceed 11.0 psia (75.9 kPa) under storage conditions.
[40 CFR 60.112b, District Rule 463(C)(1)(c) and 463(C)(2)~~District Rule 463(C)(1)(a)(viii)~~]

3. This storage tank must be vented to the fully functional and properly operating air pollution control equipment operating under valid District Permit C000106.
[District Rules 1303 and 1320]

4. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. The aggregated total amount of petroleum products transferred from the supplying pipelines and tanker trucks into all storage tanks combined, by product type and CAS, in gallons;
b. Average volume of petroleum products stored onsite;
c. Storage and transfer temperatures of petroleum products, in degrees Fahrenheit;
d. Monthly summary of incoming and outgoing petroleum product throughput, in gallons;
e. Running consecutive twelve (12) month summary of incoming and outgoing petroleum product throughput, in gallons;
f. Records of all maintenance or repairs to the tank;
g. Records of all tank emptyings and refillings; and
h. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 463]

Conditions Applicable to Fixed Roof Storage Tank T000727:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.11085, District Rule 1302(C)(2)(a)]

2. The maximum True Vapor Pressure (TVP) of organic liquids stored in this tank shall not exceed 4.0 psia (27.6 kPa) under storage conditions.
[40 CFR 60.112b]

3. This storage tank must be vented to the fully functional and properly operating air pollution control equipment operating under valid District Permit C000106.
[District Rules 1303 and 1320]

~~4~~3. This storage tank's conservation-type vent must be fully functional and properly operating whenever organic liquids are being stored.
[District Rules 1303 and 1320]

54. The owner/operator shall maintain an operations log for each day's operations (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. The aggregated total amount of petroleum products transferred from the supplying pipelines and tanker trucks into all storage tanks combined, by product type and CAS, in gallons;
b. Average volume of petroleum products stored onsite;
c. Storage and transfer temperatures of petroleum products, in degrees Fahrenheit;
d. Monthly summary of incoming and outgoing petroleum product throughput, in gallons;
e. Running consecutive twelve (12) month summary of incoming and outgoing petroleum product throughput, in gallons;
f. Records of all maintenance or repairs to the tank;
g. Records of all tank emptyings and refillings; and
h. Records of the occurrence and duration of each malfunction of operation and what corrective actions were taken to minimize emissions.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 463]

E. PROCESS 5: BIODESEL/RENEWABLE DIESEL UNLOADING SYSTEMS

Conditions Applicable to the Biodiesel/Renewable Diesel Unloading Systems (B013876 & B013877):

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rules 204 and 1303]

2. The owner/operator must ensure that all of the components of the facility and this unloading system; including but not limited to: tanks, flanges, seals, pipes, pumps, valves, meters, connectors, etc.; are maintained as Vapor Tight and Liquid Tight and operated so as to prevent excess Organic Liquid drainage during transfer, storage and handling operations.
[District Rule 462(D)]

3. The emissions of this system were offset using Emission Reduction Credits; therefore, any change or modification to this system, including the throughput of product transferred (unloaded), or the products transferred (unloaded) must be made in consultation with the District prior to modification.
[District Rule 1302(C)(2)(a)]

4. This unloading system has an assumed control of efficiency of 95 percent based on the implementation of vapor balancing during the unloading process of product; and, installation of a submerged fill tube and dry-break/dry-disconnect couplers/cam-locks. As such, this system must be equipped with a submerged pipe fill tube to implement bottom fill unloading at all times. Additionally, this system must be equipped with dry-break/dry-disconnect couplers/cam-locks at all connections, including those connections on tanker trucks unloading product to/from the system. The owner/operator must ensure that vapor balancing is implemented during the unloading process of product at this facility. Vapor balancing is defined as returning/capturing the vapors displaced in the unloading system and tanker trucks as product is unloading.
[District Rules 1303(A) - BACT limiting]

5. The owner/operator must not allow unloading of product from this system, or other use or operation of any designated transporting vessel unless the vessel has a valid certification of vapor integrity as defined by the applicable Air Resources Board Certification and Test Procedures, pursuant to Health and Safety Code Section 41962(9) and the California Administrative Code Title 17, Section 94004. Vapor leaks from dome covers, pressure vacuum vents or other sources shall be determined in accordance with EPA Method 21.
[District Rule 462(3)]

6. This system may only transfer (unload) from tanker trucks. Additionally, this system may only transfer (unload) biodiesel (B100) and renewable diesel (R100) products. This system is exempt from District Rule 1102 pursuant to section (F)(1)(a), as this system exclusively handles liquids (product) with a VOC concentration of 10%.
[District Rule 1302(C)(2)(a)]

7. The combined total volume of product transferred (unloaded) from this system (Permit B013876 and the system described in District Permit B013877) must not exceed 120,000,000 gallons per any twelve-month period.
[District Rule 1303(B) - Offset limiting]

8. A non-resettable meter, either mechanical or digital, shall be installed to indicate hourly and daily unloading of product from this system, in gallons.
[District Rule 1303(B) - Compliance Demonstration]

9. The owner/operator shall maintain a throughput log for each day of operation (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
a. Product Name and CAS Number or SDS Identifier;
b. Amount transferred (unloaded), in gallons;
c. Monthly totals of each product transferred (unloaded);
d. Running 12 consecutive month totals of product transferred (unloaded); and,
e. Records of all repairs made, descriptions of leaks, and maintenance performed on this equipment per District Rule 462.
[District Rule 1303(B) - Compliance Demonstration]

F. PROCESS 6: LUBRICITY AND CONDUCTIVITY SKID AND INJECTION SYSTEM

Conditions Applicable to the Lubricity and Conductivity Skid and Injection System (B014070):

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [District Rules 204 and 1303]

2. The owner/operator must ensure that all of the components of the facility and this system; including but not limited to: tanks, flanges, seals, pipes, pumps, valves, meters, connectors, etc.; are maintained as Vapor Tight and Liquid Tight and operated so as to prevent excess Organic Liquid drainage during transfer, storage and handling operations.
   [District Rule 462(D)]

3. The lubricity/conductivity product used in this system must met the following properties:
   a. Have a maximum vapor pressure of less than 0.2 psia
   [District Rule 1303(B) - Offset limiting; District Rule 1102 - Maintain exemption].

4. The emissions of this system were offset using Emission Reduction Credits; therefore, any change or modification to this system, including the capacity of the product tote, or the lubricity/conductivity product outside the parameters listed in condition 3, must be made in consultation with the District prior to modification. This system is exempt from District Rule 463 pursuant to section (A)(2)(b), as this system current capacity is less than 19,815 gallons.
   [District Rule 1302(C)(2)(a)]

5. The total volume of product transferred (injected) from this system must not exceed 9,125 gallons per any twelve-month period.
   [District Rule 1303(B) - Offset limiting]

6. A non-resettable meter, either mechanical or digital, shall be installed to indicate hourly and daily transfer of product from this system, in gallons.
   [District Rule 1303(B) - Compliance Demonstration]

7. The owner/operator shall maintain a throughput log for each day of operation (from midnight to midnight) which shall include, as a minimum, the following information. This log shall be kept current and on-site (or at a central location) for a minimum of five (5) years, and shall be provided to District, State and Federal personnel upon request:
   a. Product Name and CAS Number or SDS Identifier;
   b. Amount transferred (injected), in gallons;
   c. Monthly totals of each product transferred (injected);

d. Running 12 consecutive month totals of product transferred (injected); and,
e. Records of all repairs made, descriptions of leaks, and maintenance performed on this equipment per District Rule 462.
[District Rule 1303(B) - Compliance Demonstration]

PART IV
STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[District Rule 1203(D)(1)(f)(i)]
[40 CFR 70.6(a)(5)]

2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[District Rule 1203(D)(1)(f)(ii)]
[40 CFR 70.6(a)(6)(i)]

3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[District Rule 1203(D)(1)(f)(iii)]
[40 CFR 70.6(a)(6)(ii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[District Rule 1203(D)(1)(f)(iv)]
[40 CFR 70.6(a)(6)(iii)]

5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay any condition contained in this Federal Operating Permit.
[District Rule 1203(D)(1)(f)(v)]
[40 CFR 70.6(a)(6)(iii)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[District Rule 1203(D)(1)(f)(vi)]
[40 CFR 70.6(a)(6)(iv)]

7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[District Rule 1203(D)(1)(f)(vii)]
[40 CFR 70.6(a)(6)(v)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies

of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[District Rule 1203(D)(1)(f)(viii)]
[40 CFR 70.6(a)(6)(v)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]

10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in District Rules 301 and 312.
[District Rule 1203(D)(1)(f)(ix)]
[40 CFR 70.6(a)(7)]

11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[District Rule 1203(D)(1)(f)(x)]
[40 CFR 70.6(a)(8)]

12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that "only" Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[District Rule 1203(G)(1)]
[40 CFR 70.6(f)(1)(i)]

13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[District Rule 1203(G)(3)(a)]
[40 CFR 70.6(f)(3)(i)]

14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations which occurred prior to the issuance of this Federal Operating Permit.
[District Rule 1203(G)(3)(b)]
[40 CFR 70.6(f)(3)(ii)]

15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[District Rule 1203(G)(3)(c)]
[40 CFR 70.6(f)(3)(iii)]

16. The Permit Shield set forth in Part VI, as discussed in condition 12 of Part IV, shall not

be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to Health and Safety Code Sections 42303 or 42705, or 42 U.S.C. §7414 or any other applicable provision of the State or Federal law.
[District Rule 1203(G)(3)(d)]
[40 CFR 70.6(f)(3)(iv)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[District Rule 1203(G)(3)(e)]
[40 CFR 70.4(b)(12)(ii)(B)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.
[District Rule 1203(G)(3)(f)]
[40 CFR 70.4(b)(14)(iii)]

19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[District Rule 1203 (G)(3)(g)]
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi)]

20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]

21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]

22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

PART V
OPERATIONAL FLEXIBILITY

A. OFF PERMIT CHANGES:

1. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
   (a) Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of District Rule 219; and
      (i) The proposed change is not:
         a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See District Rule 1203(E)(1)(c)(i)d.]*
         b. A modification under Title I of the Federal Clean Air Act; or
         c. A modification subject to Regulation XIII; and *[See District Rule 1203(E)(1)(c)(i) d.]*
         d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See District Rule 1203(E)(1)(c)(i)c.]*
         e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See District Rule 1203(E)(1)(c)(i)e.]*

2. Procedure for "Off Permit" Changes
   (a) If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:
      (i) Permittee shall apply for an Authority To Construct permit pursuant to the provisions of District Regulation II. *[See District Rule 1203(E)(1)(c)(i)b.]*
      (ii) In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
         a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and *[See District Rule 1203(E)(1)(c)(i)b.]*
         b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See District Rule 1203(E)(1)(c)(i)b.]*
         c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See District Rule 1203(E)(1)(c)(i)c.]*
      (iii) Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See District Rule 1203(E)(1)(c)(i)a.]*
   (b) Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the

notice and application to USEPA whichever occurs later. *[See District Rule 1203(E)(1)(c)(i)a. and g.]*

(c) Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)f.]*

(d) Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See District Rule 1203(E)(1)(c)(i)f.]*

3. Other Requirements:

(a) The provisions of District Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.

(b) The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]* [District Rule 1203(E)(1)(c)

PART VI
PERMIT SHIELD

Non-Applicable Requirements for Calnev Pipe Line, LLC - Barstow Terminal:

Citation	Description	Explanation of Why Requirement is Not Applicable or How Requirement is Modified
40 CFR 63 Subpart R	National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)	Facility is exempt from this regulation as it is not a major source for HAPs: See 40 CFR 63.420(a)(2). Furthermore, the facility has an E_T of less than one (1) as calculated in accordance with 40 CFR 63.420(a)(1). Instead, the facility is subject to 40 CFR 63 Subpart BBBBBB.

PART VII
Compliance Assurance Monitoring (CAM) Plan

The following sections as they relate to the CAM plan were submitted by the applicant simultaneously with their Title V renewal application. The plan was reviewed and deemed acceptable by the MDAQMD and included in this permit as federally enforceable permit conditions:

A. GENERAL

This Compliance Assurance Monitoring (CAM) Plan was developed in accordance with 40 CFR Section 64.3 "Monitoring design criteria". Within these regulations, requirements for selecting monitoring parameters and establishing operating ranges are outlined. The plan was developed to include specified methods to determine compliance with an emission limitation on a continuous basis, consistent with the averaging period established for the emission unit in the operating permit. The plan addresses the operation of the thermal oxidizer controlling volatile organic compound (VOC) emissions from the loading racks at the Calnev Pipe Line, LLC Barstow Terminal.
The basis for selecting monitoring parameters and establishing operating ranges to ensure continued compliance are discussed in the sections below. Equipment description, performance indicators, operating ranges, and justification for each indicator are described.

B. BACKGROUND

CALNEV's operations include loading tanker trucks with gasoline, denatured ethanol, diesel, jet, biodiesel, renewable diesel, biofuel and transmix from storage tanks through one of two tanker loading systems. A total of twelve loading arms located within two loading systems (see MDAQMD permit nos. B000105 and B000728) are employed in the transfer of fuel and the vapor collection system transports VOC-laden vapors through a saturator-condensate tank, followed by a vapor holding tank. When the holding tank reaches the volumetric set point, vapors are vented to a thermal oxidizer.

The system is also permitted for direct venting from the loading systems to the thermal oxidizer when the vapor tank is out of service.

Emissions Unit	
Description:	Nine-station multi petroleum product loading system (MDAQMD permit no. B000105); Three-station multi petroleum product loading system (MDAQMD permit no. B000728)
Identification:	North and South Loading Racks
Control Device:	Gasoline Vapor Control System (MDAQMD permit no. C000106)
Facility:	CALNEV Pipe Line, LLC – Barstow Terminal

34277 Daggett-Yermo Road
Barstow, CA 92327

Applicable Regulation, Emission Limit and Monitoring Requirements

Regulated Pollutant (PSEU):	VOC
Emission Limits:	95% Destruction Efficiency 0.08 lb VOC/1,000 gallons transferred
Regulatory Authority:	District Rules 462 and 1303
Monitoring Requirements in Permit:	Continuous monitoring of stack temperature with minimum temperature setpoint for automatic alarm/shutdown

Control Technology
Thermal Oxidizer – Hirt Model LHF 8000X

C. MONITORING APPROACH

The key elements of the monitoring approach, including the indicators to be monitored, indicator ranges, and performance criteria are presented in Table VII-1.

Table VII-1: Monitoring Approach

General Criteria	Indicator #1	Indicator #2	Indicator #3
Parameter	Exhaust Stack Temperature (~ 3 ft above chamber)	Work Practice – Inspection and Maintenance	Work Practice– Inspection and Maintenance
Measurement Approach	Monitored continuously with a thermocouple.	Periodic inspection and maintenance of the burner.	Periodic inspection and maintenance of the vapor compressor.
Indicator Range	At or above 1000° F	An excursion is defined as failure to perform annual inspection and/or manufacturer's recommended maintenance frequency.	An excursion is defined as failure to perform annual inspection and/or manufacturer's recommended maintenance frequency.
Performance Criteria			
Data Representativeness	The thermocouple is located on the stack. The minimum tolerance of the thermocouple is approximately +/- 0.75% (≈10 °F). The temperature is monitored via a Programmable Logic Computer (PLC). The minimum set point is 1000° F. Above this temperature, 95% destruction efficiency is achievable.	Not Applicable	Not Applicable.
Verification of Operational Status	Not Applicable.	Not Applicable.	Not Applicable.
QA/QC Practices and Criteria	The thermocouple is factory calibrated. The thermal oxidizer maintenance schedule does not include any requirements for thermocouple calibration.	Not Applicable.	Not Applicable.

Monitoring Frequency	Measured once every 15 minutes.	At least an annual inspection of the burner and periodic maintenance at a frequency in accordance with any applicable manufacturer's suggested schedule.	At least an annual inspection of the compressor and periodic maintenance at a frequency in accordance with any applicable manufacturer's suggested schedule.
Data Collection Procedure	Recorded once every 15 minutes.	Record results of maintenance procedures and annual inspection to be maintained for a 5 year period.	Record results of maintenance procedures and annual inspection to be maintained for a 5 year period.
Averaging Period	No average is taken.	Not Applicable.	Not Applicable.

D. RATIONALE FOR SELECTION OF PERFORMANCE INDICATORS

The thermal oxidizer exhaust stack temperature was selected as the performance indicator because it is indicative of complete combustion occurring within the unit and thus, thermal destruction of VOCs within the chamber. If temperature decreases significantly, complete combustion may not occur. Control/destruction efficiency achieved by a thermal oxidizer is a function of temperature. By maintaining the operating temperature at or above a minimum temperature, a certain level of control/destruction efficiency can reasonably be expected to be achieved.

The work practice is comprised of an annual inspection of the thermal oxidation unit and performance of periodic maintenance in accordance with the manufacturer's suggested maintenance practices. This inspection and maintenance includes tuning of the burner. The annual inspection and maintenance practice was selected because this allows for the verification of equipment integrity. Annual inspection of the vapor compressor was selected because a consistent vapor feed to the burners will result in stable operation and optimal burner efficiency. Furthermore, the tuning of the burner allows for proper burner operation and efficiency. Finally, this thermal oxidizer is required by permit condition to include a monitor to ensure that the pilot light is constantly lit.

E. RATIONALE FOR SELECTION OF INDICATOR RANGE

The selected indicator range for the thermal oxidizer is stack temperature greater than 1000 °F. Above this temperature, the thermal oxidizer will be achieving at least 95% destruction efficiency and can be reasonably assumed, based upon historical source test data, to be achieving the limit of 0.08 lb VOC/1,000 gallons transferred. An excursion is defined as a failure to terminate the combustion cycle once the initial temperature setpoint of 1000°F has been achieved, in the event of a subsequent temperature reading during the combustion process below 1000°F. When an excursion occurs, the monitoring system is required by permit condition to either alarm or automatically shut down, which will trigger the need for corrective action. Corrective action steps include immediate investigation, appropriate maintenance, replacing components, performing required reporting and recordkeeping actions, and returning the unit to normal operation as expeditiously as possible in accordance with good air pollution control practices for minimizing emissions.

The Programmable Logic Controller (PLC) for this thermal oxidizer employs temperature-controlled feedback that ensures the maintenance of the minimum temperature and is programmed to terminate a burn cycle in the event that either the initial combustion of vapors does not achieve a minimum of 1000°F or that the temperature falls below 1000°F after normal combustion conditions are achieved. The facility conducted historical source tests to verify that a minimum 95% VOC destruction efficiency was maintained at the 1000^{o} F thermal oxidizer operating temperature. The most recent source test was conducted on March 8, 2018 with a 99.8% hydrocarbon removal efficiency and an outlet mass emission rate of 0.04 lb VOC/1,000 gallons transferred.

PART VIII
CONVENTIONS, ABBREVIATIONS, DEFINITIONS, SIP TABLE, TANK APPLICABILITY TABLE

A. REFERENCING CONVENTIONS:

40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS)
40 CFR Part 60, Appendix F, Quality Assurance Procedures
40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40 CFR Part 61, Subpart M, National Emission Standards for Asbestos
40 CFR Part 63--National Emission Standards For Hazardous Air Pollutants For Affected Source Categories
40 CFR Part 72, Permits Regulation (Acid Rain Program)
40 CFR Part 73, Sulfur Dioxide Allowance System
40 CFR Part 75, Continuous Emission Monitoring
40 CFR Part 75, Subpart D, Missing Data Substitution Procedures
40 CFR Part 75, Appendix B, Quality Assurance and Quality Control Procedures
40 CFR Part 75, Appendix C, Missing Data Estimating Procedures
40 CFR Part 75, Appendix D, Optional SO_2 Emissions Data Protocol
40 CFR Part 75, Appendix F, Conversion Procedures
40 CFR Part 75, Appendix G, Determination of CO_2 Emissions

B. OTHER CONVENTIONS:

1. Unless otherwise noted, a "day" shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. ABBREVIATIONS:

acfm	actual cubic feet per minute (also ACFM)
APCO	Air Pollution Control Officer
ARB	(California) Air Resources Board
BACT	Best Available Control Technology
bhp	brake horsepower (also BHP)
Btu	British thermal units
CARB	California Air Resources Board
CARB CP	California Air Resources Board Certification Procedure

CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	carbon monoxide
CO_2	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
g/bhp-hr	grams per brake horsepower - hour
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horsepower
H&SC	California Health and Safety Code
kPa	kilo Pascals (measure of pressure)
lb	pounds
lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
LEL	Lower Explosive Limit (also lel)
MACT	Maximum Achievable Control Technology
MD	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
mm Hg	millimeters of Mercury (measure of pressure)
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NESHAP	National Emission Standards for Hazardous Air Pollutants
NH_3	ammonia
NMOC	non-methane organic compounds
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide
NSPS	New Source Performance Standards
O_2	oxygen
pH	potential of Hydrogen (acidity measure of solution)
PM_{10}	particulate matter less than 10 microns aerodynamic diameter
$PM_{2.5}$	particulate matter less than 2.5 microns aerodynamic diameter
ppmv	parts per million by volume
ppmw	parts per million by weight
psia	pounds per square inch absolute pressure
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP or rvp	Reid Vapor Pressure
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour

SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO_x	oxides of sulfur
SO_2	sulfur dioxide
tpy	tons per year
TVP or tvp	true vapor pressure
UEL	Upper Explosive Limit (also uel)
^{o}	Degree(s)

D. MDAQMD Rule SIP History:

Disclaimer:
This table is designed to provide information on rules contained in the Applicable State Implementation Plan (SIP) for various areas within the Mojave Desert AQMD. There may be other rules or items not included herein which may be considered by USEPA to be part of the MDAQMD SIP. Facilities are encouraged to do independent research to verify any questionable information. Reliance on this document will not be a defense in any enforcement action by the MDAQMD or any other agency.

Notation Regarding Use of this Table:
This table is organized in numerical order by Rule number. Adopting Agency is indicated as the original agency which adopted and/or submitted the rule. (Current Version) is the date of there version contained in the MDAQMD rule book contained in (parenthesis). Effective Area indicates whither the SIP rule is effective within San Bernardino County only (SBC), Riverside County (RC), or both (MD). Citations attempt to provide citations for all final actions taken by USEPA for a particular rule. Underlined text indicates currently unverified information. The abbreviations listed below are utilized throughout.

Rule Adopting Agencies:
MD = Mojave Desert AQMD
Old SB = San Bernardino County APCD before 1975
RC = Riverside County ACPD
SC = South Coast ACPD
SO = Southern California APCD

Current Rule Information:
MD#, Date = Rule # in the MD Rule Book as adopted/amended on date indicated
Rescinded & replaced = No current rule in MD Rule Book. Rule replaced by indicated action on indicated date.
Via Res. 94-03 = Current version in the MD Rule Book is applicable to the Blythe/Palo Verde Valley area of Riverside County via annexation of that area effective 07/01/1994.
Effective Area:
MD = SIP Rule effective within entire jurisdiction of MDAQMD.
MDAP = SIP Rule Effective within Mojave Desert PM10 Planning Area within the MDAQMD.
RC = SIP Rule effective within Blythe/Palo Verde Valley Region of Riverside County.

SBC = SIP Rule effective within the San Bernardino County Portion of the MDAQMD.
SVPA = SIP Rule effective within the Searles Valley PM10 Planning Area.

SIP Fix Type
1 = SIP Pending per Region IX, USEPA Database
2 = Title V Program Elements
3 = Prohibitory Rules needing SIP update to match rulebook rule.
4 = Prohibitory Rules needing partial SIP update to match rulebook rule.
5 = Old Superceded rules; Inappropriate SIP Rules
6 = Research required on rule status
7 = Current rulebook rule is in SIP

Version In SIP:
Bef = Before (Assumes that the last amendment before the date listed is the version submitted by CARB.
AFT = After
G-73 = Rule book adopted by CARB Ex. Order G-73
SIP Sub = Submitted as a SIP revision but no action yet
Pr Del = Proposed for deletion from SIP by USEPA
Current = Rule book version as of last adoption/amendment date is in the SIP

USEPA Actions:
Add = USEPA added additional provisions to this item.
PD = USEPA partially disapproved this item
App = USEPA Approved.
PW = USEPA partially withdrew the approval of the item
CA = USEPA Conditionally Approved.
R = USEPA retained this item due to another Disapproval.
D = USEPA Disapproved.
SCApp = Approval only applicable to SCAQMD
DD = USEPA allowed deletion without replacement.
SCLa/Ld = Limited Approval/Disapproval only applicable to SCAQMD
Del = USEPA allowed deletion without replacement.
SCNPRM = Notice of proposed rule making only applicable to SCAQMD
IA = Interim Approval
U = Unknown action, presumed approved.
LA/LD = USEPA approved with a Limited Approval/Disapproval of the item.
Wit = USEPA withdrew approval of item
ND = Notice of Deficiency, USEPA indicated that the item was deficient in whole or in part.
NPRM = Notice of Proposed Rule Making

District Rule Citations

For the most recent Rule SIP History, including approval, pending approval, etc, see:

https://www.mdaqmd.ca.gov/home/showpublisheddocument?id=7143

Rules in the SIP for the MDAQMD

Agency	Rule #	Rule Title	Area	Rule Book Version	SIP Version	CFR	FR Date	FR Cite
Old SB	5 (a)	Public Availability of Emissions Data	SBC	None	Bef 02/73	40 CFR 52.220(c)(21)(xv)(A)	6/14/1978	43 FR 25684
RC	51	Nuisance	RC	MD 402, 07/25/1977 via Res. 94-03	Bef 02/72	40 CFR 52.220(c)(?)	5/31/1977	
RC	52	Particulate Matter - Concentration	RC	MD 405, 07/25/1977 via Res. 94-03	Bef 06/72	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	52A	Particulate Matter - Concentration	SBC			40 CFR 52.220.(c)(1-2)	9/22/1972	34 FR 19812
Old SB	53A	Specific Air Contaminants	SBC			40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
RC	53	Specific Air Contaminants	RC			40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
Old SB	53.2	Sulfur Recovery Units	SBC			40 CFR 52.220.(c)(1-2)	9/22/1972	34 FR 19812
Old SB	53.3	Sulfuric Acid Units	SBC			40 CFR 52.220.(c)(1-2)	9/22/1972	34 FR 19812

RC	54	Solid Particulate Matter, Weight	RC	MD 405, 07/25/1977 via Res. 94-03	Bef 06/72	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 4011
Old SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknown	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	56	Scavenger Plants	RC	None	G-73	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
RC	58	Disposal of Solid and Liquid Wastes	RC	MD 473, 7/25/77 via Reso 04-03	Bef 06/72	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	58 A	Disposal of Solid and Liquid Wastes	SBC	MD 473, 07/25/77	Bef 02/72	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	62.1	Sulfur Content of Natural Gas	SBC	None but See MD 431	Bef 02/72	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	67	Fuel Burning Equipment	N/A	None but See MD 474 and 476	Bef 02/72	40 CFR 52.280(b)(1)(ii)(C)	6/9/1982	47 FR 25013
RC	67	Fuel Burning Equipment	RC	None but See MD 474 and 476	Bef 11/79	40 CFR 52.280(c)(1)(i)	5/18/1981	46 FR 27116

Old SB	69	Vacuum Producing Devices or Systems	SBC	Fed Neg Dec. 12/21/1994	Bef 02/72	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR3886
Old SB	70	Asphalt Air Blowing	SBC	Fed Neg Dec. 10/26/1994	Bef 02/72	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
RC	72	Fuel Burning Equipment	RC	MD 474, 01/22/1996 ; MD 475 03/16/1981 ; and MD 476 01/22/1996 via Res. 94-03	Bef 11/79	40 CFR 52.280(c)(1)(i)	5/18/1981	46 FR 27116
RC	73	Lead Content and Volatility of Gasoline	RC	None	G-73	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 4001
RC	74	Vacuum Producing Devices or Systems	RC	Fed Neg Dec12/21/1994	Bef 06/72	40 CFR 52.269(b)(3)(ii)(A)		
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	FR Text	6/9/1982	47 FR 25013
SB	101	Title	SBC	7/1/1993	12/19/1998	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	55 FR 49281

MD	102	Definition of Terms	MD			40 CFR 52.220(c)(520)(i)(A)(1)	7/2/2019	84 FR 31682
MD	102	Definition of Terms	MD	9/28/2020	(SIP Sub)			
MD	103	Definition of District Boundaries	MD	6/28/1995	Current	40 CFR 52.220(c)(224)(i)(C)(2)	6/3/1999	64 FR 29790
SB	103	Definition of Terms (Unknown rule - no record except in FR reference)	SBC	None	Bef 11/77	40 CFR 52.236(e)(3)(i)	1/16/1981	46 FR 3883
SC	104	Reporting of Source Data Analysis	RC			FR Text	6/9/1982	47 FR 25013
SB	104	Reporting of Source Data Analysis	SB	12/19/1988	Current	40 CFR 52.220(c)(179)(i)(B)(i)		
SC	106	Increments of Progress	RC			FR Text	6/9/1982	47 FR 25013
SB	106	Increments of Progress	SB	12/19/1988	Current	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
MD	107	Certification and Emissions Statements	MD	9/14/1992	Current	40 CFR 52.220(c)(190)(i)(F)(1)	5/26/2004	69 FR 29880
SC	107	Determination of Volatile Organic Compounds in Coating Material	RC		Bef 3/1/82	40 CFR 52.220(c)(121)(c)(v)(B)	10/11/1983	48 FR 46046
SC	108	Alternate Emission Control Plans	RC	None	4/6/1990	40 CFR 52.220(c)(182)(i)(A)(3)	8/30/1993	58 FR 45445

SC	109	Record keeping for Volatile Organic Compound Emissions				40 CFR 52.220(c)(182)(i)(A)(2)	8/30/1993	58 FR 45444
SB	201	Permit to Construct	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	201	Permit to Construct	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	202	Temporary Permit to Operate	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	202	Temporary Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	203	Permit to Operate	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	203	Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	204	Permit Conditions	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	204	Permit Conditions	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	205	Cancellation of Application	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237

SC	205	Cancellation of Application	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	206	Posting of Permit To Operate	MD	2/22/2021	Current		6/30/2023	88 FR 42258
SB	207	Altering or Falsifying of Permit	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	207	Altering or Falsifying of Permit	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	208	Permit for Open Burning	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	208	Permit for Open Burning	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	209	Transfer and Voiding of Permit	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	209	Transfer and Voiding of Permit	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	212	Standards for Approving Permits	RC	7/25/1977 via Res. 94-03	5/1/1987	40 CFR 52.220(c)(173)(i)(A)(1)	2/3/1989	54 FR 5448

SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SB	217	Provision for Sampling and Testing Facilities	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	217	Provision for Sampling and Testing Facilities	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
SO	218	Stack Monitoring	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	218	Stack Monitoring	RC	7/25/1977 via Res. 94-03	Bef 10/81	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD	1/25/2021	Current		6/30/2023	88 FR 42258
SC	220	Exemption, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	8/7/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
SC	221	Plans	RC	None	1/4/1985	40 CFR 52.220(c)(165)(i)(B)(1)	4/17/1987	52 FR 12522
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	2/21/1994	40 CFR 52.220(c)(216)(i)(A)(2)	2/5/1996	61 FR 4217
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	(SIP Sub)			
MD	222	Limitation on Potential to Emit	MD	2/28/2011	7/31/1995	40 CFR 52.220(c)(225)(i)(H)(1)	8/31/2004	69 FR 53005

SC	301.2	Fee Schedules	RC	None	6/3/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
MD	315	Federal Clean Air Act Section 185 Penalty	MD	2/23/2023	(SIP Sub)			
MD	315.1	Federal Clean Air Act Section 185 Penalty (1997 Standard)	MD	3/28/2022	(SIP Sub)			
MD	315.2	Federal Clean Air Act Section 185 Penalty (2008 Standard)	MD	3/28/2022	(SIP Sub)			
SC	401	Visible Emissions	RC		3/2/1984	40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	(SIP Sub)		7/20/2023	88 FR 46723
MD	401	Visible Emissions	MD	10/23/2023	(SIP Sub)			
MD	402	Nuisance	MD	7/25/1977	Not SIP			
SB	403	Fugitive Dust	SBC		G-73	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	403	Fugitive Dust	RC			FR Text	6/9/1982	47 FR 25013
MD	403	Fugitive Dust	MD	9/28/2020				
MD	403.1	Respirable Particulate Matter in SVPA	MD		11/25/1996	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750

SB	404	Particulate Matter, Concentration	SB	7/25/1977	7/25/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 52482
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
MD	404	Particulate Matter - Concentration	MD	2/28/2022	(SIP Sub)			
SB	405	Solid Particulate Matter, Weight	SB	7/25/1997	7/25/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 59489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res. 94-03	5/7/1976	FR Text	6/9/1982	47 FR 25013
MD	405	Solid Particulate Matter, Weight	MD	2/28/2022	(SIP Sub)			
MD	406	Specific Contaminants	RC	2/20/1979 via Res. 94-03	RC Rule 53			
SB	406	Specific Contaminants	SBC	2/20/1979	7/25/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 59489
MD	406	Specific Contaminants	MD	3/28/2022	(SIP Sub)			
SB	407	Liquid and Gaseous Air Contaminants	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011

SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res. 94-03	4/2/1982	40 CFR 52.220(c)(124)(iv)(A)	11/10/1982	47 FR 50864
MD	407	Liquid and Gaseous Air Contaminants	MD	3/28/2022	(SIP Sub)			
SB	408	Circumvention	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	408	Circumvention	MD	4/25/2022	(SIP Sub)			
SB	409	Combustion Contaminants	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res. 94-03	8/7/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
MD	409	Combustion Contaminants	MD	4/25/2022	(SIP Sub)			
SB	431	Sulfur Content of Fuels	SB	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	431	Sulfur Content of Fuels	MD	9/28/2020	(SIP Sub)			
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431	5/6/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028

SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Bef 8/80	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of fossil Fuels	RC	See MD 431	Bef 8/80	FR Text	6/9/1982	47 FR 25013
SB	432	Gasoline Specifications	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	432	Gasoline Specifications	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	432	Gasoline Specifications	MD	4/25/2022	(SIP Sub)			
MD	442	Usage of Solvents	MD	2/27/2006	Current	40 CFR 52.220(c)(347)(i)(C)(1)	9/17/2007	72 FR 52791
SB	443	Labeling of Solvents	SB			40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	443	Labeling of Solvents	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	444	Open Fires	MD	9/25/2006	Current	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
MD	461	Gasoline Transfer and Dispensing	MD			40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	Current	40 CFR 52.220(c)(518)(i)(A)(3)	5/1/2020	85 FR 25293

MD	462	Organic Liquid Loading	MD	1/22/2018	Current	40 CFR 52.220(c)(518)(i)(A)(4)	5/1/2020	85 FR 25293
MD	463	Storage of Organic Liquids	MD	1/22/2018	Current	40 CFR 52.220(c)(518)(i)(A)(5)	5/1/2020	85 FR 25293
MD	464	Oil Water Separators	MD	6/12/2014	Current	40 CFR 52.220(c)(457)(i)(B)(1)	6/5/2015	80 FR 32026
SC	465	Vacuum Producing Devices or Systems	RC	Rescinded & Fed. Neg. Dec 12/21/1994	Bef 5/91	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35759
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed. Neg. Dec 12/21/1994	Not SIP	40 CFR 52.222(a)(1)(iii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Bef 12/83	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	40 CFR 52.220(c)(39)(ii)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None	5/2/1980	FR Text	6/9/1982	47 FR 25013
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011

SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	468	Sulfur Recovery Units	MD	8/22/2022	(SIP Sub)			
SB	469	Sulfuric Acid Units	SB	7/25/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	469	Sulfuric Acid Units	MD	8/22/2022	(SIP Sub)			
SC	470	Asphalt Air Blowing	RC	N/A	G-73	FR Text	6/9/1982	47 FR 25013
MD	471	Asphalt Roofing Operations		12/21/1994	Current	40 CFR 52.220(c)(210)(i)(C)(2)	2/29/1996	61 FR 7706
SB	472	Reduction of Animal Matter	SBC	7/21/1977	G-73	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res. 94-03	G-73	FR Text	6/9/1982	47 FR 25013
MD	472	Reduction of Animal Matter	MD	7/21/2022	(SIP Sub)			
SB	473	Disposal of Liquid and Solid Wastes	SB	7/25/1977	G-73	40 CFR 52.220(c)(39(ii)(C)	9/8/1978	43 FR 40011

MD	473	Disposal of Liquid and Solid Wastes	MD	TBD	(SIP Sub)			
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25 1997	Current	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	475	Electric Power Generating Equipment	MD	8/25/1997	Current	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	476	Steam Generating Equipment	MD	8/25/1997	Current	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
SB	480	Natural Gas Fired Control Devices	SBC	2/20/1979	Current	40 CFR 52.220(c)(51)(xii)(A)	1/27/1981	46 FR 8471
MD	480	Natural Gas Fired Control Devices (Rescinded)	MD	9/26/2022	(SIP Sub)			
SC	481	Spray Coating Operations	RC	1113, 1114, 1115 & 1116	5/5/1978	FR Text	6/9/1982	47 FR 25013
SC	501	General	RC	6/10/2019	Bef 8/80	FR Text	6/9/1982	47 FR 25013
MD	701	Emergencies (Consolidation of Reg VII)	MD	9/26/2022	(SIP Sub)			
MD	900	Standards of Performance for New Stationary Sources	MD	1/24/2022	Delegated			

MD	1000	National emissions Standards for Hazardous Air Pollutants	MD	1/24/2022	Delegated			
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None	4/4/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
MD	1102	Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations	MD	10/26/1994	Current	40 CFR 52.220(c)(207)(i)(D)	9/27/1995	60 FR 49772
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None	12/7/1990	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None	4/6/1980	40 CFR 52.220(c)(69)(iii)	7/8/1982	47 FR 29668
MD	1103	Cutback and Emulsified Asphalt	MD	12/21/1994	Current	40 CFR 52.220(c)(207)(i)(C)(1)	2/5/1996	61 FR 4215
SC	1104	"Wood Flat Stock Coating Operations				40 CFR 52.220(c)(186)(i)(C)(1)	6/23/1994	59 FR 32354
(SC Amended 8/2/91)"	RC	None	3/1/1991			40 CFR 52.220(c)(519)(i)(A)(1)	7/2/2019	84 FR 31682

MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current	40 CFR 52.220(c)(159)(v)(C)	7/12/1990	55 FR 28625
SC	1105	Fluid Catalytic Cracking Units Oxides of Sulfur (SC Adopted 9/8/84)	RC	None	9/8/1984	40 CFR 52.220(c)(498)(i)(B)(1)	2/12/2018	83 FR 5940
MD	1106	Marine & Pleasure Craft Coating Operations	MD	10/24/2016	Current	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66285
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations.	RC	None	9/6/1991	40 CFR 52.220(c)(160)(i)(E)(1)	7/12/1990	55 FR 28624
SC	1108	Cutback Asphalt	RC	None	2/1/1985	40 CFR 52.220(c)(153)(vii)(A)	1/24/1985	50 FR 3339
SC	1108.1	Emulsified Asphalt	RC	None	Bef 3/84	40 CFR 52.220(c)(121)(i)(C)	5/3/1984	49 FR 18822
SC	1110	Emissions from Stationary Internal Combustion Engines.	RC	None	Bef 3/82	40 CFR 52.220(c)(148)(vi)(A)	5/3/1984	49 FR 18830
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None	Bef 10/83	40 CFR 52.220(c)(154)(vii)(B)	1/7/1986	51 FR 600
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None	1/6/1984	40 CFR 52.220(c)(155)(iv)(A)	1/24/1985	50 FR 3339
SC	1113	Architectural Coatings	RC		Bef 7/84	40 CFR 52.220(c)(428)(i)(C)(1)	1/3/2014	79 FR 365

MD	1113	Architectural Coatings	MD	4/23/2012	4/23/2012			
MD	1113	Architectural Coatings	MD	10/26/2020	(SIP Sub)	40 CFR 52.220(c)(558)(i)(a)(1)	7/28/2021	86 FR 40335
MD	1114	Wood Products Coating Operations	MD	8/24/2020	Current	40 CFR 52.220(c)(189)(i)(A)(1)	12/20/1993	58 FR 66282
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None	3/6/1992	40 CFR 52.220(c)(571)(i)(A)(1)	5/9/2022	87 FR 27526
MD	1115	Metal Parts & Products Coating Operations	MD	6/8/2020	Current	40 CFR 52.220(c)(388)(i)(F)(1)	8/9/2012	77 FR 47536
MD	1116	Automotive Refinishing Operations	MD	8/23/2010	Current	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None	SC 1/6/1984	40 CFR 52.220(c)(381)(i)(H)(1)	3/1/2012	77 FR 12495
MD	1117	Graphic Arts	MD					
MD	1117	Graphic Arts	MD	8/24/2020	(SIP Sub)	40 CFR 52.220(c)(485)(i)(B)(1)	6/21/2017	82 FR 28240
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD					
MD	1118	Aerospace Assembly, Rework and Component Manufacturing Operations	MD	6/8/2020	(SIP Sub)	40 CFR 52.220(c)(88)(iii)(A)	9/28/1981	46 FR 47451

SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None	3/2/1979	40 CFR 52.220(c)(65)(ii)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None	8/4/1978	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1121	Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters	RC	None	12/1/1978			
MD	1121	Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters	MD	10/23/2023	(SIP Sub)	40 CFR 52.220(c)(148)(vi)(B)	10/3/1984	49 FR 39057
SC	1122	Solvent Metal Cleaners (Degreasers)	RC	None	7/8/1983	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35758
SC	1123	Refinery Process Turnaround	RC	None	SC 12/7/1990	40 CFR 52.220(c)(154)(vii)(A)	1/24/1985	50 FR 3339
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None	1/6/1984	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17897
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None	SC 8/2/1991	40 CFR 52.220(c)(189)(i)(A)(2)	12/20/1993	58 FR 66286
SC	1126	Magnet Wire Coating Operations	RC	None	SC 3/6/1992	40 CFR 60.23		

MD	1126	Municipal Solid Waste Landfills	MD	8/28/2000	Not SIP	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66287
SC	1128	Paper, Fabric and Film Coating Operations	RC	None	SC 2/7/1992	40 CFR 52.220(c)(193)(i)(A)(2)	4/14/1994	59 FR 17698
SC	1130	Graphic Arts	RC	None	Bef 5/1993	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17698
SC	1136	Wood Furniture and Cabinet Coatings	RC	None	Bef 5/92	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1140	Abrasive Blasting	RC		2/1/1980	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66286
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None	SC 4/3/1992	40 CFR 52.220(c)(153)(vii)(B)	1/24/1985	50 FR 3339
SC	1141.1	Coatings and Ink Manufacturing	RC	None	11/4/1983	40 CFR 52.220(c)(156)(vii)(A)	1/15/1987	52 FR 1627
SC	1141.2	Surfactant Manufacturing	RC	None	SC 7/6/1984	40 CFR 52.220(c)(191)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1145	Plastic, Rubber and Glass Coatings	RC	None	SC 1/10/1992	40 CFR 52.220(c)(127)(vii)(c)	10/19/1984	40 FR 41028
SC	1148	Thermally Enhanced Oil Recovery Wells	RC		11/5/1982	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1151	Motor Vehicle and Mobile Equipment Non-	RC	None	Bef 5/13/1993	40 CFR 52.220(c)(184)(i)(B)(3)	9/29/1993	58 FR 50850

		Assembly Line Coating Operations						
SC	1153	Commercial Bakery Ovens	RC	None	SC 1/4/1991	40 CFR 52.220(c)(248)(i)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/22/2018	5/19/1997	40 CFR 52.220(c)((518)(i)(A)(10)	6/16/2023	88 FR 39366
MD	1157	Boilers and Process Heaters	MD	1/22/2018	(SIP Sub)	40 CFR 52.220(c)(153)(vii)(B)	1/15/1987	52 FR 1627
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None	12/2/1983	40 CFR 52.220(c)(254)(i)(H)(2)	7/20/1999	64 FR 38832
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	8/25/1997			
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	Withdrawn	40 CFR 52.220(c)(168)(I)(H)	7/12/1990	55 FR 28622
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None	SC 12/6/1985	40 CFR 52.220(c)(379)(i)(E)(1)	10/25/2012	77 FR 65133
MD	1159	Stationary Gas Turbines	MD	9/28/2009	Current	40 CFR 52.220(c)(518)(i)(A)(7)	9/10/2021	86 FR 50643
MD	1160	Internal Combustion Engines	MD		1/22/2018			
MD	1160	Internal Combustion Engines	MD	1/23/2023	(SIP Sub)	40 CFR 52.220(c)(518)(i)(A)(9)	6/2/2023	88 FR 36249

MD	1161	Portland Cement Kilns	MD	1/22/2018	Current	40 CFR 52.220(c)(354)(i)(B)(1)	11/24/2008	73 FR 70883
MD	1162	Polyester Resin Operations	MD	1/22/2018	8/27/2007	40 CFR 52.220(c)(519)(i)(A)(1)	2/27/2020	85 FR 11812
MD	1162	Polyester Resin Operations	MD	1/22/2018	Current	40 CFR 52.220(c)(184)(i)(B)(2)	9/29/1993	58 FR 50850
SC	1164	Semiconductor Manufacturing Operations		2/7/1990		40 CFR 52.220(c)(364)(i)(D)(1)	7/2/2012	77FR 39181
MD	1165	Glass Melting Furnaces	MD	8/12/2008	Current			
MD	1168	Adhesive & Sealant Applications	MD	4/27/2020	(SIP Sub)	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR66285
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	40 CFR 52.220(c)(182)(i)(A)(1)	10/26/1992	57 FR 48457
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC		1/5/1990	40 CFR 52.220(c)(182)(i)(A)(1)	10/26/1992	57 FR 48459
SC	1176	Sumps and Wastewater Separators	RC	1/5/1990	1/5/1990			
MD	1200	General (Federal Operating Permit)	MD	2/28/2011				
MD	1201	Definitions (Federal Operating Permit)	MD	9/26/2005				

MD	1202	Applications	MD	9/26/2005				
MD	1203	Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005				
MD	1205	Modifications of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005				
MD	1206	Reopening, Reissuance and Termination of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005				
MD	1207	Notice and Comment (Federal Operating Permit)	MD	9/26/2005				
MD	1208	Certification (Federal Operating Permit)	MD	9/26/2005				
MD	1209	Appeals (Federal Operating Permit)	MD	9/26/2005				
MD	1210	Acid Rain Provisions of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005				
MD	1211	Greenhouse Gas Provisions of Federal	MD	2/28/2011		40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133

		Operating Permits (Federal Operating Permit)						
MD	1300	General	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1300	General	MD	3/22/2021	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1301	Definitions	MD		(SIP Sub)			
MD	1301	Definitions	MD	3/25/2024	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1302	Procedure	MD		(SIP Sub)			
MD	1302	Procedure	MD	3/25/2024	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1303	Requirements	MD	3/22/2021	(SIP Sub)			
MD	1303	Requirements	MD	3/25/2024	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133

MD	1304	Emissions Calculations	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1304	Emissions Calculations	MD	3/22/2021	(SIP Sub)			
MD	1304	Emissions Calculations	MD	3/25/2024	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1305	Emissions Offsets	MD	3/22/2021	(SIP Sub)			
MD	1305	Emissions Offsets	MD	3/25/2024	(SIP Sub)	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities	MD		3/25/1996		11/25/2022	87 FR 72434
MD	1306	Electric Energy Generating Facilities	MD	3/22/2021	(SIP Sub)			
MD	1310	Federal Major Facilities and Federal Major Modifications	MD	Rescinded 3/22/21	(SIP Sub)	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1401	Definitions (Emissions Reduction Credits)	MD	6/28/1995	Current		6/30/2023	88 FR 42258
MD	1402	Emission Reduction Credits Registry	MD	5/19/1997	App	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215

MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current			
MD	1520	Control of Toxic Air Contaminants From Existing Sources	MD	3/25/2019	(SIP Sub)			
MD	1600	Prevention of Significant Deterioration	MD	3/22/2021	(SIP Sub)			
MD	2001	Transportation Conformity	MD	2/22/1995	??	40 CFR 52.220(c)(231)(i)(C)(1)	4/23/1999	64 FR 19916
MD	2002	General Federal Actions Conformity	MD	10/26/1994	Current	40 CFR 52.222(a)(1)(ii)	9/11/1995	60 FR 47074
MD	FND	Fed. Neg. Dec. - Asphalt Air Blowing	MD		Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Air Oxidation Process - SOCMI	MD	1/22/2007	Current			
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	RC	5/25/1994 via Res. 94-03	Unknown		1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Equipment Leaks from	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153

		Natural Gas/Gasoline Processing Plants						
MD	FND	Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment	MD	8/23/2010	Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Industrial Wastewater	MD		Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Large Petroleum Dry Cleaners	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins	MD	8/23/2010	Current			
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res. 94-03	Unknown	40 CFR 52.222(a)(1)(i)	1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	SBC	5/25/1994	Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474

MD	FND	Fed. Neg. Dec. - Offset Lithography	MD		Current			
MD	FND	Fed. Neg. Dec. - Orchard & Citrus Heaters	MD	6/24/1996	??	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Petroleum Refinery Equipment	MD	8/23/2010	Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (other)	MD		Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Pneumatic Rubber Tire Manufacturing	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec - Polymer Manufacturing SOCMI and Polymer manufacturing Equipment Leaks	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Process Unit Turnarounds	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153

MD	FND	Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOCMI	MD	1/22/2007	Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Ship Building	MD		Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Cans	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Coils	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Fabrics	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Large Appliances	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Magnet Wire	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg. Dec. - Surface Coating Operations at Automotive and Light Duty Truck Assembly Plants	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthesized Pharmaceutical Products	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(iv)	11/1/1996	61 FR 56474

MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Batch Processing	MD		Current	40 CFR 52.222(a)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry	MD		Current	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors	MD		Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing	MD	1/22/2007	Current	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Vacuum Producing Devices	MD	1/22/2007	Current	40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii)	2/27/2020	85 FR 11812
MD	FND	Fed Neg. Dec - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportatio	MD	4/23/2018	Current	40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix)	2/27/2020	85 FR 11812

		n and Business Machine Plastic Parts						
MD	FND	"Fed Neg Dec - 1 CTG for Miscellaneous Metal				40 CFR 70 Apx. A California (q)(2)	12/17/2001	66 FR 63503
and Plastic Parts Coatings (EPA–453/R–						40 CFR 70 Apx. A California (q)(3)	10/15/2002	67 FR 63551
08–003), Table 6— Motor Vehicle								

Materials."	MD	10/22/2018	Current					
MD	Title V	Program - Federal Operation Permits: Title V	MD				4/30/2013	78 FR 25185
MD	Title V	Program - Federal Operation Permits: Title V	MD		Unknown			
MD	MACT	MACT Delegation (Sections A, F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS,	MD	Rule 1000 1/24/2022	Current			

		TTTT,UUUU, VVVV, WWWW, XXXX, YYYY, ZZZZ,AAAAA, BBBBB, CCCCC, DDDDD, EEEEE, FFFFF, GGGGG,HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN,PPPPP,QQQQQ, RRRRR, SSSSS,TTTTT,WWWWW,YYYYY, ZZZZZ, BBBBBB, CCCCCC, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, JJJJJJ, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTT, VVVVVV, WWWWWW, XXXXXX, YYYYYY, ZZZZZZ, AAAAAAA, BBBBBBB, CCCCCCC, DDDDDDD, EEEEEEE.						

Storage Tank NSPS and NESHAP Applicability

Table 3: CALNEV Pipeline, LLC – Barstow Terminal – Storage Tank NSPS and NESHAP Applicability										
Permit no.	**Construction Year**	**Capacity (gallons)**	**Control Requirements**	**Primary Seal Type**	**Secondary Seal Type**	**Current Product Stored**	**Permitted Products**	**Subpart Kb Applicability**	**Subpart BBBBBB Applicability**	**Path to Subpart WW**
T000096	1961	259686	Domed Double Deck External Floating Roof	Mechanical Shoe	Compression Wiper	Ethanol	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000096 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000096 became subject to 40 CFR 60 Subpart Kb.										
T000097	1961	310884	Double Deck External Floating Roof	Mechanical Shoe	Compression Wiper	Biodiesel	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000097 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000097 became subject to 40 CFR 60 Subpart Kb. While tank stores products with vapor pressures less than 3.5 Kpa, tank is not subject to 40 CFR 60 Subpart Kb.										
T000098	1961	727230	Double Deck External Floating Roof	Mechanical Shoe	Compression Wiper	Diesel	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000098 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000098 became subject to 40 CFR 60 Subpart Kb. While tank stores products with vapor pressures less than 3.5 kPa, tank is not subject to 40 CFR 60 Subpart Kb.										
T000099	1961	726222	Double Deck	Mechanical Shoe	Wiper Tip	Gasoline	Multiple Product	Yes	Yes	Kb-->WW

			External Floating Roof							[40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000099 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000099 became subject to 40 CFR 60 Subpart Kb.										
T000100	1961	417858	Double Deck External Floating Roof	Mechanical Shoe	Compression Wiper	Gasoline	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000100 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000100 became subject to 40 CFR 60 Subpart Kb.										
T000101	1961	418278	Double Deck External Floating Roof	Mechanical Shoe	Rubber Wiper	Gasoline	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000101 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000101 became subject to 40 CFR 60 Subpart Kb.										
T000102	1970	489804	Internal Floating Roof	Mechanical Shoe	None	Renewable Diesel	Diesel/Low RVP Product	No	No	Not Requested
Not subject to Subpart BBBBBB due to products tank T000102 can store in accordance with PTE VOC and HAPs. Permitting would be needed to revise PTE for gasoline storage. Due to year of construction, tank T000102 is not subject to 40 CFR 60 Subparts K, Ka, or Kb.										
T000103	1961	157920	Internal Floating Roof	Mechanical Shoe	Compression Wiper	Transmix	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000103 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000103 became subject to 40 CFR 60 Subpart Kb.										

T000104	1961	126630	Fixed Roof	None	None	Diesel	Diesel/Low RVP Product	No	No	Not Requested
Not subject to Subpart BBBBBB due to products tank T000104 can store in accordance with PTE VOC and HAPs. Permitting would be needed to revise PTE for gasoline storage. Due to year of construction, tank T000104 is not subject to 40 CFR 60 Subparts K, Ka, or Kb.										
T000723	1961	531300	Double Deck External Floating Roof	Mechanical Shoe	Rubber Wiper	Diesel	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000723 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000723 became subject to 40 CFR 60 Subpart Kb. While tank stores products with vapor pressures less than 3.5 Kpa, tank is not subject to 40 CFR 60 Subpart Kb.										
T000724	1961	532266	Double Deck External Floating Roof	Mechanical Shoe	Compression Wiper	Diesel	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000724 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000724 became subject to 40 CFR 60 Subpart Kb. While tank stores products with vapor pressures less than 3.5 Kpa, tank is not subject to 40 CFR 60 Subpart Kb.										
T000725	1970	571200	Internal Floating Roof	Mechanical Shoe	Compression Wiper	Diesel	Multiple Product	Yes	Yes	Kb-->WW [40 CFR 60.110b(e)(5)]
Due to PTE gasoline product storage ability, tank T000725 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000725 became subject to 40 CFR 60 Subpart Kb. While tank stores products with vapor pressures less than 3.5 Kpa, tank is not subject to 40 CFR 60 Subpart Kb.										
T000726	1961	19950	Fixed Roof with Vapor Recovery	None	None	Transmix	Multiple Product	Yes	Yes	Not Requested
Due to PTE gasoline product storage ability, tank T000726 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service.										

Due to a previous permitting action, tank T000726 became subject to 40 CFR 60 Subpart Kb.										
T000727	1961	19950	Fixed Roof	None	None	Gasoline Additive	Gasoline Additive	Yes	No	Not Requested
Due to PTE gasoline product storage ability, tank T000727 is subject to 40 CFR 63 Subpart BBBBBB when in gasoline service. Due to a previous permitting action, tank T000727 became subject to 40 CFR 60 Subpart Kb.										
B014070	2011	350	Fixed Roof	None	None	Lubricity and Conductivity Agent	Lubricity and Conductivity Agent	No	No	Not Applicable
Not subject to Kb due to size (less than 75m3 or 19,812 gal). Not subject to K or Ka due to year of construction. Not subject to Subpart BBBBBB by not being a gasoline storage tank or vessel. Tank B014070 PTE was modeled using lubricity/conductivity agent.										