



FEDERAL OPERATING PERMIT

Permit No.: 102103122

Company: SB County Waste Mang. Div.

Facility: Barstow Sanitary Landfill

Issue date: TBD

Expiration date: TBD + 5 - Years

**MOJAVE DESERT
AIR QUALITY
MANAGEMENT
DISTRICT**

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Signed and issued by

BRAD POIRIEZ

EXECUTIVE DIRECTOR/

AIR POLLUTION CONTROL OFFICER

PERMIT REVISIONS

February 14, 2023: Renewal of Title V Permit; processed by May Mamari

Please review to the Statement of Basis Preliminary Determination document dated February 14, 2023 for full details.

November, 2021: Renewal of Title V Permit; Samuel Oktay, PE

Updated: Responsible Official, and Facility Site Contact: Page I-4;

Updated Facility Description: Pages I-5 thru I-6;

Updated FOP Section II: Pages II-7 thru II-22;

Updated FOP Section III: Pages III-23 thru III-27;

Updated FOP Section IV: Pages IV-28 thru IV-30;

Updated FOP Section V: Pages V-31 thru V-32

Updated FOP Section VI: Pages VI-33 thru VI-34, and

Updated FOP Section VII: Pages VII-35 thru VII-39.

July 12, 2016: Initial Issuance of Title V Permit; Samuel Oktay, PE

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**PART I
INTRODUCTORY INFORMATION**

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: San Bernardino County Solid Waste Management Division
Facility Names: Barstow Sanitary Landfill (BSL)
Facility Location: 32553 Barstow Road
Barstow, California 92311
Mailing Address: 222 W. Hospitality Lane, Second Floor
San Bernardino, CA 92415-0017
Federal Operating Permit Number: 102103122
MDAQMD Company Number: 1021
MDAQMD Facility Number: 3122
Responsible Official: Marc Rodabaugh, P.E.
Chief Engineer
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Marc.Rodabaugh@dpw.sbcounty.gov
Facility "Site" Contact(s): Marc Rodabaugh, P.E.
Chief Engineer
909-386-9017
Marc.Rodabaugh@dpw.sbcounty.gov
Facility "Off Site" Contact(s): None
Nature of Business: Landfill
SIC/NAICS Code: 9511/562212
Facility Coordinates 34.83617°/-117.01773° (lat/long)

B. FACILITY DESCRIPTION:

The San Bernardino County Solid Waste Management Division – Barstow Sanitary Landfill (BSL) is an active landfill that disposes of municipal solid waste (MSW). BSL has been in operation since 1963; and, has been owned and operated by the County of San Bernardino since 1963. BSL is located at 32553 Barstow Road in Barstow, California. BSL has a maximum permitted throughput of 1,500 tons per day; a capacity of 80,354,500 cubic yards; and, has an area of approximately 645 acres, with 331 acres permitted as refuse area. The waste in place at closure is anticipated to be 2,266, 273 short tons (2,060,249 megagrams). The remaining capacity as of December 31, 2014 is 71,481,660 cubic yards. The facility is permitted through a Solid Waste Permit to accept Agricultural, Construction/Demolition, Industrial, Mixed municipal, and, Sludge (BioSolids) waste types.

On November 5, 2009, the MDAQMD issued a permit to construct the Gas Collection and Control System which was installed for direct remediation of migration impacts as required by 27 CCR, sections 20917 through 20939 – It should be noted that this regulation is a State Water Resources Control Board & CalRecycle (Solid Waste) regulation and requirement (not an air quality requirement, nor implemented or enforced by the MDAQMD). On June 16, 2010 MDAQMD issued a revised permit for the final, more extensive Gas Collection and Control System. On July 12, 2016, BSL was issued their initial Federal Title V Permit. Title V applicability is triggered for BSL by the Emission Guidelines (EG) for Municipal Solid Waste (MSW) Landfills, promulgated under 40 Code of Federal Regulations (CFR) Part 60, Subpart Cf - *Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills*.

The Gas Collection and Control System (District Permit C010719) consists of collection wells and piping network for extracting landfill gas from the waste and surrounding soil which are connected by a header system connecting those wells to a treatment facility. The treatment facility includes two blowers, a LFG Filter, and a condensate knockout vessel all as described in the Equipment Description below. The majority of the landfill gas emissions are collected by this system, which includes HAPs, VOC, and NMOC. BSL currently has three (3) granular activated carbon (GAC) vessels (2,000 lbs each) and two potassium permanganate (KMnO₄) vessels (1,000 lbs each) that are designed to treat the landfill gas to remove organic constituents out.

C. EQUIPMENT DESCRIPTION

BSL includes the following equipment permitted under valid District Permit C010719:

Equipment Description
Vertical Extraction Wells - 76 divided between the following:
Soil Vapor Extraction (SVE) Well
Landfill Gas (LFG) Well
Manual Condensate Tanks - 2 each
Landfill Gas Filter and Knockout Vessel - 1 each -#V-1: Manufactured by: Real Environmental Products, Series 8000 Knockout Vessel with Demister Filter pad (rated at 99.9% removal efficiency on 6 micron or greater particle size), and design flow of 500 scfm LFG, or equivalent. Effective Capacity Range is 0-500 scfm.
Carbon Adsorption Vessels V-2A/B/C: Manufactured by: Tetra Solv, Model Kleenair- VFV-2000, carbon adsorption vessels, 3 canisters each containing 2000, lbs. of Granular Activated Carbon (GAC) to adsorb the non-methane contaminants in the LFG, design flow rate of up to 500 scfm LFG, or equivalent. Two canisters in series, one as back-up. Effective Capacity Range is 3-500 scfm.
Blower (B-1A/operating and B-1B/spare): Manufactured by: Gardner-Denver, Type: Multistage centrifugal with cast iron inlet and outlet heads, Model: 4206, Motor: 25 HP premium efficient electric motor, Class 1 Div. 2 inverter Duty with 10:1 turndown, 460 Volt/3 Phase/60 hertz with a Variable Frequency Drive (VFD), or equivalent. An identical Gardner-Denver Blower will be installed as a redundant blower to serve as back-up in the event of primary blower failure.
Flow Element/Flow Transmitter (FE/FT-1): Manufactured by: Sage; Model Prime, Thermal Mass Flow Meter, 0-500 scfm LFG at 0-100-inches Water Column (W.C.) vacuum, or equivalent. Effective Capacity Range is 0-500 scfm.
Potassium Permanganate (KMnO4) Vessels V-3A/B: Manufactured by: Tetra Solv, Model VFV-1000, KMnO4 vessels, 2 canisters each containing 1,000 lbs. of KMN media to remove by oxidation the lighter fraction of Non-Methane Non-Ethane Organic Compounds (NMNEOCs) (e.g., vinyl chloride) in the LFG, design flow rate of up to 500 scfm LFG, or equal. One in series, post GAC, and one as back-up. Effective Capacity Range is 0- 500 scfm.

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 permit to construct is required to build, erect, install, alter or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants.
[District Rule 201 - *Permits to Construct*]
2. A permit is required to operate this facility. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.
[District Rule 203 - *Permit to Operate*]
3. The Air Pollution Control Officer may impose written conditions on any permit to assure compliance with all applicable regulations.
[District Rule 204 - *Permit Conditions*]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[District Rule 204 - *Permit Conditions*]
5. Posting of the Permits to Operate may be posted in a visible location within the facility office.
[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.
[District Rule 209 - *Transfer and Voiding of Permit*]
8. The Air Pollution Control Officer (APCO) may require the applicant or permittee 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 applicant 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 - *Provision for Sampling and Testing Facilities*]
9. 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 Written Permit*]

10. This Facility, which is subject to the provisions of District Regulation XII, shall obtain a Federal Operating Permit.
[District Rule 221 - *Federal Operating Permit Requirement*]
11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[District Rule 301- *Permit Fees*]
12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[District Rule 312 - *Fees for Federal Operating Permits*]
13. 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) General Visible Emissions Limitation:
 - (i) 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
 - (ii) Of such opacity as to obscure an observer's view to a degree equal to or greater than 20% opacity.
 - (b) Abrasive Blasting Visible Emissions Limitation:
 - (i) For indoor operations using noncertified Abrasive Blasting materials, of such opacity as to obscure an observer's view to a degree equal to or greater than 20% opacity (or equivalent Ringelmann 1).
 - (ii) For outdoor operations using wet abrasive blasting, hydroblasting, vacuum blasting, or abrasives certified for permissible dry outdoor blasting materials, of such opacity as to obscure an observer's view to a degree equal to or greater than 40% opacity (or equivalent Ringelmann 2).
[District Rule 401 – *Visible Emissions*]
14. Any air contaminant from any emission source whatsoever located at this Facility, shall not be discharged into the Atmosphere for a period or periods aggregating more than three minutes in any one hour, which is as observed using EPA Method 9 (Visual Determination of the Opacity of Emissions from Stationary Sources). Visible emissions from this facility, of any air contaminant into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
 - (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and supplier's certification information.

- (b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:
- (i) Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.
 - (ii) Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.
 - (iii) Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5 year period.
 - (iv) On any of the above, if a visible emissions inspection documents opacity, an Environmental Protection Agency (EPA) Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[District Rule 204 - *Permit Conditions*]

[District Rule 401 - *Visible Emissions*]

[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

15. Owner/Operator shall not burn any gaseous fuel at this facility containing sulfur compounds in excess of 800 parts per million (ppm), calculated as hydrogen sulfide at standard conditions, or any liquid or solid fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site and available for review by District, state or federal personnel at any time. Compliance with Rule 431 fuel sulfur limit for diesel fuel is assumed for CARB certified diesel fuel. The sulfur content of non-CARB diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82, or ASTM method D 2880-71, or equivalent.

[District Rule 431 - *Sulfur Content of Fuels*]

[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

16. Except during high wind events, emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility. The owner/operator shall comply with the applicable requirements of Rule 403(C) including obtaining and maintaining a District-approved Dust Control Plan.

[District Rule 403 - *Fugitive Dust*]

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) 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 liquid or gaseous 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*]

18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM 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*]

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions 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), greater than or equal to 500 ppm by volume.
- (b) The following elements and compounds which would exist as a liquid or gas at standard conditions:

Element or Compound	Limitations (PPM by volume)
Hydrogen Fluoride (HF)	400
Hydrogen Chloride (HCl)	800
Hydrogen Bromide (HBr)	50
Bromine (Br)	50
Chlorine (Cl ₂)	450
Fluorine (F ₂)	50

This rule does not apply to combine 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*]

20. Owner/Operator shall not discharge into the atmosphere from 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*]

21. 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 that 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*]

- 22. 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 (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.

[District Rule 409 - *Combustion Contaminants*]

- 23. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that 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 and:

- (a) Any breakdown that 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 District 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 APCO.

[District Rule 430 - *Breakdown Provisions*]

- 24. Owner/Operator of this facility shall comply with all applicable requirements of District Rule 442 and must 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 this rule, 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 trichlorotrifluoroethane.
 - (v) Aerosol products.
 - (vi) VOC containing materials or equipment which are 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, and/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 shall not set open outdoor fires unless in compliance with District Rule 444. Outdoor fires burned according to an existing District permit are not considered “open outdoor fires” for the purposes of Rule 444 (reference District Rule 444(B)(9)).
[District Rule 444 - *Open Outdoor Fires*]
26. 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. Some of these requirements are listed as follows:
- (a) VOC Content
 - (i) 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 District Rule 1104.
 - (ii) As an alternative to, or in lieu of, the 25 grams of VOC per liter requirement indicated above, an Owner/Operator may use cleaning

materials with a VOC composite vapor pressure limit of 8 millimeters of mercury (mmHg) or less at 20 degrees Celsius.

(b) Control Equipment

(i) Owners and/or Operators may comply with subsection (C)(1)(a) of District Rule 1104 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:

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

(c) Cleaning Equipment and Method Requirements

(i) An Owner/Operator shall not perform Solvent cleaning unless one of the cleaning devices or methods contained in subsections a. through e. below is used, and the applicable requirements in subsections f. through k. below are used:

- a. Wipe Cleaning;
- b. Closed containers or hand held spray bottles from which Solvents are applied without a propellant-induced force;
- c. Cleaning Equipment which as a Solvent container that can be, and is closed during non-operation with the exception of maintenance and repair to the Equipment itself;
- d. 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
- e. 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.
- f. All Degreasers shall be equipped with the following:
 - (a) An apparatus or cover(s) which reduces solvent evaporation except for Remote Reservoirs.
 - (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in subsection (C)(4) of District Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser

where the operators can access the proper operating requirements of District Rule 1104.

- g. Remote Reservoirs shall be equipped with the following:
1. A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of Solvent within the work area.
 2. 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.
 3. 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.
 4. 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.
- h. Cold Solvent Degreasers - Freeboard Requirements:
1. Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 2. 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.
 3. Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 4. 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 1.
 5. Cold Solvent Degreasers using High Volatility Solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
 6. A permanent, conspicuous mark locating the maximum allowable Solvent level conforming to the applicable freeboard requirements.
- i. ConveyORIZED Cold Solvent Degreasers shall be equipped with the following:
1. A rotating basket or other method, to prevent cleaned parts from carrying out Solvent liquid.
 2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the cleaner openings are less

- than 10 centimeters (4 inches) or less than ten (10) percent of the opening width, whichever is greater.
3. A Freeboard Ratio equal to or greater than 0.75.
 4. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirement of subsection (C)(3)(i)(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health Administration requirements, and is approved in writing by the Air Pollution Control Officer (APCO).
- j. Batch-loaded Vapor Degreasers shall be equipped with the following:
1. A cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
 2. A Vapor Level Control Thermostat, a Condenser Flow Switch and a Spray Safety Switch.
 3. A Freeboard Ratio greater than or equal to 0.75.
 4. A Primary Condenser.
 5. In addition, Degreasers with an Evaporative Surface Area greater than or equal to one (1) square meter, shall be equipped with a Refrigerated Freeboard Chiller for which the chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air- Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).
 6. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy the requirements of subsections (C)(3)(j)(i) and(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and/or State Occupational

Safety and Health Administration requirements, and is approve in writing by the APCO.

- k. ConveyORIZED Vapor Degreasers shall be equipped with the following:
1. An enclosed drying tunnel or other method, such as a rotating basket, sufficient to prevent cleaned parts from carrying out Solvent liquid or vapor.
 2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the Degreaser openings are less than ten (10) centimeters (four (4) inches) or less than ten (10) percent of the opening, whichever is greater.
 3. A Primary Condenser.
 4. A Freeboard Ratio equal to or greater than 0.75.
 5. A vapor control thermostat, a Condenser Flow Switch, and a Spray Safety Switch.
 6. Additionally, a Refrigerated Freeboard Chiller for which the chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air- Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).
 7. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirements of subsections (C)(3)(k)(iv) and (vi) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters/min per square meter of Degreaser opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health Administration requirements, and is approved in writing by the District APCO.

(d) Operating Requirements

- (i) All Degreasers shall comply with the following requirements:
- a. Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
 - b. Degreasers shall not be operating with any detectable solvent leaks.
 - c. 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.
- d. 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.
 - e. Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
 - f. Solvent carryout shall be minimized by the following methods:
 - 1. Rack workload arranged to promote complete drainage
 - 2. 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.
 - 3. Retain the workload inside of the vapor zone until condensation ceases.
 - 4. Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - 5. 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.)
 - g. The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
 - h. Except for sealed chamber degreasers, all solvent agitation shall be by pump recirculation, a mixer, or ultrasonics.
 - i. 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.
 - j. For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
 - k. Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
 - l. Cleaning operations shall be located so as to minimize air circulation and drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
 - m. 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.
- (ii) Batch-loaded and Conveyorized Degreasers shall, in addition to the requirements in subsection (C)(4)(a), meet the following operating requirements:
 - a. When starting the Degreaser, the cooling system shall be turned on before, or simultaneously with, the sump heater.
 - b. When shutting down the Degreaser, the sump heater shall be turned off before, or simultaneously with, the cooling system.
 - c. The Workload Area shall not occupy more than half of the Evaporative Surface Area of the Degreaser.
 - d. Except for Sealed Chambers, the spray must be kept at least ten (10) centimeters (four (4) inches) below the top of the vapor level and be pointed downward, to prevent turbulence at the air-Solvent vapor interface.
 - (iii) Remote Reservoir Degreasers shall, in addition to the applicable requirements in subsection (C)(4)(a) of District Rule 1104, meet the following operating requirements:
 - a. The Solvent pump shall not circulate Solvent into the sink unless a Workload is being actively processed.
 - b. The sink of a Remote Reservoir Degreaser or any container placed therein may not be used to soak a Workload. Such use is prohibited and such use will cause the unit to be classified as a Cold Solvent Degreaser and be subject to provisions of subsection (C)(3)(h) of District Rule 1104.
 - c. Parts shall be visually dry and not dripping/leaking Solvent before being removed from the sink. Parts shall be tipped to release any trapped pools of Solvent before being removed from the sink.
 - d. The Workload must “drip-dry” while being contained completely within the sink.
 - (e) 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.
 - (f) 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.

[District Rule 1104 – *Organic Solvent Degreasing Operations*]

- 27. Owner/Operator’s use of Architectural Coatings at this facility shall comply with the applicable requirements of District Rule 1113, including the VOC limits specified in District Rule 1113, Tables 1 and 2.
[District Rule 1113 - *Architectural Coatings*]
- 28. Owner/Operator’s use of Wood Products Coatings at this facility shall comply with the applicable requirements of District Rule 1114, including, but not limited to, Application Methods, VOC Content of Coatings, and Strippers, Surface Preparation and Cleanup Solvent.
[District Rule 1114 - *Wood Products Coating Operations*]
- 29. 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, Application Methods, VOC Content of Coatings, and Strippers, Surface Preparation and Cleanup Solvent.
[District Rule 1115 - *Metal Parts and Products Coatings Operations*]
- 30. The owner/operator shall comply with District Rule 1126, Municipal Solid Waste Landfills, by implementing the provisions of 40 Code of Federal Regulations (CFR) Part 60, Subpart Cf - Emission Guidelines and Compliance Times for MSW Landfills.
[District Rule 1126 - *Municipal Solid Waste Landfills*]
- 31. 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 in Table 1 of District Rule 1168, as well as, the Solvent Cleaning Operations and

Transfer Efficiency requirements.

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

32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).
[Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
33. 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 - *Greenhouse Gas Provisions of Federal Operating Permits*]
34. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after this FOP expiration date. If the permit renewal has not been issued by this FOP expiration date, but a timely application for renewal has been submitted and deemed complete in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.
[District Rule 1202(B)(3)(b)(i); District Rule 1202(E)(2)(a)]
35. If the facility becomes subject to Title IV of the Clean Air Act, then the owner/operator shall request a modification to the Title V permit and prepare and submit the Title IV application forms.
[Rule 1203(D)]
36. Maintenance, service, repair or disposal of equipment containing ozone depleting compounds as defined in Appendix A and Appendix B to Subpart A of 40 CFR Part 82 shall be performed by persons certificated by a technician certification program approved pursuant to 40 CFR Part 82.
[40 CFR Part 82]
37. If the facility becomes subject to 40 CFR Part 68 (Risk Management Plan (RMP)) and/or 10 CCR §2735 et al. (California Accidental Release Program - CalARP), then the owner/operator shall submit and maintain a Risk Management Plan as required in the specified regulations.
[40 CFR Part 68]

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 – *Permit Conditions*]
3. Owner/Operator of permit 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 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 are sufficient.
[District Rule 204 – *Permit Conditions*]
[40 CFR 70.6(a)(3)(B) – *Periodic Monitoring Requirements*; Rule 204; Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]
4. Owner/Operator shall submit, annually, a Compliance Certification as prescribed by District Rule 1203(F)(1) and District Rule 1208, in a format approved by MDAQMD. Compliance Certifications 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; the statements and information in the document are true, accurate, and complete.
[District Rule 1203(D)(1)(g)(v-x)]
[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 shall comply with any additional certification requirements as specified in 42 United States Code (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 thereunder.

[District Rule 1203(D)(1)(g)(x)]

- (c) Each report shall be certified to be true, accurate, and complete by “The Responsible Official” and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.

[District Rule 1203(D)(1)(g)(v - x)]

[40 CFR 72.90.a]

- (d) The annual Compliance Certification shall be submitted as follows:

Report covering January 1 - December 31	Due by January 30
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- 5. The owner/operator shall submit, semi-annually, a Monitoring Report to the APCO/District. The Monitoring Reports shall be certified to be true, accurate, and complete, signed by the 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) to determine compliance with any Applicable Requirement/federally enforceable requirement that does not directly require such monitoring.
- (d) Summary of necessary requirements concerning use and maintenance of equipment, including the installation and maintenance of monitoring equipment.
- (e) The semi-annual reporting periods shall be submitted as follows:

Report covering January 1 - June 30	Due by July 31
Report covering July 1 - December 31	Due by January 30

[District 1203(D)(1)(c)(i - iii); District 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) and District Rule 430(C)]

Prompt reporting shall be determined as follows:

- (a) For deviations involving emissions of air contaminants in excess of permit

conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour 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.

[SIP Pending: District Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

- (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any 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 obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, 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 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, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative 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.

[Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

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.
[District Rule 1203(D)(1)(g)(i)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(ii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iv)]
[40 CFR 70.6(c)(2)(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.
[District 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.
[District Rule 1201(I)(2) and District Rule 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure 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 subpart M, Asbestos.
[40 CFR 61, Subparts A and M]

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

- A. This facility is subject to the Regulation to Achieve Greenhouse Gas Emission Reductions - Methane Emissions from Municipal Solid Waste Landfills [17 CCR 95460 – 95476]. Under this regulation, this facility is defined as an Active MSW Landfill Greater Than or Equal to 450,000 tons of Waste-in-Place [§95463(b)]. This facility has a calculated landfill gas heat input capacity (HIC) less than 3.0 MMBtu/hr [§95463(b)(1)].**
1. The owner/operator must recalculate the landfill gas heat input capacity annually using the procedures specified in condition 12 of Part III, Section A [17 CCR 95471(b)]. The owner/operator must submit an annual Landfill Gas Heat Input Capacity Report to the Executive Officer (District) until either of the following conditions is met:
 - (a) The calculated landfill gas heat input capacity is greater than or equal to 3.0 MMBtu/hr recovered, or
 - (b) The owner/operator submits a Closure Notification pursuant to condition 8 of Part III, Section A [17 CCR 95470(b)(1)].
[17 CCR 95463(b)(1), federal authority: 40 CFR 62.1100(b)(7)]
 2. If the landfill gas heat input capacity is greater than or equal to 3.0 MMBtu/hr recovered the owner/operator must either:
 - (a) Comply with the requirements of sections 17 CCR 95464 through 95476, as outlined in condition 3 of Part III, Section A, which includes the installation and operation of the gas collection and control system, or
 - (b) Demonstrate to the satisfaction of the Executive Officer (District) that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume (ppmv) or greater using the instantaneous surface monitoring procedures specified in 17 CCR sections 95471(c) and 95471(c)(2). Based on the monitoring results, the owner or operator must do one of the following:
 - i. If there is any measured concentration of methane of 200 ppmv or greater from the surface of an active, inactive, or closed MSW landfill, comply with condition 2(a) of Part III, Section A;
 - ii. If there is no measured concentration of methane of 200 ppmv or greater from the surface of an active MSW landfill, comply with section 95463(b) as specified in conditions 1 and 2 of Part III, Section A and recalculate the landfill gas heat input capacity annually as required in section 95463(b) as specified in conditions 1 and 2 of Part III, Section A until such time the owner/operator submits a Closure Notification pursuant to condition 8 of Part III, Section A [17 CCR 95470(b)(1); or
 - iii. If there is no measured concentration of methane of 200 ppmv or greater from the surface of a closed or inactive MSW landfill, the requirements of 17 CCR sections 95464 through 95470 no longer apply provided that the

following information is submitted to and approved by the Executive Officer (District) within 90 days:

- a. Waste-in-Place Report pursuant to section 17 CCR 95470(b)(4); and
- b. All instantaneous surface monitoring records.

[17 CCR 95463(b)(2), federal authority: 40 CFR 62.1100(b)(7)]

3. If the owner/operator is required to meet the requirements of condition 2(a) of Part III, Section A, the owner/operator must submit a Design Plan to the Executive Officer (District) within one year of detecting any leak on the landfill surface exceeding a methane concentration of 200 ppmv as required by condition 2(b) of Part III, Section A pursuant to 17 CCR 95463(b)(2)(B). Additionally, simultaneously with the submission of the Design Plan to the Executive Director (District) the owner/operator must submit a modification to this permit to incorporate the installation and operating requirements of a Gas Collection and Control System pursuant to 17 CCR 95460 – 95476. At a minimum, the Design Plan must meet the following requirements:
 - (a) The Design Plan must be prepared and certified by a professional engineer.
 - (b) The Design Plan must provide for the control of the collected gas through the use of a gas collection and control system meeting the requirements of either sections 17 CCR 95464(b)(1), 95464(b)(2) or 95464(b)(3).
 - (c) The Design Plan must include any proposed alternatives to the requirements, test methods, procedures, compliance measures, monitoring, and recordkeeping or reporting requirements pursuant to section 17 CCR 95468.
 - (d) A description of potential mitigation measures to be used to prevent the release of methane or other pollutants into the atmosphere during the installation or preparation of wells, piping, or other equipment; during repairs or the temporary shutdown of gas collection system components; or, when solid waste is to be excavated and moved.
 - (e) For active MSW landfills, the design plan must identify areas of the landfill that are closed or inactive.
 - (f) Design the gas collection and control system to handle the expected gas generation flow rate from the entire area of the MSW landfill and to collect gas at an extraction rate to comply with the surface methane emission limits in section 95465 and component leak standard in section 17 CCR 95464(b)(1)(B). The expected gas generation flow rate from the MSW landfill must be calculated pursuant to section 17 CCR 95471(e).
 - (i) Any areas of the landfill that contain only asbestos-containing waste, inert waste, or non-decomposable solid waste may be excluded from collection provided that the owner or operator submits documentation to the Executive Officer (District) containing the nature, date of deposition, location and amount of asbestos or non-decomposable solid waste deposited in the area. This documentation may be included as part of the Design Plan.

[17 CCR 95464(a)(1), federal authority: 40 CFR 62.1100(b)(7)]

4. If the owner/operator is required to meet the requirements of condition 2(a) of Part III, Section A, the owner/operator must install and operate a gas collection and control

system within 18 months after approval of the Design Plan. If an owner/operator is modifying an existing gas collection and control system to meet the requirements of this 17 CCR 95460 – 95476, the existing Design Plan must be amended to include any necessary updates or addenda, and must be certified by a professional engineer. An amended Design Plan must be submitted to the Executive Officer (District) within 90 days of any event that requires a change to the Design Plan. The gas collection system must be operated, maintained, and expanded in accordance with the procedures and schedules in the approved Design Plan.

[17 CCR 95464(a)(2)-(6), federal authority: 40 CFR 62.1100(b)(7)]

5. The owner/operator may request alternatives to the compliance measures, monitoring requirements, test methods and procedures of 17 CCR 95464 and 95471, as outlined in conditions 3, 11, and 12 of Part III, Section A. Any alternatives requested by the owner or operator must be submitted in writing to the Executive Officer (District). The District will review the requested alternatives and either approve or disapprove the alternatives within 120 days. The District may request that additional information to be submitted as part of the review of the requested alternatives.
 - (a) If a request for an alternative compliance option is denied, the District will provide written reasons for the denial.
 - (b) The District must deny the approval of any alternatives not providing equivalent levels of enforceability or methane emission control.[17 CCR 95468(a)and(c), federal authority: 40 CFR 62.1100(b)(7)]

6. The owner/operator must maintain the following records, whether in paper, electronic, or other format, for at least five (5) years:
 - (a) Annual solid waste acceptance rate and the current amount of waste-in-place.
 - (b) Records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system, if there is one installed.
 - (c) Records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere:
 - (i) When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment;
 - (i) During repairs or the temporary shutdown of gas collection system components, if any; or,
 - (iii) When solid waste was excavated and moved.
 - (d) Records of any construction activities pursuant to 17 CCR 95466. The records must contain the following information:
 - (i) A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions.
 - (ii) Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components.
 - (iii) A description of the mitigation measures taken to minimize methane

- emissions and other potential air quality impacts.
[17 CCR 95470(a)(1), federal authority: 40 CFR 62.1100(b)(7)]
7. The owner/operator must maintain copies of the records and reports required by Part III, Section A of this permit [17 CCR 95464 - 95476] and provide them to the District within five business days upon request. Records and reports must be kept at a location within the State of California.
[17 CCR 95470(a)(3), federal authority: 40 CFR 62.1100(b)(7)]
 8. Any owner/operator of a MSW landfill which has ceased accepting waste must submit a Closure Notification to the Executive Officer (District) within 30 days of waste acceptance cessation.
 - (a) The Closure Notification must include the last day solid waste was accepted, the anticipated closure date of the MSW landfill, and the estimated waste-in-place.
 - (b) The District may request additional information as necessary to verify that permanent closure has taken place in accordance with the requirements of any applicable federal, State, local, or tribal statutes, regulations, and ordinances in effect at the time of closure.[17 CCR 95470(b)(1), federal authority: 40 CFR 62.1100(b)(7)]
 9. The owner/operator must calculate the landfill gas heat input capacity annually using the calculation procedures specified in condition 12 of Part III, Section A [17 CCR 95471(b)] and report the results to the Executive Officer (District) within 90 days. The calculation, along with relevant parameters, must be provided as part of the report.
[17 CCR 95470(b)(5), federal authority: 40 CFR 62.1100(b)(7)]
 10. Any report, or information submitted pursuant to Part III, section A of this permit [17 CCR 95460 – 95476] must contain certification by a Responsible Official of truth, accuracy, and completeness. This certification, and any other certification required under Part III, section A of this permit [17 CCR 95460 – 95476], must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
[17 CCR 95470(b)(6), federal authority: 40 CFR 62.1100(b)(7)]
 11. Any instrument used for the measurement of methane must be a gas detector or other equivalent instrument approved by the District that meets the calibration, specifications, and performance criteria of EPA Reference Method 21, Determination of Volatile Organic Compound Leaks, 40 CFR Part 60, Appendix A (as last amended 65 Fed.Reg. 61744 (October 17, 2000)), which is incorporated by reference herein, except for the following:
 - (a) “Methane” replaces all references to volatile organic compounds (VOC).
 - (b) The calibration gas shall be methane.[17 CCR 95471(a), federal authority: 40 CFR 62.1100(b)(7)]
 12. The landfill gas heat capacity must be determined by measuring the actual total landfill gas flow rate, in standard cubic feet per minute (scfm), using a flow meter or other flow

measuring device such as a standard pitot tube and methane concentration (percent by volume) using a hydrocarbon detector meeting the requirements of condition 11 of Part III, Section A [17 CCR 95471(a)]. The total landfill gas flow rate must be multiplied by the methane concentration and then multiplied by the gross heating value (GHV) of methane of 1,012 Btu/scf to determine the landfill gas heat input capacity. [17 CCR 95471(b)(2), federal authority: 40 CFR 62.1100(b)(7)]

B. This facility is subject to the National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills [40 CFR 63, Subpart AAAA]. Under this regulation, this facility is defined as an existing, area source, MSW landfill, that has a design capacity equal to greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions less than 50 megagrams per year (Mg/yr) NMOC as calculated according to 40 CFR 63.1959.

1. At all times, the owner/operator must operate and maintain the MSW Landfill, including any applicable associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner/operator to make any further efforts to reduce emissions if the requirements of 40 CFR 63, Subpart AAAA have been achieved as summarized by Part III, Section B of this permit. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator (District) which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.1955(c)]
2. The owner/operator must determine the site-specific NMOC concentration using the following sampling procedure. The landfill owner or operator must install at least two sample probes per hectare, evenly distributed over the landfill surface that has retained waste for at least 2 years. If the landfill is larger than 25 hectares in area, only 50 samples are required. The probes should be evenly distributed across the sample area. The sample probes should be located to avoid known areas of nondegradable solid waste. The owner/operator must collect and analyze one sample of landfill gas from each probe to determine the NMOC concentration using EPA Method 25 or 25C of appendix A-7 to part 60. Taking composite samples from different probes into a single cylinder is allowed; however, equal sample volumes must be taken from each probe. For each composite, the sampling rate, collection times, beginning and ending cylinder vacuums, or alternative volume measurements must be recorded to verify that composite volumes are equal. Composite sample volumes should not be less than one liter unless evidence can be provided to substantiate the accuracy of smaller volumes. Terminate compositing before the cylinder approaches ambient pressure where measurement accuracy diminishes. If more than the required number of samples are taken, all samples must be used in the analysis. The landfill owner/operator must divide the NMOC concentration from EPA Method 25 or 25C of appendix A-7 to part 60 by 6 to convert from C_{NMOC} as carbon to C_{NMOC} as hexane. If the landfill has an active or passive gas removal system in

place, EPA Method 25 or 25C samples may be collected from these systems instead of surface probes provided the removal system can be shown to provide sampling as representative as the two sampling probe per hectare requirement. For active collection systems, samples may be collected from the common header pipe. The sample location on the common header pipe must be before any gas moving, condensate removal, or treatment system equipment. For active collection systems, a minimum of three samples must be collected from the header pipe.

- (a) Within 60 days after the date of completing each performance the owner/operator must submit the results according to condition 11 of Part III, section B [40 CFR 63.1981(l)(1).
 - (b) The landfill owner/operator must recalculate the NMOC mass emission rate using Equation 1 specified in condition 7 of Part III, section B [40 CFR 63.1959(a)(1)(i)] or Equation 2 specified in condition 8 of Part III, section B [40 CFR 63.1959(a)(1)(ii)] and use the average site-specific NMOC concentration from the collected samples instead of the default value provided in paragraph (a)(1) of this section.
 - (c) If the resulting NMOC mass emission rate is less than 50 Mg/yr, then the owner/operator must submit a periodic estimate of NMOC emissions in an NMOC emission rate report according to condition 10 of Part III, section B [40 CFR 63.1981(c)] and must recalculate the NMOC mass emission rate annually as required condition 4 of Part III, section B [40 CFR 63.1959(b)]. The site-specific NMOC concentration must be retested every 5 years using the methods specified in this condition.
 - (d) If the NMOC mass emission rate as calculated using the Tier 2 site-specific NMOC concentration is equal to or greater than 50 Mg/yr, the landfill owner or operator must either:
 - (i) Submit a gas collection and control system design plan within 1 year following the requirements specified in 40 CFR 63.1981(d) and install and operate a gas collection and control system within 30 months according to 40 CFR 63.1959(b)(2)(ii) and (iii); or
 - (ii) Determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the Tier 3 procedures specified in condition 3 of Part III. Section B [40 CFR 63.1959(a)(4)].
- [40 CFR 63.1959(a)(3)]

3. Should the owner/operator elect to follow the Tier 3 procedure and recalculate the site-specific methane generation rate constant pursuant to condition 2(d)(ii) of Part III, Section B, it must be determined using the procedures provided in EPA Method 2E of appendix A-1 to 40 CFR 60, Subpart AAAA. The landfill owner/operator must estimate the NMOC mass emission rate using Equation 1 specified in condition 7 of Part III, section B [40 CFR 63.1959(a)(1)(i)] or Equation 2 specified in condition 8 of Part III, section B [40 CFR 63.1959(a)(1)(ii)] using a site-specific methane generation rate constant, and the site-specific NMOC concentration as determined in 40 CFR 63.1959(a)(3)] specified in condition 2 of Part III, section B instead of the default values provided in condition 6 of Part III, section B [40 CFR 63.1959(a)(1)]. The landfill

owner/operator must compare the resulting NMOC mass emission rate to the standard of 50 Mg/yr.
[40 CFR 63.1959(a)(4)]

4. Each owner or operator of an affected source having a design capacity equal to or greater than 2.5 million Mg and 2.5 million m³ must either comply with 40 CFR 63.1959(b)(2), as outlined in condition 5 of Part III, section B or calculate an NMOC emission rate for the landfill using the applicable procedures specified in 40 CFR 63.1959(a). The NMOC emission rate must be recalculated annually, except as provided in condition 10(a)(ii)(a) of Part III, section B [40 CFR 63.1981(c)(1)(ii)(A)].
 - (a) If the calculated NMOC emission rate is less than 50 Mg/yr, the owner/operator must:
 - (i) Submit an annual NMOC emission rate emission report to the Administrator (District), except as provided for condition 10(a)(ii) of Part III, section B [40 CFR 63.1981(c)(1)(ii)]; and
 - (ii) Recalculate the NMOC emission rate annually using the procedures specified in condition 6 of Part III, section B [40 CFR 63.1959(a)(1)] until such time as the calculated NMOC emission rate is equal to or greater than 50 Mg/yr, or the landfill is closed.
 - a. If the calculated NMOC emission rate, upon initial calculation or annual recalculation required in 40 CFR 63.1959(b), is equal to or greater than 50 Mg/yr, the owner/operator must either: comply with 40 CFR 63.1959(b)(2) as outlined condition 5 of Part III, section B; or, calculate NMOC emissions using the next higher tier as outlined in condition 3 of Part III, section B [40 CFR 63.1959(a)].
 - b. If the landfill is permanently closed, a closure report must be submitted to the Administrator (District) as specified in condition 12 of Part III, section B [40 CFR 63.1981(f)].

[40 CFR 63.1959(b)(1)]

5. If the calculated NMOC emission rate is equal to or greater than 50 Mg/yr using Tier 1, 2, or 3 procedures, the owner/operator must either:
 - (a) Submit a collection and control system design plan prepared by a professional engineer to the Administrator (District) within 1 year as specified in 40 CFR 63.1981(d); or, calculate NMOC emissions using the next higher tier outlined in condition 3 of Part III, section B [40 CFR 63.1959(a)]. The collection and control system must meet the requirements in 40 CFR 63.1959(b)(2)(ii) and (iii).
 - (c) If the owner/operator elects to submit a collection and control system design plan to the Administrator (District) the owner/operator must, simultaneously, submit a modification to this permit to incorporate the installation and operating requirements of a collection and control system pursuant to 40 CFR 63, Subpart AAAA.

[40 CFR 63.1959(b)(2)]

6. The owner/operator must calculate the NMOC emission rate using either Equation 1

specified in condition 7 of Part III, section B [40 CFR 63.1959(a)(1)(i)] or Equation 2 specified in condition 8 of Part III, section B [40 CFR 63.1959(a)(1)(ii)]. Both Equation 1 and Equation 2 may be used if the actual year-to-year solid waste acceptance rate is known, as specified in condition 7 of Part III, section B [40 CFR 63.1959(a)(1)(i)] of this section, for part of the life of the landfill and the actual year-to-year solid waste acceptance rate is unknown, as specified in condition 8 of Part III, section B [40 CFR 63.1959(a)(1)(ii)], for part of the life of the landfill. The values to be used in both Equation 1 and Equation 2 are 0.05 per year for k, 170 cubic meters per megagram (m³/Mg) for L_o, and 4,000 parts per million by volume (ppmv) as hexane for the C_{NMOC}. For landfills located in geographical areas with a 30-year annual average precipitation of less than 25 inches, as measured at the nearest representative official meteorologic site, the k value to be used is 0.02 per year. [40 CFR 63.1959(a)(1)]

7. The owner/operator must use Equation 1 if the actual year-to-year solid waste acceptance rate is known.

$$M_{NMOC} = \sum_{i=1}^n 2 k L_o M_i (e^{-kt_i}) (C_{NMOC}) (3.6 \times 10^{-9}) \text{ (Eq. 1)}$$

Where:

M_{NMOC} = Total NMOC emission rate from the landfill, Mg/yr.

k = Methane generation rate constant, year⁻¹.

L_o = Methane generation potential, m³/Mg solid waste.

M_i = Mass of solid waste in the ith section, Mg.

t_i = Age of the ith section, years.

C_{NMOC} = Concentration of NMOC, ppmv as hexane.

3.6 × 10⁻⁹ = Conversion factor.

- (a) The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for M_i if documentation of the nature and amount of such wastes is maintained. [40 CFR 63.1959(a)(1)(i)]

8. The owner/operator must use Equation 2 if the actual year-to-year solid waste acceptance rate is unknown.

$$M_{NMOC} = 2L_o R (e^{-kc} - e^{-kt}) C_{NMOC} (3.6 \times 10^{-9}) \text{ (Eq. 2)}$$

Where:

M_{NMOC} = Mass emission rate of NMOC, Mg/yr.

L_o = Methane generation potential, m³/Mg solid waste.

R = Average annual acceptance rate, Mg/yr.

k = Methane generation rate constant, year⁻¹.

t = Age of landfill, years.

C_{NMOC} = Concentration of NMOC, ppmv as hexane.

c = Time since closure, years; for active landfill c=0 and e^{-kc} = 1.

3.6 × 10⁻⁹ = Conversion factor.

- (a) The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value of R, if documentation of the nature and amount of such wastes is maintained.
[40 CFR 63.1959(a)(1)(ii)]
9. The owner/operator must submit the reports specified below and in Table 1 of 40 CFR 63, Subpart AAAA. If the owner/operator has previously submitted a design capacity report, amended design capacity report, initial NMOC emission rate report, initial or revised collection and control system design plan, closure report, equipment removal report, or initial performance test under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a federal plan or EPA-approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc or 40 CFR part 60, subpart Cf, then that submission constitutes compliance with the corresponding reports listed below. The owner/operator does not need to re-submit the report(s). However, the owner/operator must include a statement certifying prior submission of the respective report(s) and the date of submittal in the first semi-annual report required in this section.
- (a) Initial Design Capacity Report pursuant to 40 CFR 63.1981(a).
 - (b) Amended Design Capacity Report pursuant to 40 CFR 63.1981(b) when applicable.
 - (c) NMOC Emission Rate Report pursuant to 40 CFR 63.1981(c) as outlined by condition 10 of Part III, Section B.
 - (d) Closure Report pursuant to 40 CFR 63.1981(f), as outlined by condition 12 of Part III, Section B.
- [40 CFR 63.1981]
10. The owner/operator must submit a copy of the latest NMOC emission rate report that was submitted according to 40 CFR 60.757(b) of this chapter; or, submit an NMOC emission rate report to the Administrator (District) initially and annually thereafter, except as provided for in condition 10(a)(ii)(a) of Part III, Section B. The Administrator (District) may request such additional information as may be necessary to verify the reported NMOC emission rate. If the owner/operator has submitted an annual report under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a Federal plan or EPA-approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc or 40 CFR part 60, subpart Cf, then that submission constitutes compliance with the annual NMOC emission rate report in this paragraph. You do not need to re-submit the annual report for the current year. Beginning no later than September 27, 2021, the report must meet the following requirements:
- (a) The NMOC emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR 63.1959(a) or (b), as applicable, as outlined in conditions 2, 3, and 6 of Part III, Section B.
 - (i) The initial NMOC emission rate report must be submitted no later than 90 days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996.
 - (ii) Subsequent NMOC emission rate reports must be submitted annually

thereafter, except as provided for in in condition 10(a)(ii)(a) of Part III, Section B.

- a. If the estimated NMOC emission rate as reported in the annual report to the Administrator (District) is less than 50 Mg/yr in each of the next 5 consecutive years, the owner/operator may elect to submit, an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate must include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based must be provided to the Administrator (District). This estimate must be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate must be submitted to the Administrator (District). The revised estimate must cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.
- b. The report must be submitted following the procedure specified condition 11 of Part III, Section B [40 CFR 63.1981 (1)(2)].
- (b) The NMOC emission rate report must include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.
- (c) Each owner/operator subject to the requirements of this subpart is exempted from the requirements to submit an NMOC emission rate report, after installing a collection and control system that complies with 40 CFR 63.1959(b)(2), during such time as the collection and control system is in operation and in compliance with 40 CFR 63.1958 and 63.1960.

[40 CFR 63.1981(c)]

11. The owner/operator must submit reports electronically as follows:

- (a) The owner/operator is required to submit reports following the procedure specified in this paragraph must submit reports to the EPA via CEDRI. CEDRI can be accessed through the EPA's CDX. The owner/operator must use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri>). Once the spreadsheet template upload/forms for the reports have been available in CEDRI for 90 days, the owner or operator must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in this subpart, regardless of the method in which the reports are submitted. The NMOC emission rate reports, semi-annual reports should be electronically reported as a spreadsheet template upload/form to CEDRI. If the reporting forms specific to this subpart are not available in CEDRI at the time that the reports are due, the owner/operator must submit the reports to the District at the appropriate address listed in 40 CFR 63.13 of subpart A.

- (b) The owner/operator must also submit all reports electronically to the District at reporting@mdaqmd.ca.gov.
[40 CFR 63.1981(l)]
12. The owner/operator must submit a closure report to the Administrator (District) within 30 days of waste acceptance cessation. The Administrator (District) may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Administrator (District), no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 63.9(b).
[40 CFR 63.1981(f)]
- C. This facility is subject to the following requirements as required by the District, pursuant to the original permitting under New Source Review:**
1. This equipment shall be installed, operated and maintained in strict accord 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 Rule 204]
2. The owner/operator shall take the following samples;
- (a) Initial operation or following the addition of wells, for first 6 months, on a weekly schedule:
- (i) Gas composition and flow rate from each Vertical Soil Vapor Extraction (SVE) Wells
- (ii) Granular activated carbon (GAC) vessels - inlet and outlet - for total Gaseous NonMethane Organic Compounds (TGNMOC) using a photo ionization detector (PID) calibrated to hexane.
- (b) Initial operation or add additional wells for first 6 months on a monthly schedule:
- (i) Collect a sample in a Tedlar bag and analyze for TGNMOC and SCAQMD core group of Toxic Air Contaminates (TAC) compounds.
- (c) After first 6 months on a quarterly schedule:
- (i) Collect a sample in a Tedlar bag and analyze for TGNMOC and SCAQMD core group of TAC compounds.
[District Rule 204]
3. The owner/operator shall maintain a log that contain at least the following items:
- (a) Dates of measurements and analyses,
- (b) Name of operator taking the data,
- (c) All flow rates,
- (d) Sample analyses,
- (e) Inclusive of calibration gas concentrations,
- (f) Date new SVE and/or LFG wells are added or relocated, and

(g) Location and identification name of new or relocated well.
The log shall be maintained current, kept for the duration of the project and made available to District personnel on request.
[District Rule 204]

4. The owner/operator shall conduct all required compliance and certification tests in accordance with a District approved test plan. Thirty (30) days prior to the compliance certification tests the operator shall provide a written test plan for District review and approval. Written notice of the test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such tests shall be submitted to the District within forty-five (45) days after testing. All protocols, notifications, and test results must be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 204]
5. All reports, tests, results, and emissions information, shall be submitted electronically to the District at reporting@mdaqmd.ca.gov, and the California Air Resources Board (CARB) at: LMR@arb.ca.gov.
[District Rule 204]
6. 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, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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 the operation of 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 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 above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[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. ALTERNATIVE OPERATING SCENARIO(S):

The rate of landfill gas generation will continue to increase as the increasing waste mass decomposes. It is anticipated that the rate of gas generation will not exceed the estimated rate modeled using the EPA Land GEM model. However, it may be necessary to increase the extraction rate to control offsite and surface migration. In the event that a modification to the gas collection and control system is required, the owner operator shall do so in accordance with District regulation II and XII.

The conditions of these State/District level permits are listed within Part III of this Title V Permit. This facility State/District emissions cap is federally enforceable under the conditions of this Title V Permit.

Facility must comply with these already listed conditions and keep records required for a period of five (5) years from the date the data is generated, and made available to District, State or Federal personnel on request.

B. 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-will not:
 - a. Violate any Federal, State or Local requirement, including any Applicable Requirement, and the notice required under section (E)(1)(c)(ii)(c) indicates which term or condition contained in the FOP is no longer applicable; and
 - b. Be subject to any requirement under Title IV of the Federal Clean Air Act (42 U.S.C. §7651-7651o) and is not a modification under Title I of the Federal Clean Air Act (42 U.S.C. §7401-7515); and
 - c. Result in the exceedance of the emissions allowable under the permit, whether expressed therein as a rate of emissions or in terms of total emissions.
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 provide information sufficient to comply with the provisions of 40 CFR 70.4(b)(14)(ii) except for changes that qualify as insignificant pursuant to District Rule 219.
 - (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 [District Rule 1203I(1)(c)(ii)(b)]
 - b. A list of any new Applicable Requirements which would apply as a result of the change; and [District Rule 1203(E)(1)(c)(ii)(b)]
 - c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. [District Rule 1203(E)(1)(c)(ii)(b)]
3. Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [District Rule 1203(E)(1)(c)(ii)c]
 - B. Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or seven (7) days after forwarding the copy of the notice and application to USEPA whichever occurs later. [District Rule 1203(E)(1)(c)(ii)(e)]
 - 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. [District Rule 1203(E)(1)(c)(ii)(d)(2)]
 - 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 1203(E)(1)(c)(i)f]
4. 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
CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. CONVENTIONS:

The following referencing conventions are used in this federal operating permit:

- 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 SO₂ Emissions Data Protocol
- 40 CFR Part 75, Appendix F, Conversion Procedures
- 40 CFR Part 75, Appendix G, Determination of CO₂ 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:

Abbreviations used in this permit are as follows:

AB-32	Assembly Bill - California Global Warming Solutions Act
APCO	Air Pollution Control Officer
ASTM	American Society for Testing and Materials
ACP	Alternative PM10 Control Plan
CA LMR	California Landfill Methane Regulation
CARB	California Air Resources Board
CCR	California Code of Regulations
CEI	Comprehensive Emissions Inventory
CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horsepower
Br	Bromine
BSL	Barstow Sanitary Landfill

Btu	British thermal units
CEMS	Continuous Emissions Monitoring System
Cl ₂	Chlorine
CO	carbon monoxide
CO ₂carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
dscfm	dry standard cubic feet per minute
EG	Emission Guidelines
EPA	Environmental Protection Agency
FA	Flame Arrestor
FE	Flow Element
FOP	Federal Operating Program
F ₂	Fluorine
GCCS	Gas Collection and Control System
g/L	grams per liter
GHG	Greenhouse Gas
HBr	Hydrogen Bromide
HCl	Hydrogen Chloride
HF	Hydrogen Fluoride
H&S Code	Health & Safety Code
HIC	Heat Input Capacity
hp	horsepower
lb/gal	pounds per gallon
lbs/MMBtu	Pounds per Million British Thermal Units
LFG	Landfill Gas
LFGCCS	Landfill Gas Collection and Control System
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MMBtu	Million British Thermal Units
MMBtu/hr	Million British Thermal Units per hour
MVAC	Motor Vehicle Air Conditioner
MSW	Municipal Solid Waste
NESHAP	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standards
PM ₁₀	particulate matter less than 10 microns mean aerodynamic diameter
ppmv	parts per million by volume
psi	pounds per square inch
psia	pounds per square inch absolute
PUC	Public Utilities Commission
SEM	Surface Emissions Monitoring
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO ₂	Sulfur Dioxide
SWIS	Solid Waste Information System
VOCs	Volatile Organic Compounds
WIP	Waste In Place

PART VII
DISTRICT RULE SIP CITATIONS AND BASIS/AUTHORITY

Rules in the SIP for the MDAQMD

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
Cl4 SB	3	Definitions	SBC	MD 102	Bef 02/72	2/21/1972	40 CFR 52.2236(e)(4)(i)(A)	12/21/1978	43 FR 59489
Cl4 SB	5 (a)	Public Availability of Emissions Data	SBC	None	Bef 02/73	7/25/1977	40 CFR 52.220(c)(2)(iv)(A)	6/14/1978	43 FR 25684
RC	51	Nuisance	RC	MD 402, 07/25/1977 via Res 94-03	Bef 02/72	2/21/1971	40 CFR 52.220(c)(7)	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
Cl4 SB	52A	Particulate Matter - Concentration	SBC			6/19/1972	40 CFR 52.220 (c)(1-2)	9/22/1972	34 FR 19812
Cl4 SB	53A	Specific Air Contaminants	SBC			6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
RC	53	Specific Air Contaminants	RC			6/6/1977	40 CFR 52.220(c)(39)(v)(C)	9/8/1978	43 FR 40011
Cl4 SB	53.2	Sulfur Recovery Units	SBC			6/30/1972	40 CFR 52.220 (c)(1-2)	9/22/1972	34 FR 19812
Cl4 SB	53.3	Sulfuric Acid Units	SBC			6/30/1972	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	6/30/1972	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 4011
Cl4 SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknown	6/30/1972	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	56	Scavenger Plants	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(v)(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
Cl4 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
Cl4 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
Cl4 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
Cl4 SB	69	Vacuum Producing Devices or Systems	SBC	Fed Neg Dec 12/21/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
Cl4 SB	70	Asphalt Air Blowing	SBC	Fed Neg Dec 10/26/1994	Bef 02/72	2/21/1972	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	11/19/1979	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	6/6/1977	40 CFR 52.220(c)(39)(v)(C)	9/8/1978	43 FR 4001
Cl4 SB	73	Dry Sandblasting	SBC	None	Bef 02/72	4/10/1972	40 CFR 52.220(c)(27)(v)	6/14/1978	43 FR 25684
RC	74	Vacuum Producing Devices or Systems	RC	Fed Neg Dec 12/21/1994	Bef 06/72	6/30/1972	40 CFR 52.269(b)(3)(u)(A)		
SC	101	Title	RC	7/1/1993 via Res 94-03	Bef 11/77	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	101	Title	SBC	7/1/1993	12/19/1998	3/26/1990	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	55 FR 49281
MD	102	Definition of Terms	MD			8/17/2018	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)	3/10/2021			
MD	103	Definition of District Boundaries	MD	6/28/1995	Current	8/10/1995	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	1/14/1977	40 CFR 52.236(e)(3)(i)	1/16/1981	46 FR 3883
SC	104	Reporting of Source Data Analysis	RC			8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	104	Reporting of Source Data Analysis	SB	12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(6)		
SC	106	Increments of Progress	RC			8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	106	Increments of Progress	SB	12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(6)	11/27/1990	55 FR 49281
MD	107	Certification and Emissions Statements	MD	9/14/1992	Current	11/12/1992	40 CFR 52.220(c)(190)(f)(1)	5/26/2004	69 FR 29880
SC	107	Determination of Volatile Organic Compounds in Coating Material	RC		Bef 3/1/82	3/1/1982	40 CFR 52.220(c)(121)(i)(v)(B)	10/1/1981	48 FR 46046
SC	108	Alternate Emission Control Plans	RC	None	4/6/1990	12/3/1990	40 CFR 52.220(c)(182)(u)(A)(3)	8/30/1993	58 FR 45445
SC	109	Record Keeping for Volatile Organic Compound Emissions	RC	None	Bef 09/92	9/14/1992	40 CFR 52.220(c)(189)(u)(A)(6)	4/13/1995	60 FR 18751
SB	201	Permit to Construct	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	201	Permit to Construct	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	202	Temporary Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	202	Temporary Permit to Operate	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	203	Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	203	Permit to Operate	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	204	Permit Conditions	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	204	Permit Conditions	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	205	Cancellation of Application	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	205	Cancellation of Application	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	206	Posting of Permit to Operate	SBC	7/25/1977	G-73	7/25/1977	G-73		
SC	206	Posting of Permit to Operate	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	207	Altering or Falsifying of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	207	Altering or Falsifying of Permit	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	208	Permit for Open Burning	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	208	Permit for Open Burning	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	209	Transfer and Voiding of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	209	Transfer and Voiding of Permit	RC	7/25/1977 via Res 94-03	G-73	8/1/1980	FR Test	6/9/1982	47 FR 25013
SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	212	Standards for Approving Permits	RC	7/25/1977 via Res 94-03	G-73	6/9/1981	40 CFR 52.220(c)(175)(u)(A)(1)	2/3/1989	54 FR 5448
SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SB	217	Provision for Sampling and Testing Facilities	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(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	8/1/1980	FR Test	6/9/1982	47 FR 25013

Rules in the SIP for the MDAQMD

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SO	218	Stack Monitoring	SB-C	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	218	Stack Monitoring	RC	7/25/1977 via Res. 94-03	Ref 10/81	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SB	219	Equipment Not Requiring a Written Permit	SB-C	1/28/2019	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	11/9/1978	43 FR 52237
SC	219	Equipment Not Requiring a Written Permit Pursuant to Regulation II	RC	1/28/2019	9/4/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD	1/25/2021	(SIP Sub)	7/23/2021		11/25/2022	87 FR 72434
SC	220	Exemption, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SC	221	Plans	RC	None	1/4/1985	11/12/1985	40 CFR 52.220(c)(165)(b)(1)	4/17/1987	52 FR 12522
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	2/21/1994	3/31/1995	40 CFR 52.220(c)(216)(A)(2)	2/5/1996	61 FR 4217
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	(SIP Sub)	6/21/2011			
MD	222	Limitation on Potential to Emit	MD	2/28/2011	7/31/1995	10/13/1995	40 CFR 52.220(c)(225)(h)(1)	8/31/2004	69 FR 53005
MD	222	Limitation on Potential to Emit	MD	2/28/2011	(SIP Sub)	6/21/2011			
SC	301.2	Fee Schedules	RC	None	6/3/1983	7/19/1983	40 CFR 52.220(c)(137)(vi)(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	2/28/2011	(SIP Sub)	6/21/2011			
MD	315.2	Federal Clean Air Act Section 185 Penalty (2008 Standard)	MD	2/28/2011	(SIP Sub)	6/21/2011			
SC	401	Visible Emissions	RC	8/24/2019	4/7/1989	3/26/1990	40 CFR 52.220(c)(155)(v)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/24/2019	(SIP Sub)				
SB	403	Fugitive Dust	SB-C		G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	9/8/1978	43 FR 40011
SC	403	Fugitive Dust	RC			8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	403	Fugitive Dust	MD	9/28/2020		Hold			
MD	403.1	Respirable Particulate Matter in SVPA	MD		11/25/1996	3/31/1997	40 CFR 52.220(c)(224)(c)(2)	8/13/2009	74 FR 40750
SB	404	Particulate Matter, Concentration	SB	7/25/1977 via Res. 94-03	7/25/1977	11/4/1977	40 CFR 52.220(c)(42)(viii)(A)	12/21/1978	43 FR 52482
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	2/3/1983	40 CFR 52.220(c)(137)(vi)(B)	10/19/1984	49 FR 41028
MD	404	Particulate Matter - Concentration	MD		(SIP Sub)				
SB	405	Solid Particulate Matter, Weight	SB	7/25/1977 via Res. 94-03	7/25/1977	11/4/1977	40 CFR 52.220(c)(42)(viii)(A)	12/21/1978	43 FR 59489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res. 94-03	5/7/1976	8/11/1980	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	SB-C	2/20/1979	7/25/1977	11/4/1977	40 CFR 52.220(c)(42)(viii)(A)	12/21/1978	43 FR 59489
MD	406	Specific Contaminants	MD	3/28/2022	(SIP Sub)	9/23/2022			
SB	407	Liquid and Gaseous Air Contaminants	SB-C	7/25/1977 via Res. 94-03	7/25/1977	6/6/1977	40 CFR 52.220(c)(39)(u)(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	8/6/1982	40 CFR 52.220(c)(124)(v)(A)	11/10/1982	47 FR 50864
MD	407	Liquid and Gaseous Air Contaminants	MD	3/28/2022	(SIP Sub)	9/23/2022			
SB	408	Circumvention	SB-C	7/25/1977 via Res. 94-03	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	408	Circumvention	MD	4/25/2022	(SIP Sub)				
SB	409	Combustion Contaminants	SB-C	7/25/1977 via Res. 94-03	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(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 via Res. 94-03	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	9/8/1978	43 FR 40011
MD	431	Sulfur Content of Fuels	MD	9/28/2020	(SIP Sub)	6/10/2021			
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431	5/6/1983	7/19/1983	40 CFR 52.220(c)(137)(vi)(B)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Ref 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of Solid Fuels	RC	See MD 431	Ref 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	432	Gasoline Specifications	SB-C	7/25/1977 via Res. 94-03	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(B)	9/8/1978	43 FR 40011
SC	432	Gasoline Specifications	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	432	Gasoline Specifications	MD	4/25/2022	(SIP Sub)	9/23/2022			
MD	442	Usage of Solvents	MD	2/27/2006	Current	10/5/2006	40 CFR 52.220(c)(347)(c)(1)	9/17/2007	72 FR 52791
SB	443	Labeling of Solvents	SB	7/25/1977 via Res. 94-03	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	443	Labeling of Solvents	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	444	Open Fires	MD	9/25/2006	Current	5/8/2007	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
MD	461	Gasoline Transfer and Dispensing	MD			7/13/1994	40 CFR 52.220(c)(198)(h)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(A)(3)	5/1/2020	85 FR 25293
MD	462	Organic Liquid Loading	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(A)(4)	5/1/2020	85 FR 25293
MD	463	Storage of Organic Liquids	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(A)(5)	5/1/2020	85 FR 25293
MD	464	Oil Water Separators	MD	6/12/2014	Current	11/6/2014	40 CFR 52.220(c)(457)(b)(1)	6/5/2015	80 FR 32026
SC	465	Vacuum Producing Devices or Systems	RC	Rescinded & Fed. Neg. Dec 12/21/1994	Ref 5/91	5/13/1991	40 CFR 52.220(c)(184)(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	12/29/1994	40 CFR 52.222(a)(1)(ii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Ref 12/83	12/2/1983	40 CFR 52.220(c)(166)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	11/30/1994	40 CFR 52.220(c)(39)(u)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None	5/2/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013

Rules in the SIP for the MDAQMD

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03	G-73	8/1/1980	FR Text	6/9/1982	47 FR 25013
MD	468	Sulfur Recovery Units	MD	8/22/2022	(SIP Sub)	11/22/2022			
SB	469	Sulfuric Acid Units	SB	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res. 94-03	G-73	8/1/1980	FR Text	6/9/1982	47 FR 25013
MD	469	Sulfuric Acid Units	MD	8/22/2022	(SIP Sub)	11/22/2022			
SC	470	Asphalt Air Blowing	RC	N/A	G-73	8/1/1980	FR Text	6/9/1982	47 FR 25013
MD	471	Asphalt Roofing Operations		12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(210)(6)(C)(2)	2/29/1996	61 FR 7706
SB	472	Reduction of Animal Matter	SBC	7/21/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(u)(C)	9/8/1978	43 FR 40011
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res. 94-03	G-73	8/1/1980	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	6/6/1977	40 CFR 52.220(c)(39)(u)(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	3/10/1998	40 CFR 52.220(c)(254)(6)(H)(1)	1/11/1999	64 FR 1517
MD	475	Electric Power Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(6)(H)(1)	1/11/1999	64 FR 1517
MD	476	Steam Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(6)(H)(1)	1/11/1999	64 FR 1517
SB	480	Natural Gas Fired Control Devices	SBC	2/20/1979	Current	5/23/1979	40 CFR 52.220(c)(51)(m)(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		1113, 1114, 1115 & 1116	5/5/1978	8/1/1980	FR Text	6/9/1982	47 FR 25013
SC	501	General	RC	6/10/2019	Ref 8/80	8/1/1980	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	8/1/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(6)(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	11/30/1994	40 CFR 52.220(c)(207)(6)(D)	9/27/1995	60 FR 49772
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None	12/7/1990	5/31/1991	40 CFR 52.220(c)(184)(6)(B)(1)	3/24/1992	57 FR 10136
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None	4/6/1980	4/23/1980	40 CFR 52.220(c)(69)(u)	7/8/1982	47 FR 29668
MD	1103	Outback and Emulsified Asphalt	MD	12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(207)(6)(C)(1)	2/5/1996	61 FR 4215
SC	1104	Wood Flat Stock Coating Operations (SC Amended 8/2/91)	RC	None	3/1/1991	10/25/1991	40 CFR 52.220(c)(186)(6)(C)(1)	6/23/1994	59 FR 32354
MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(6)(A)(1)	7/2/2019	84 FR 31682
SC	1105	Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84)	RC	None	9/8/1984	2/6/1985	40 CFR 52.220(c)(159)(v)(C)	7/12/1990	55 FR 28625
MD	1106	Marine and Pleasure Craft Coating Operations	MD	10/24/2016	Current	Alt 10/2016	40 CFR 52.220(c)(498)(6)(B)(1)	2/12/2018	83 FR 5940
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations	RC	None	9/6/1991	5/13/1993	40 CFR 52.220(c)(193)(6)(A)(1)	12/20/1993	58 FR 66285
SC	1108	Outback Asphalt	RC	None	2/1/1983				
SC	1108.1	Emulsified Asphalt	RC	None	Ref 3/84	3/1/1984	40 CFR 52.220(c)(153)(vi)(A)	1/24/1985	50 FR 3339
SC	1110	Emissions from Stationary Internal Combustion Engines	RC	None	Ref 3/82	3/1/1982	40 CFR 52.220(c)(121)(6)(C)	5/3/1984	47 FR 18822
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None	Ref 10/83	10/27/1983	40 CFR 52.220(c)(148)(vi)(A)	5/3/1984	49 FR 18830
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None	1/6/1984	4/12/1984	40 CFR 52.220(c)(154)(vi)(B)	1/17/1986	51 FR 600
SC	1113	Architectural Coatings	RC	None	Ref 7/84	7/10/1984	40 CFR 52.220(c)(155)(v)(A)	1/24/1985	50 FR 3339
MD	1113	Architectural Coatings	MD	4/23/2012	4/23/2012	2/6/2013	40 CFR 52.220(c)(428)(6)(C)(1)	1/3/2014	79 FR 365
MD	1113	Architectural Coatings	MD	10/26/2020	(SIP Sub)	6/10/2021			
MD	1114	Wood Products Coating Operations	MD	8/24/2020	Current	11/18/2020	40 CFR 52.220(c)(558)(6)(a)(1)	7/28/2021	86 FR 40335
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None	3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(6)(A)(1)	12/20/1993	58 FR 66282
MD	1115	Metal Parts & Products Coating Operations	MD	6/8/2020	Current	7/24/2020	40 CFR 52.220(c)(571)(6)(A)(1)	5/9/2022	87 FR 27526
MD	1116	Automotive Refinishing Operations	MD	8/23/2010	Current	4/5/2011	40 CFR 52.220(c)(388)(6)(F)(1)	8/19/2012	77 FR 47536
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None	SC 1/6/1984	12/3/1984	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
MD	1117	Graphic Arts	MD			7/20/2010	40 CFR 52.220(c)(381)(6)(H)(1)	3/1/2012	77 FR 12495
MD	1117	Graphic Arts	MD	8/24/2020	(SIP Sub)	11/17/2020			
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD			4/21/2016	40 CFR 52.220(c)(485)(6)(B)(1)	6/21/2017	82 FR 28240
MD	1118	Aerospace Assembly, Repack and Component Manufacturing Operations	MD	6/8/2020	(SIP Sub)	11/17/2020			
SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None	3/2/1979	7/25/1980	40 CFR 52.220(c)(88)(u)(A)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None	8/4/1978	7/25/1980	40 CFR 52.220(c)(65)(u)	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	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1122	Solvent Metal Cleaners (Degreasers)	RC	None	7/8/1983	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	10/31/1984	49 FR 39057
SC	1123	Refinery Process Turnaround	RC	None	SC 12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(6)(B)(2)	8/11/1992	57 FR 35758
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None	1/6/1984	4/13/1984	40 CFR 52.220(c)(154)(vi)(A)	1/24/1985	50 FR 3339
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None	SC 8/2/1991	5/13/1993	40 CFR 52.220(c)(189)(6)(A)(4)	4/14/1994	59 FR 17898
SC	1126	Magnet Wire Coating Operations	RC	None	SC 3/6/1992	3/6/1992		12/20/1993	58 FR 66286
MD	1126	Municipal Solid Waste Landfills	MD	8/28/2000	Not SIP	12/20/2000	40 CFR 60.23		
SC	1128	Paper, Fabric and Film Coating Operations	RC	None		9/14/1992	40 CFR 52.220(c)(189)(6)(A)(3)	12/20/1993	58 FR 66287
SC	1130	Graphic Arts	RC	None	Ref 5/1993	5/13/1993			

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SC	1136	Wood Furniture and Cabinet Coatings	RC	None	Bef 5/92	5/13/1992	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17698
SC	1140	Abrasive Blasting	RC	None	2/1/1980	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None	SC 4/3/1992	9/19/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66286
SC	1141.1	Coatings and Ink Manufacturing	RC	None	1/14/1983	3/14/1984	40 CFR 52.220(c)(153)(vi)(B)	1/24/1985	50 FR 3339
SC	1141.3	Surfactant Manufacturing	RC	None	SC 7/6/1984	10/19/1984	40 CFR 52.220(c)(156)(vi)(A)	1/15/1987	52 FR 1627
SC	1142	Marine Tank Vessel Operations	RC	None		1/28/1992	40 CFR 52.220(c)(187)(i)(C)(1)		
SC	1145	Plastic, Rubber and Glass Coatings	RC	None	SC 1/10/1992	1/11/1993	40 CFR 52.220(c)(191)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1148	Thermally Enhanced Oil Recovery Wells	RC	None	Bef 10/1983	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	??	??
SC	1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations	RC	None	Bef 5/13/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1153	Commercial Bakery Ovens	RC	None	SC 1/4/1991	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(3)	9/29/1993	58 FR 50850
MD	1157	Boilers and Process Heaters	MD	1/23/2018	5/19/1997	8/1/1997	40 CFR 52.220(c)(248)(i)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/23/2018	(SIP Sub)	5/23/2018			
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None	SC Bef 5/93	3/14/1994	40 CFR 52.220(c)(153)(vi)(B)	1/15/1987	52 FR 1627
MD	1158	Electric Power Generating Facilities	MD	8/25/1997	8/25/1997	3/10/1998	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	Withdrawn	11/13/2017			
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None	SC 12/6/1985	2/10/1986	40 CFR 52.220(c)(168)(D)(B)	7/12/1990	55 FR 28622
MD	1159	Stationary Gas Turbines	MD	9/28/2009	Current	5/17/2010	40 CFR 52.220(c)(379)(i)(E)(1)	10/25/2012	77 FR 65133
MD	1160	Internal Combustion Engines	MD	1/23/2018	1/23/2018	5/28/2018	40 CFR 52.220(c)(518)(i)(A)(7)	9/10/2021	86 FR 50643
MD	1160	Internal Combustion Engines	MD	1/23/2023	(SIP Sub)				
MD	1161	Portland Cement Kilns	MD	1/23/2018	3/25/2002	6/18/2002	40 CFR 52.220(c)(300)(i)(A)(1)	2/27/2003	68 FR 9015
MD	1161	Portland Cement Kilns	MD	1/23/2018	(SIP Sub)	5/23/2018		7/15/2022	87 FR 42422
MD	1162	Polyester Resin Operations	MD	1/23/2018	8/27/2007	3/7/2008	40 CFR 52.220(c)(354)(i)(B)(1)	11/24/2008	73 FR 70883
MD	1162	Polyester Resin Operations	MD	1/23/2018	Current	5/23/2018	40 CFR 52.220(c)(519)(i)(A)(1)	2/27/2020	85 FR 11812
SC	1164	Semiconductor Manufacturing Operations	RC	None	Bef 10/1993			10/26/1993	58 FR 48459
MD	1165	Glass Melting Furnaces	MD	8/12/2008	Current	12/23/2008	40 CFR 52.220(c)(364)(i)(D)(1)	7/2/2012	77 FR 39181
MD	1168	Adhesive and Sealant Applications	MD	4/27/2020	(SIP Sub)	7/23/2020			
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	6/19/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR 66285
SC	1173	Fugitive Emissions of Volatile Organic Compounds	RC	None	12/7/1990	6/18/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR 66285
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC	None	SC Bef 5/91	??			
SC	1176	Sumps and Wastewater Separators	RC	None	Bef 12/1990	12/31/1990	40 CFR 52.220(c)(182)(i)(A)(1)	10/26/1992	57 FR 48459
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 Operating Permits (Federal Operating Permit)	MD	2/28/2011					
MD	1300	General	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1300	General	MD	3/22/2021	(SIP Sub)	7/23/2021		11/25/2022	87 FR 72434
MD	1301	Definitions	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD	3/22/2021	(SIP Sub)	7/23/2021		11/25/2022	87 FR 72434
MD	1302	Procedure	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure	MD	3/22/2021	(SIP Sub)	7/23/2021		11/25/2022	87 FR 72434
MD	1303	Requirements	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD	3/22/2021	(SIP Sub)	7/23/2021			
MD	1304	Emissions Calculations	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1304	Emissions Calculations	MD	3/22/2021	(SIP Sub)	7/23/2021			
MD	1305	Emissions Offsets	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD	3/22/2021	(SIP Sub)	7/23/2021			
MD	1306	Electric Energy Generating Facilities	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities	MD	3/22/2021	(SIP Sub)	7/23/2021		11/25/2022	87 FR 72434
MD	1310	Federal Major Facilities and Federal Major Modifications	MD	Rescinded 3/22/21	(SIP Sub)	7/23/2021			
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1401	Definitions (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1402	Emission Reduction Credits Registry	MD		6/28/1995	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215

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MD	1403	Emission Reduction Credit Registry	MD	5/19/1997	(SIP Sub)	8/1/1997		11/25/2022	87 FR 72434	
MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(e)(2)(4)(6)(C)	1/22/1997	62 FR 3215	
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)	7/22/2021				
MD	2001	Transportation Conformity	MD	2/22/1995	??					
MD	2002	General Federal Actions Conformity	MD	10/24/1994	Current	5/10/1996	40 CFR 52.220(c)(2)(3)(6)(C)(1)	4/23/1999	64 FR 19916	
MD	FND	Fed. Neg. Dec. - Asphalt Air Blowing	MD		Current	12/20/1994	40 CFR 52.222(a)(1)(6)	9/11/1995	60 FR 47074	
MD	FND	Fed. Neg. Dec. - Air Oxidation Process - SOCMI	MD		1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	RC	5/25/1994 via Res. 94-03	Unknown					
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	12/29/1994		1/31/1995	60 FR 38	
MD	FND	Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants	MD		1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment	MD		8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Industrial Wastewater	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474	
MD	FND	Fed. Neg. Dec. - Large Petroleum Dry Cleaners	MD		1/22/2007	Current	7/11/2007	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	7/11/2007	40 CFR 52.222(a)(1)(v)	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	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res. 94-03	Unknown					
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	SBC		Current	7/13/1994	40 CFR 52.222(a)(1)(6)	1/31/1995	60 FR 38	
MD	FND	Fed. Neg. Dec. - Offset Lithography	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474	
MD	FND	Fed. Neg. Dec. - Orchard & Citrus Heaters	MD		6/24/1996	??				
MD	FND	Fed. Neg. Dec. - Petroleum Refinery Equipment	MD		8/23/2010	Current	10/22/2010	5/20/2011	76 FR 29153	
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474	
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (other)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474	
MD	FND	Fed. Neg. Dec. - Pneumatic Rubber Tire Manufacturing	MD		Current	7/11/2007	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	7/11/2007	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	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153