



FEDERAL OPERATING PERMIT

Permit No.: 102103122

Company: County of SB 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

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: County of San Bernardino Solid Waste Management Division

Owner Mailing Address: County of San Bernardino Solid Waste Management Division
222 W. Hospitality Lane, 2nd Floor
San Bernardino, California 92415-0017

Facility Name: Barstow Sanitary Landfill (BSL)
Facility Location: 32553 Barstow Road
Barstow, California 92311

MDAQMD Federal Operating Permit Number: 102103122

MDAQMD Company Number: 1021

MDAQMD Facility Number: 03122

Responsible Official: March Rodabaugh P.E.
Phone Number: 909-386-9017

Facility "Site" Contacts: March Rodabaugh P.E.
Phone Number: 909-386-9017
Fax Number: 909-386-8964

Nature of Business: Sanitary Landfill

SIC Code: 9511 – Sanitary Landfill

NAICS: 562212 - Solid waste landfills, nonhazardous

Facility Location: UTM (Km) 498.37889E/3854.87533N

Lat/Long: 34.83617°/ -117.01773°

B. DESCRIPTION OF FACILITY:

The primary function of BSL is the disposal of municipal solid waste (MSW). The landfill has been in operation since 1963 and has an anticipated closure date of 2017. The facility is located at 32553 Barstow Road in Barstow, California. The waste in place at closure is anticipated to be 2,266, 273 short tons (2,060,249 Mega Grams). Maximum County Permitted throughput is 1,500 Tons/day, remaining capacity as of December 31, 2014 is 71,481,660 Cubic Yards. The facilities Maximum Permitted Capacity is 80,354,500 Cubic Yards. Total area is 645 Acres with a Disposal Area of 331 Acres. The facility is Permitted to accept Agricultural, Construction/Demolition, Industrial, Mixed municipal, and, Sludge (BioSolids) waste types. It is owned and operated by The County of San Bernardino.

Note: The Landfill is no longer subject to 40 CFR 60 Subpart WWW as this regulation is replaced by New Source Performance Standard (NSPS) 40 CFR 60 Subpart Cf. Deficiencies in California's "PLAN" (California's Landfill Methane Regulation (LMR) pursuant to AB 32) have been identified by the USEPA and incorporated as additional requirements, which include specific portions of Subpart Cf not covered by the LMR.

In March 2009, Solid Waste Management District (SWMD) installed eight (8) new perimeter gas migration monitoring probes (BSTW-07 through BSTW-14) around the permitted landfill boundary in compliance with the State of California Title 27 regulations. This regulation mandates the installation of perimeter monitoring probes at a spacing of no more than 1,000 feet and to the maximum depth of the current and future landfill.

After installation of these probes, SWMD had experienced exceedances of the regulatory threshold of 5% by volume methane at the landfill boundary within the newly installed probes BSTW-09, 10, and 11. SWMD was notified by the State that these probes are out of compliance and must be mitigated within 90 days of issuance of the notice. The Gas Collection and Control System were installed in response to the California Title 27 regulation.

Landfill Gas Extraction System; Landfill Gas is extracted via a piping system including vertical wells installed into the waste and surrounding soil and a header system connecting those wells to a treatment facility. The treatment facility includes two blowers, a condensate knockout vessel, and a flame arrestor permitted under valid District Permit C010719 as described below. Uncollected gas is assumed to vent through the landfill surface.

Equipment permitted under valid District Permit C010719:

Capacity	Equipment Description
0	Vertical Extraction Wells - 76 divided between the following:
0	Soil Vapor Extraction (SVE) Well
0	Landfill Gas (LFG) Well
0	Manual Condensate Tanks - 2 each
0	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.
0	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.
25	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.
0	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.
0	Potassium Permanganate (KMN) Vessels V-3A/B: Manufactured by: Tetra Solv, Model VFV-1000, KMN 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. 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*]

14. 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*]
15. 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.
[District Rule 403 - *Fugitive Dust*]
16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an “Alternative PM₁₀ Control Plan” (ACP) pursuant to Rule 403.2(G) has been approved.
[District Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area*]
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]

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 and which utilize volatile organic solvents. These requirements are listed as follows:
VOC Content:

- (a) An Owner/Operator shall not use a solvent with a VOC content that exceeds 25 grams of VOC per liter, as applied, for cleaning or surface preparation in any operation subject to this Rule.
- (b) As an alternative to, or in lieu of, the above VOC limits, an Owner/Operator may use cleaning materials with a VOC composite vapor pressure limit of 8 millimeters of mercury (mm Hg) or less at 20 degrees Celsius.

Control Equipment:

- (a) Owner/Operator may comply with the VOC limits above by using approved air pollution control equipment provided that the VOC emissions from such operations and/or materials are reduced in accordance with the following:
 - (i) The control equipment shall reduce emissions from an emission collection system by at least 95 percent (95%), by weight, or by reducing the output of the air pollution control equipment to less than 25 ppm calculated for carbon with no dilution; and
 - (ii) The Owner/Operator demonstrates that the system collects at least 90 percent (90%), by weight, of the emissions generated by the sources of emissions.

Cleaning Equipment and Method Requirements:

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

- (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 has a solvent container that can be, and is closed during cleaning operations, except when depositing and removing objects to be cleaned, and is closed during non-operation with the exception of maintenance and repair to the equipment itself;
 - (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:
 - (i) An apparatus or cover(s) which reduces solvent evaporation, except for remote reservoirs.
 - (ii) A permanent, conspicuous label summarizing the applicable operating requirements. In lieu of a label, operating instructions may be posted near the degreaser where the Operators can access the proper operating requirements of this Rule.
 - (g) Remote Reservoirs shall be equipped with the following:
 - (i) A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of solvent within the work area.
 - (ii) A single or total drain hole area, not larger than 100 square centimeters (15.5 square inches) in area, for the Solvent to flow from the sink (platform/work area) into the enclosed reservoir.
 - (iii) If high volatility solvent is used, a drain cover/plug/closure device or a cover for placement over the top of the sink (platform/work area), when the equipment is not being used, cleaned or repaired.
 - (iv) A minimum sink depth of six (6) inches, as measured from the top of the drain to the top of the side of the sink.
 - (h) Cold Solvent Degreasers - Freeboard Requirements:
 - (i) Cold solvent degreasers using only low volatility solvents which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120° F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one (1).

Cold Solvent Degreasers - Cover Requirements:

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

Cold Solvent Degreasers - Solvent Level Identification:

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

All Degreasers shall comply with the following operating requirements:

- (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
- (ii) Degreasers shall not be operating with any detectable solvent leaks.
- (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
- (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
- (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
- (vi) Solvent carry-out shall be minimized by the following methods:
 - a. Rack workload arranged to promote complete drainage.
 - b. Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
 - c. Retain the workload inside of the vapor zone until condensation ceases.
 - d. Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - e. Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
- (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
- (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
- (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless the spray is conducted in a totally enclosed space, separated from the environment.
- (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
- (xi) Wipe cleaning materials, including shop towels, containing solvent shall be

- kept in closed containers at all times, except during use.
- (xii) Cleaning operations shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
 - (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.

District Rule 442 Applicability:

Any solvent-using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of 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 Rule 1104 shall be subject to the applicable provisions of Rule 442.

Solvent Usage Records:

Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, 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;
 - b. The mix ratio of mixtures containing solvents as used;
 - c. VOC content of solvent or mixture of compounds as used;
 - 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 equipment/system as a means of complying with the provisions of Rule 1104 shall, maintain and produce daily records of key system operating parameters and maintenance procedure which will demonstrate continuous operating and compliance of the air pollution abatement during periods of emission producing activities. Key system operating parameters are those necessary to ensure compliance with subsection (C)(2)(a), such as temperatures, pressures and flow rates.
- (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 on site 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 all applicable provisions of District Rule 1168 – Adhesive and Sealant Applications, including but not limited to, the VOC limits specified below:
 (a) owner/operator shall not apply Adhesives, Adhesive Primers, Sealants, Sealant Primers, or any other Primer which have a VOC content in excess of the limits specified in Table 1 of District Rule 1168, as summarized below:

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

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

Architectural – Porous	775 (6.5)
Modified Bituminous	500 (4.2)
Other Sealant Primers	750 (6.3)
Sealants	
Architectural	250 (2.1)
Non-membrane Roof	300 (2.5)
Non-staining Plumbing Putty	150 (1.3)
Potable Water	100 (0.8)
Roadway	250 (2.1)
Single-Ply Roof Membrane	450 (3.8)
All Other Architectural Sealants	50 (0.4)
All Other Roof Sealants	300 (2.5)
All Other Sealant	420 (3.5)

31. 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]
32. 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*]
33. 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)]

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 2014 – *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)]
[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 May 1 – April 30	Due by May 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 May 1 – October 31	Due by November 30
Report covering November 1 – April 30	Due by May 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]
8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, National Emission Standard for Asbestos.
[40 CFR 61.145.b]
9. Owner/Operator shall notify the APCO/District, on an annual basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability]. [40 CFR 61.145.b]

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

A. MDAQMD PERMIT NUMBER C010719, LANDFILL GAS CONTROL SYSTEM consisting of: associated Landfill identified as SWIS (Solid Waste Information System) Number 36-AA-0046 and Classified as Active; see: <http://www.calrecycle.ca.gov/SWFacilities/Directory/36-AA-0046/Detail/>; It has a maximum permitted capacity of 80,354,500 Cubic Yards (61.435 Million cubic meters (which is Greater than 2.5 Million cubic meters); facility area of 645 acres and a disposal area of 331 acres. Landfill is permitted to receive 1,500 tons/day of Waste Type: Agricultural, Construction/demolition, Industrial, Mixed municipal, Other designated, Sludge (BioSolids).

Design Capacity of greater than 2.5 million megagrams; has a Waste in Place (WIP) and Heat Input Capacity (HIC) of > 450,000 tons and 0.54 MMBTU/hr respectively; LFG Processed in 2020 = 42,562,725 scf/yr. The 2020 HIC was last provided by Report dated March 4, 2021. Also, during four (4) consecutive quarters in 2020, San Bernardino County Solid Waste Management Division (SWMD) demonstrated that there were no surface methane emissions exceeding 200 ppmv. SWMD will continue to re-calculate the heat input capacity annually.

This Landfill is categorized as NOT Controlled pursuant to the California Landfill Methane Regulation as this GCCS utilizes Carbon Adsorption which does not control Methane Gas emissions.

Note: The Landfill is no longer subject to 40 CFR 60 Subpart WWW as this regulation is replaced by New Source Performance Standard (NSPS) 40 CFR 60 Subpart Cf. Deficiencies in California's "PLAN" (California's Landfill Methane Regulation (LMR) pursuant to AB 32) have been identified by the USEPA and incorporated as additional requirements, which include specific portions of Subpart Cf not covered by the California Methane Regulation 17 CCR Sections 95460 - 95476: <https://ww2.arb.ca.gov/sites/default/files/2020-06/landfillfinalfro.pdf>.

Landfill is also Permitted under Federal Operating Permit Number 102103122.

Facility elevation is 2959 feet above sea level.

Capacity	Equipment Description
0	Vertical Extraction Wells - 76 divided between the following:

0	Soil Vapor Extraction (SVE) Well
0	Landfill Gas (LFG) Well
0	Manual Condensate Tanks - 2 each
0	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.
0	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.
25	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.
0	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.
0	Potassium Permanganate (KMN) Vessels V-3A/B: Manufactured by: Tetra Solv, Model VFV-1000, KMN 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.

OPERATING CONDITIONS APPLICABLE TO DISTRICT PERMIT NUMBER C010719:

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

1. Gas composition and flow rate from each Vertical Soil Vapor Extraction (SVE) Wells.
2. Granular activated carbon (GAC) vessels - inlet and outlet - for total Gaseous Non-Methane 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:
 1. 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:
 1. Collect a sample in a Tedlar bag and analyze for TGNMOC and SCAQMD core group of TAC compounds.

[District Rule 1302]
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 1302]
4. The owner/operator shall submit to the District and the California Air Resources Board (CARB) semi-annual reports of the measurements of NMOC, flow rates and destruction removal efficiencies. Further the owner/operator shall submit to the District an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures as allowed by 40 CFR 62 Subpart OOO, and the LMR. (note that the APCO may approve alternate record keeping and reporting provisions).

[District Rule 1302]

5. At all times, including periods of startup, shutdown, and malfunction, the owners/operators will, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 60.11(d)]

6. The owner/operator will not erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard.

[40 CFR 60.12]

7. Annual NMOC emission rate reports prepared pursuant to 40 CFR 62 Subpart OOO shall

be submitted by March 1 of the year following the reporting period. If applicable, 5-year estimates of the NMOC emission rate shall be submitted by March 1 of the first year of the 5-year estimation period.

[40 CFR 62 Subpart OOO, and District Rule 1302]

8. The owner/operator will determine the NMOC emission rate pursuant to the test methods detailed in 62.16718, Test methods and procedures.
[40 CFR 62 Subpart OOO]
9. The owner/operator shall keep a record of the design capacity and the year to year waste acceptance rates either on-site or easily retrievable within 4 hours upon request. A plot map identifying each existing and planned collector will be kept either on-site or will be easily retrievable within 4 hours upon request.
[District Rule 1302]
10. This landfill is subject to the requirements of these Permit conditions, the California Landfill Methane Regulation, 17 CCR Sections 95460 to 95476 (<https://www.arb.ca.gov/regact/2009/landfills09/landfillfinalfro.pdf>), and applicable portions of 40 CFR 62 Subpart OOO as required for NSPS 40 CFR 60 Subpart Cf compliance. In the event of conflict, the more stringent requirements shall govern.
[District Rule 1302]
11. This facility has a design capacity that exceeds 450,000 tons of waste in place (WIP); therefore, the owner/operator must submit to the District, and CARB, an annual Landfill Gas Heat Input Capacity Report (HIC) for the period of January 1 through December 31 of each year, submitted no later than March 15th of each year. This report must be prepared using the calculations specified in 17 CCR 95471(b).
[17 CCR 95463(b)]
12. All Heat Input Capacities, tests, results, and Emissions information, including Methane Emissions, shall be submitted electronically to the MDAQMD at reporting@mdaqmd.ca.gov, and the California Air Resources Board (CARB) at: ARBLMR@arb.ca.gov.
[District Rule 1302]
13. When the annual HIC report results in a value greater than or equal to 3.0 MMBTU/hr, the owner/operator must perform instantaneous and integrated Surface Methane Emissions (SME) monitoring, pursuant to 17 CCR Section 95463(b)(2)(B) and 95471(c). The owner/operator must demonstrate to the satisfaction of the MDAQMD and CARB that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume (ppmv) or greater.

If there is any measured concentration of methane of 200 ppmv or greater from the surface the owner/operator must comply with sections 95464 through 95476.

If there is no measured concentration of methane of 200 ppmv or greater from the surface

the owner/operator must recalculate the landfill gas heat input capacity annually as required in section 95463(b).
[Title 17 CCR 95463(b)(2)(B)]

14. If a Methane GCCS must be installed, the facility must:
 - a. Meet the requirements of 17 CCR 95464, and
 - b. Prior to altering or installing equipment, obtain a District approved Authority to Construct (ATC) permit.
[17 CCR, Sections 95463(b), 95470(b)(5), and 95471(b)]

15. Since this MSW Landfills has a Carbon Adsorption Systems, 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 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 Section 95471(b)(2)]

16. The owner/operator of this Municipal Solid Waste Landfill shall comply with NESHAP 40 CFR 63 Subpart AAAA, effective September 27 2021, and shall calculate the facility's yearly NMOC mass emission rate and compare it to the 50 Mg/yr threshold. A report of this calculation and comparison shall occur in accordance with Subpart AAAA and provided to the District on an initial, and thereafter, annual basis. If the calculation indicates an emission rate greater than 50 Mg/yr, then the owner/operator shall take appropriate steps to install a Gas Collection and Control System.
[40 CFR 63 Subpart AAAA]

17. The owner/operator must keep the records as specified in 17 CCR 95470, as applicable, and provide it to District, State, or Federal personal upon request. [Derived from 17 CCR 95470]

18. 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]

- B. EQUIPMENT DESCRIPTION: Diesel Fueled Generator, 40 hp for Landfill Gas Extraction System. Manufactured by Generac Type CD025; equipment is exempt per MDAQMD Rule 219(E)(2)(a); Engine with continuous ratings of less than 50 hp as exempt.

- C. EQUIPMENT DESCRIPTION: Diesel Fueled Generator, 36 hp for Scale House Operations. Manufactured by M Power, Model DCA25SSIU; equipment is exempt per MDAQMD Rule 219(E)(2)(a); Engine with continuous ratings of less than 50 hp as exempt.

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):
- 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. S&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:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horsepower
BSL	Barstow Sanitary Landfill
Btu	British thermal units
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO ₂	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
hp	horsepower
LFG	Landfill Gas
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)

NESHAP National Emission Standards for Hazardous Air Pollutants
PM₁₀ particulate matter less than 10 microns mean aerodynamic diameter
psia pounds per square inch absolute
SIC Standard Industrial Classification
SIP State of California Implementation Plan
SO₂ sulfur dioxide

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PART VII DISTRICT RULE SIP CITATIONS AND BASIS/AUTHORITY

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite		
Old SB	2	Definitions	SBC	MD 102	Bef 02/72	2/21/1972	40 CFR 52.2236(e)(4)(i)(A)	12/21/1978	43 FR 59489		
Old SB	5 (a)	Public Availability of Emissions Data	SBC	None	Bef 02/73	7/25/1973	40 CFR 52.220(c)(21)(iv)(A)	6/14/1978	43 FR 25684		
RC	51	Nuisance	RC	MD 405, 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)(ii)(A)	9/8/1978	43 FR 40011		
RC	53	Specific Air Contaminants	RC	MD 405, 02/20/1979 via Res. 94-03	G-73	6/6/1977	40 CFR 52.240(a)(1)&(d)(1)(i)(6)	1/16/1981	46 FR 3883		
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)(ii)(A)	9/8/1978	43 FR 4011		
Old SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknowns	6/30/1972	40 CFR 52.240(a)(1)&(d)(1)(i)(6)	1/16/1981	46 FR 3883		
RC	56	Scavenger Plants	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011		
RC	58	Disposal of Solid and Liquid Wastes	RC	MD 473, 7/25/77 via Reso 04-03	Bef 06/72		40 CFR 52.228(b)(1)(ii)(A)	9/8/1978	43 FR 40011		
Old SB	58 A	Disposal of Solid and Liquid Wastes	SBC	MD 473, 07/25/77	Bef 02/72		40 CFR 52.240(a)(1) & (d)(1)(i)(6)	1/16/1981	46 FR 3883		
Old SB	62.1	Sulfur Content of Natural Gas	SBC	None but See MD 431	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)(6)	1/16/1981	46 FR 3883		
Old SB	67	Fuel Burning Equipment	SBC	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)(6)	5/18/1981	46 FR 27116		
Old 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)(6)	1/16/1981	46 FR 3886		
Old 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)(6)	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)(6)	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)(iv)(C)	9/8/1978	43 FR 4001		
Old SB	73	Dry Sandblasting	SBC	None	Bef 02/72	4/10/1975	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)(5)(ii)(A)				
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	8/11/1980	FR Test	6/9/1982	47 FR 25013		
SB	101	Title	SBC			7/1/1993	3/26/1990	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	55 FR 49281	
MD	102	Definition of Terms					8/17/2018	40 CFR 52.220(c)(520)(i)(A)(1)	7/2/2019	84 FR 31682	
MD	102	Definition of Terms					9/28/2020	(SIP Sub)			
MD	103	Definition of District Boundaries	MD				6/28/1993	Current			
SB	103	Definition of Terms (Unknown rule - no record except in FR reference)	SBC	None	Bef 11/77	11/4/1977	40 CFR 52.236(e)(3)(i)	1/16/1981	46 FR 3883		
SC	104	Reporting of Source Data Analysis	RC			8/11/1980	FR Test	6/9/1982	47 FR 25013		
MD	104	Reporting of Source Data Analysis				12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
SC	106	Increments of Progress	RC	12/19/1988 via Res. 94-03	Bef 06/78	8/11/1980	FR Test	6/9/1982	47 FR 25013		
MD	106	Increments of Progress				12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
MD	107	Certification and Emissions Statements	MD			9/14/1992	Current	11/12/1992	40 CFR 52.220(c)(190)(i)(FX1)	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)(c)(v)(B)	10/11/1983	48 FR 46046	
SC	108	Alternate Emission Control Plans	RC	None		4/6/1990	12/31/1990	40 CFR 52.220(c)(182)(c)(A)(3)	8/30/1993	58 FR 45445	
SC	109	Recordkeeping for Volatile Organic Compound Emissions	RC	None		Bef 09/92	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(6)	4/13/1995	60 FR 18751	
SB	201	Permit to Construct	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Test	6/9/1982	47 FR 25013		
SB	201	Permit to Construct	SBC			7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	202	Temporary Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	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)(ii)(B)	11/9/1978	43 FR 52237
SC	203	Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	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)(ii)(B)	11/9/1978	43 FR 52237
SC	204	Permit Conditions	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Test	6/9/1982	47 FR 25013		
MD	204	Permit Conditions	SBC			7/25/1977	G-73				
SC	205	Cancellation of Application	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	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)(ii)(B)	11/9/1978	43 FR 52237
SC	206	Posting of Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	FR Test	6/9/1982	47 FR 25013	
SB	206	Posting of Permit to Operate	SBC			7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	207	Altering or Falsifying of Permit	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	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)(ii)(B)	11/9/1978	43 FR 52237
SC	208	Permit for Open Burning	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	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)(ii)(C)	9/8/1978	43 FR 40011
SC	209	Transfer and Voiding of Permit	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	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)(ii)(B)	11/9/1978	43 FR 52237
SC	212	Standards for Approving Permits	RC	7/25/1977 via Res. 94-03	G-73		5/1/1987	6/9/1987	40 CFR 52.220(c)(173)(i)(A)(1)	2/3/1989	54 FR 5448
SB	212	Standards for Approving Permits	SBC			7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	217	Provision for Sampling and Testing Facilities	RC	7/25/1977 via Res. 94-03	G-73		8/11/1980	FR Test	6/9/1982	47 FR 25013	
SB	217	Provision for Sampling and Testing Facilities	SBC			7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	218	Stack Monitoring	RC	7/25/1977 via Res. 94-03	Bef 10/81	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231		
SO	218	Stack Monitoring	SBC			7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SB	219	Equipment Not Requiring a Written Permit	SBC			1/28/2019	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(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)(xviii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD			1/25/2021	(SIP Sub)	7/22/2021			
SC	220	Emission, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	Bef 8/7/1981	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231	

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SC	221	Plans	RC	None	1/4/1985	11/12/1985	40 CFR 52.220(c)(165)(i)(B)(1)	4/17/1987	52 FR 12522
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	2/21/1994	3/31/1995	40 CFR 52.220(c)(216)(i)(A)(2)	2/9/1996	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)(i)(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	10/24/2011	(SIP Sub)	12/14/2011			
SC	401	Visible Emissions	RC	8/26/2019	4/7/1989	3/26/1990	40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	Sip Sub				
SB	403	Fugitive Dust	SBC		G-73	6/6/1977	FR Test	6/9/1982	47 FR 25013
SC	403	Fugitive Dust				8/11/1980	40 CFR 52.220(c)(39)(i)(B)	9/8/1978	43 FR 40011
MD	403	Fugitive Dust		9/28/2020		Hold	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750
MD	403.1	Reparable Particulate Matter in SVPA			11/25/1996	3/3/1997			
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03		10/5/1979	FR Test	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03		10/5/1979	40 CFR 52.220(c)(137)(vi)(B)	10/4/1984	49 FR 41028
SB	404	Particulate Matter - Concentration	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(iii)(A)	12/21/1978	43 FR 52489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res. 94-03		5/7/1976	FR Test	6/9/1982	47 FR 25013
SB	405	Solid Particulate Matter, Weight	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(iii)(A)	12/21/1978	43 FR 52489
SB	406	Specific Contaminants	SBC	2/20/1979	7/25/1977	11/4/1977	40 CFR 52.220(c)(42)(iii)(A)	12/21/1978	43 FR 52489
SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res. 94-03		4/2/1982	40 CFR 52.220(c)(124)(iv)(A)	11/10/1982	47 FR 50864
SB	407	Liquid and Gaseous Air Contaminants	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res. 94-03		G-73	FR Test	6/9/1982	47 FR 25013
SB	408	Circumvention	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res. 94-03		8/7/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SB	409	Combustion Contaminants	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(B)	9/8/1978	43 FR 40011
MD	431	Sulfur Content of Fuels	MD	9/28/2020	(SIP Sub)	6/10/2021	40 CFR 52.220(c)(137)(vi)(B)	10/19/1984	49 FR 41028
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	FR Test	6/9/1982	47 FR 25013
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431		5/6/1983	FR Test	6/9/1982	47 FR 25013
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431		8/8/80	FR Test	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of Fossil Fuels	RC	See MD 431		8/8/80	40 CFR 52.220(c)(39)(i)(B)	9/8/1978	43 FR 40011
SC	432	Gasoline Specifications		7/25/1977 via Res. 94-03		G-73	40 CFR 52.220(c)(347)(i)(C)(1)	9/17/2007	72 FR 52791
SB	432	Gasoline Specifications	SBC	7/25/1977	G-73	6/6/1977	FR Test	6/9/1982	47 FR 25013
MD	442	Usage of Solvents	MD	2/27/2006	Current	10/5/2006	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
SC	443	Labeling of Solvents	RC	7/25/1977 via Res. 94-03		G-73	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
SB	443	Labeling of Solvents				6/6/1977	40 CFR 52.220(c)(127)(vi)(B)	5/3/1984	49 FR 18829
MD	444	Open Fires		9/25/2006	Current	5/8/2007	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD			7/13/1994			
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	Current	5/18/2018	FR Test	6/9/1982	47 FR 25013
MD	462	Organic Liquid Loading	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	463	Storage of Organic Liquids	MD	1/22/2018	Current	5/18/2018			
MD	464	Oil Water Separators		6/12/2014	Current	11/16/2014	40 CFR 52.220(c)(156)(vi)(A)	1/15/1987	52 FR 1627
SC	465	Vacuum Producing Devices or Systems	RC	Rescinded & Fed. Neg. Dec 12/21/1994		8/12/83	40 CFR 52.220(c)(191)(i)(C)	5/3/1995	60 FR 21702
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed. Neg. Dec 12/21/1994		Not SIP			
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94		8/12/83	40 CFR 52.220(c)(457)(i)(B)(1)	6/5/2015	80 FR 32026
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94		Not SIP			
SC	466.1	Valves and Flanges	RC	None		5/2/1980	40 CFR 52.222(a)(1)(vi)	9/11/1995	60 FR 47074
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03		G-73	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(G)	8/19/1999	64 FR 45175
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res. 94-03		G-73	FR Test	6/9/1982	47 FR 25013
SB	469	Sulfuric Acid Units		7/25/1977	G-73	6/6/1977	FR Test	6/9/1982	47 FR 25013
MD	471	Asphalt Roofing Operations		12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res. 94-03		G-73	FR Test	6/9/1982	47 FR 25013
SB	472	Reduction of Animal Matter	SBC	7/21/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
MD	473	Disposal of Liquid and Solid Wastes	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(210)(i)(C)(2)	2/29/1996	61 FR 7706
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997		8/25/1997	FR Test	6/9/1982	47 FR 25013
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
MD	475	Electric Power Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(39)(i)(C)	9/8/1978	43 FR 40011
MD	476	Steam Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
SB	480	Natural Gas Fired Control Devices	SBC	2/20/1979	Current	5/23/1979	??	??	??
SC	481	Spray Coating Operations	RC	1113, 1114, 1115 & 1116		5/5/1978	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
SC	501	General	RC			8/11/1980	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	900	Standards of Performance for New Stationary Sources	MD			2/25/2019	40 CFR 52.220(c)(51)(iii)(A)	1/27/1981	46 FR 8471

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MD	1000	National emissions Standards for Hazardous Air Pollutants	MD	2/25/2019	Delegated		FR Test	6/9/1982	47 FR 25013
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None		4/4/1980	FR Test	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None		12/7/1990			
MD	1102	Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations	MD	10/26/1994	Current				
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None		12/7/1990	FR Test	6/9/1982	47 FR 25013
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None		4/6/1980	40 CFR 52.220(c)(184)(v)(B)(1)	3/24/1992	57 FR 10136
MD	1103	Outback and Emulsified Asphalt	MD	12/21/1994	Current				
SC	1104	Wood Flat Stock Coating Operations (SC Amended 8/2/91)		None		3/1/1991	40 CFR 52.220(c)(184)(v)(B)(1)	3/24/1992	57 FR 10136
MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current				
SC	1105	Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84)	E/	None		9/8/1984	40 CFR 52.220(c)(207)(v)(C)(1)	2/5/1996	61 FR 4215
MD	1106	Marine & Pleasure Craft Coating Operations	MD	10/24/2016	Current	AR 10/2016	40 CFR 52.220(c)(186)(v)(C)(1)	6/23/1994	59 FR 32354
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations	RC	None		9/6/1991	40 CFR 52.220(c)(519)(v)(A)(1)	7/2/2019	84 FR 31682
SC	1108	Outback Asphalt	RC	None		2/1/1985	40 CFR 52.220(c)(159)(v)(C)	7/12/1990	55 FR 28625
SC	1108.1	Emulsified Asphalt	RC	None		Bef 3/84	40 CFR 52.220(c)(498)(v)(B)(1)	2/12/2018	83 FR 5940
SC	1110	Emissions from Stationary Internal Combustion Engines	RC	None		Bef 3/82	40 CFR 52.220(c)(193)(v)(A)(1)	12/20/1993	58 FR 66285
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None		Bef 10/83	40 CFR 52.220(c)(160)(v)(B)(1)	7/12/1990	55 FR 28624
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None		1/6/1984	40 CFR 52.220(c)(153)(v)(A)	1/24/1985	50 FR 3339
SC	1113	Architectural Coatings	RC	None		Bef 7/84	40 CFR 52.220(c)(121)(v)(C)	5/3/1984	47 FR 18822
MD	1113	Architectural Coatings	MD	10/26/2020	(SIP Sub)	6/10/2021	40 CFR 52.220(c)(148)(v)(A)	5/3/1984	49 FR 18830
MD	1114	Wood Products Coating Operations	MD	8/24/2020	Current		40 CFR 52.220(c)(154)(v)(B)	1/7/1986	51 FR 600
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None		3/6/1992	40 CFR 52.220(c)(155)(v)(A)	1/24/1985	50 FR 3339
MD	1115	Metal Parts & Products Coating Operations				5/23/2018	40 CFR 52.220(c)(428)(v)(C)(1)	1/3/2014	79 FR 365
MD	1115	Metal Parts & Products Coating Operations	MD	6/8/2020	(SIP Sub)	5/23/2018	40 CFR 52.220(c)(518)(v)(A)(1)	7/2/2019	84 FR 31682
MD	1116	Automotive Refinishing Operations	MD	8/23/2010	Current		40 CFR 52.220(c)(189)(v)(A)(1)	12/20/1993	58 FR 66282
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None		SC 1/6/1984	40 CFR 52.220(c)(518)(v)(A)(2)	2/27/2020	85 FR 11812
MD	1117	Graphic Arts	MD			7/20/2010	40 CFR 52.220(c)(388)(v)(E)(1)	8/19/2012	77 FR 47536
MD	1117	Graphic Arts	MD	8/24/2020	(SIP Sub)	11/17/2020	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD			4/21/2016	40 CFR 52.220(c)(381)(v)(H)(1)	3/1/2012	77 FR 12495
MD	1118	Aerospace Assembly, Repack and Component Manufacturing Operations	MD	6/8/2020	(SIP Sub)	11/17/2020	40 CFR 52.220(c)(485)(v)(B)(1)	6/21/2017	82 FR 28240
SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None		3/2/1979	40 CFR 52.220(c)(88)(v)(A)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None		8/4/1980	40 CFR 52.220(c)(65)(v)	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	40 CFR 52.220(c)(67)(v)(B)	9/28/1981	46 FR 47451
SC	1122	Solvent Metal Cleaners (Degreasers)	RC	None		7/8/1983	40 CFR 52.220(c)(148)(v)(B)	10/3/1984	49 FR 39057
SC	1123	Refinery Process Turnaround	RC	None		SC 12/7/1990	40 CFR 52.220(c)(184)(v)(B)(2)	8/11/1992	57 FR 35758
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None		1/6/1984	40 CFR 52.220(c)(154)(v)(A)	1/24/1985	50 FR 3339
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None		SC 8/2/1991	40 CFR 52.220(c)(189)(v)(A)(4)	4/14/1994	59 FR 17898
SC	1126	Magnet Wire Coating Operations	RC	None		SC 3/6/1992	40 CFR 52.220(c)(189)(v)(A)(2)	12/20/1993	58 FR 66286
MD	1126	Municipal Solid Waste Landfills	MD	8/28/2000	Not SIP	12/20/200	40 CFR 60.23		
SC	1128	Paper, Fabric and Film Coating Operations	RC	None		SC 2/7/1992	40 CFR 52.220(c)(189)(v)(A)(3)	12/20/1993	58 FR 66287
SC	1130	Graphic Arts	RC	None		Bef 5/1993	40 CFR 52.220(c)(193)(v)(A)(2)	4/14/1994	59 FR 17698
SC	1136	Wood Furniture and Cabinet Coatings	RC	None		Bef 5/92	40 CFR 52.220(c)(189)(v)(A)(4)	4/14/1994	59 FR 17698
SC	1140	Abrasive Blasting	RC	None		2/1/1980	40 CFR 52.220(c)(67)(v)(B)	9/28/1981	46 FR 47451
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None		SC 4/3/1992	40 CFR 52.220(c)(189)(v)(A)(3)	12/20/1993	58 FR 66286
SC	1141.1	Coatings and Ink Manufacturing	RC	None		11/4/1983	40 CFR 52.220(c)(153)(v)(B)	1/24/1985	50 FR 3339
SC	1141.2	Surfactant Manufacturing	RC	None		SC 7/6/1984	40 CFR 52.220(c)(156)(v)(A)	1/15/1987	52 FR 1627
SC	1142	Marine Tank Vessel Operations	RC	None		1/28/1992	40 CFR 52.220(c)(187)(v)(C)(1)		
SC	1145	Plastic, Rubber and Glass Coatings	RC	None		SC 1/10/1992	40 CFR 52.220(c)(191)(v)(A)(1)	12/20/1993	58 FR 66286
SC	1148	Thermally Enhanced Oil Recovery Wells	RC	None		Bef 10/1983	40 CFR 52.220(c)(148)(v)(B)	??	??
SC	1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations	RC	None		Bef 5/13/1993	40 CFR 52.220(c)(193)(v)(A)(1)	12/20/1993	58 FR 66286
SC	1153	Commercial Bakery Ovens	RC	None		SC 1/4/1991	40 CFR 52.220(c)(184)(v)(B)(3)	9/29/1993	58 FR 30850
MD	1157	Boilers and Process Heaters	MD	1/22/2018		5/19/1997	40 CFR 52.220(c)(248)(v)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/22/2018	(SIP Sub)				
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None		SC Bef 5/93	40 CFR 52.220(c)(153)(v)(B)	1/15/1987	52 FR 1627
MD	1158	Electric Power Generating Facilities	MD	6/26/2017		8/25/1997	40 CFR 52.220(c)(254)(v)(H)(2)	7/20/1999	64 FR 38832
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	(SIP Sub)				
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None		SC 12/6/1985	40 CFR 52.220(c)(168)(v)(D)(1)	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)(v)(E)(1)	10/25/2012	77 FR 65133
MD	1160	Internal Combustion Engines	MD	1/22/2018		10/26/1994	40 CFR 52.220(c)(207)(v)(D)(3)	11/1/1996	61 FR 56470
MD	1160	Internal Combustion Engines	MD	1/22/2018	(SIP Sub)				
MD	1161	Portland Cement Kilns	MD	1/22/2018		3/25/2002	40 CFR 52.220(c)(300)(v)(A)(1)	2/27/2003	68 FR 9015
MD	1161	Portland Cement Kilns	MD	1/22/2018	(SIP Sub)				
MD	1162	Polyester Resin Operations	MD	1/22/2018		8/27/2007	40 CFR 52.220(c)(354)(v)(B)(1)	11/24/2008	73 FR 70883

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MD	1142	Polyester Resin Operations	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(519)(X)(A)(1)	2/27/2020	85 FR 11812
SC	1164	Semiconductor Manufacturing Operations	RC	None	Ref 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)(X)(D)(1)	7/2/2012	77 FR 39181
MD	1168	Adhesive & Sealant Applications	MD	4/27/2020	(SIP Sub)	7/23/2020	40 CFR 52.220(c)(185)(X)(C)(1)	12/20/1993	58 FR 66285
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	6/19/1992	40 CFR 52.220(c)(185)(X)(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)(182)(X)(A)(1)	??	??
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC	None	SC Ref 5/91	??	40 CFR 52.220(c)(182)(X)(A)(1)	10/26/1992	57 FR 48459
SC	1176	Sumps and Wastewater Separators	RC	None	Ref 12/1990	12/31/1990			
MD	1200	General (Federal Operating Permit)	MD	2/28/2011					
MD	1201	Definitions (Federal Operating Permit)	MD	9/26/2005					
MD	1202	Applications	MD	9/26/2005					
MD	1203	Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1205	Modifications of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1206	Reopening, Reissuance and Termination of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1207	Notice and Comment (Federal Operating Permit)	MD	9/26/2005					
MD	1208	Certification (Federal Operating Permit)	MD	9/26/2005					
MD	1209	Appeals (Federal Operating Permit)	MD	9/26/2005					
MD	1210	Acid Rain Provisions of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1211	Greenhouse Gas Provisions of Federal Operating Permits (Federal Operating Permit)	MD	2/28/2011			40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1300	General	MD		3/25/1996	7/23/1996			
MD	1300	General	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD		3/25/1996	7/23/1996			
MD	1301	Definitions	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure	MD		3/25/1996	7/23/1996			
MD	1302	Procedure	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD		3/25/1996	7/23/1996			
MD	1303	Requirements	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1304	Emissions Calculations	MD		3/25/1996	7/23/1996			
MD	1303	Emissions Calculations	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD		3/25/1996	7/23/1996			
MD	1305	Emissions Offsets	MD	3/22/2021	(SIP Sub)	7/23/2021	40 CFR 52.220(c)(239)(X)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities			3/25/1996	7/23/1996			
MD	1306	Electric Energy Generating Facilities		3/22/2021	(SIP Sub)	7/23/2021			
MD	1310	Federal Major Facilities and Federal Major Modifications		Rescinded 3/2/21					
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(X)(C)	1/23/1997	62 FR 3215
MD	1401	Definitions (Emissions Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(X)(C)	1/23/1997	62 FR 3215
MD	1402	Emission Reduction Credits Registry	MD		6/28/1995	8/10/1995	40 CFR 52.220(c)(224)(X)(C)	1/23/1997	62 FR 3215
MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current	8/10/1995			
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)	7/23/2021			
MD	2001	Transportation Conformity	MD	2/22/1995	??		40 CFR 52.220(c)(231)(X)(C)(1)	4/23/1999	64 FR 19916
MD	2002	General Federal Actions Conformity	MD	10/26/1994	Current	5/10/1996	40 CFR 52.222(a)(1)(a)	9/11/1995	60 FR 47074
MD	FND	Fed Neg Dec - Asphalt Air Blowing	MD		Current	12/20/1994	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg Dec - Air Oxidation Process - SOCOMI	MD	1/22/2007	Current	7/11/2007			
MD	FND	Fed Neg Dec - Chemical Processing & Manufacturing	RC	5/25/1994 via Res 94-03	Unknown			1/31/1995	60 FR 38
MD	FND	Fed Neg Dec - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	12/29/1994	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
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)(v)	11/1/1996	61 FR 56474
MD	FND	Fed Neg Dec - Industrial Wastewater	MD		Current	8/7/1995	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg Dec - Large Petroleum Dry Cleaners	MD	1/22/2007	Current	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			
MD	FND	Fed Neg Dec - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res 94-03	Unknown		40 CFR 52.222(a)(1)(v)	1/31/1995	60 FR 38
MD	FND	Fed Neg Dec - Natural Gas/Gasoline Processing Equipment	SBC	5/25/1994	Current	7/13/1994	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed Neg Dec - Offset Lithography	MD		Current	8/7/1995			
MD	FND	Fed Neg Dec - Orchard & Citrus Heaters	MD	6/24/1996	??		40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg Dec - Petroleum Refinery Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed Neg Dec - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(v)	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)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg Dec - Pneumatic Rubber Tire Manufacturing	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153

