FEDERAL OPERATING PERMIT

Permit No.: **102102443**

Company: **County of SB Solid Waste Management Div**

Facility: **Victorville 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

September 28, 2022: Renewal of Title V Permit; processed by Sheri Haggard
Please review to the Statement of Basis Preliminary Determination document dated September 28, 2022 for full details.

July 7, 2016: Renewal of Title V Permit; Samuel Oktay, PE
Update and renew Title V Permit; Responsible Official was updated as well as facility address zip-code; added Part VII SIP History and Status for Cited Rules.

September 28, 2010 Renewal of Title V Permit:
Update and renew Title V Permit after concurrent 30-day public notice and 45-day EPA review periods, effective reissue date November 24, 2010. The following areas of the Title V Permit were updated and or revised;
Part II, Condition B(1), revised to include the statement that records may kept at a separate site as approved by the District.
Part II, (B)(4)(e) and (B)(5), revised annual and semi-annual reporting periods.
Part III, (A)(8), revise condition consistent with landfill NSPS and Rule 1126.
Part III, (A)(14), revised condition to include equivalent ppm concentration limit.
Part III, (A)(17), revised condition consistent with the requirements found in 40 CFR 60.755(a)(3).
Part III, (A)(18), revised condition to include operating parameter flexibility allowed for in 40 CFR 60.753(c).
Part III, (A)(20), added 40 CFR 63, Subpart AAAA applicability reference.

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PART I
INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name:	County of San Bernardino Solid Waste Management Division
Facility Names:	Victorville Sanitary Landfill
Facility Location:	18600 Stoddard Wells Road Victorville, CA 92394-9582
Mailing Address:	222 W. Hospitality Lane, Second Floor San Bernardino, CA 92415-007
Federal Operating Permit Number:	102102443
MDAQMD Company Number:	1021
MDAQMD Facility Number:	2443
Responsible Official:	Marc Rodabaugh, P.E. Chief Engineer 909-386-9017 Marc.Rodabaugh@dpw.sbcounty.gov
Facility "Site" Contact(s):	Marc Rodabaugh, P.E. Chief Engineer 909-386-9017 Marc.Rodabaugh@dpw.sbcounty.gov
Facility "Off Site" Contact(s):	None
Nature of Business:	Landfill
SIC/NAICS Code:	9511/924110
Facility Coordinates	34.586418, -117.268803 (lat/long)

B. FACILITY DESCRIPTION:

The County of San Bernardino Solid Waste Management Division – Victorville Sanitary Landfill (VSL) is an active landfill that disposes of municipal solid waste (MSW). VSL has been in operation since 1955, was converted to a solid waste facility in 1975, and was acquired by the County of San Bernardino in a land transfer from the Bureau of Land Management in November 2000. The landfill gas (LFG) collection and control system (GCCS) was installed in 2003. In October of 2005, VSL was issued its initial Federal Title V Operating permit. Title V applicability is triggered for VSL by the Emission Guidelines (EG) for Municipal Solid Waste (MSW) Landfills, promulgated under 40 Code of Federal Regulations (CFR) Part 60, Subpart Cf - *Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills*.

Under their Solid Waste Facility Permit (SWIS 36-AA-0045, last issued 4/2/21), VSL has a maximum permitted capacity of 93.4 million cubic yards, facility area of 491 acres, a disposal area of 341 acres, and is permitted to receive 3,000 tons per day.

C. EQUIPMENT DESCRIPTION

VSL includes the following equipment described as the landfill gas collection and control system (GCCS) (District permit number C008239):

- One (1) LFG, Enclosed flare (5.4 to 54 million British Thermal Units per hour (MMBtu/hr)), manufactured by LFG & E,
- Landfill Gas Knockout Vessel/Fuel Filter (V-l),
- Two Blowers (75 hp), manufactured by Hoffman and variable frequency drive (VFD) (250 to 2,000 standard cubic feet per minute (scfm)),
- Flame Arrester (FA-1),
- Flow Element Pitot (FE-1),
- Air Compressor Assembly (CMP-1A/B with spare, 88 scfm at 125 psi),
- Primary Condensate Holding Tank (5,000 gallon),
- Secondary Condensate Holding Tank (6,600 gallon),
- Landfill Gas header and laterals. Landfill Gas
- Condensate Pneumatic Pump Stations

VSL is further described as SWIS (Solid Waste Information System) Number 36-AA-0045 and classified as active. VSL has a maximum permitted capacity of 93.4 million cubic yards (greater than 3.27 million cubic yards); a facility area of 491 acres; and a disposal area of 341 acres. Under CalRecycle permit, VSL is permitted to receive 3,000 tons per day; normally receives an average of 1,400 tons per day. VSL has a Waste In Place of 11.184 million tons (greater than 2.75 million tons), as reported March 13, 2017; and a, Heat Input Capacity of 34.4, which was last reported in 2014.

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

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit to construct is required to build, erect, install, alter or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants.
[District Rule 201 - *Permits to Construct*]

2. A permit is required to operate this facility. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.
[District Rule 203 - *Permit to Operate*]

3. The Air Pollution Control Officer may impose written conditions on any permit to assure compliance with all applicable regulations.
[District Rule 204 - *Permit Conditions*]

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

5. Posting of the Permits to Operate may be posted in a visible location within the facility office.
[District Rule 206 - Posting of Permit to Operate]

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

7. Permits are not transferable.
[District Rule 209 - *Transfer and Voiding of Permit*]

8. The Air Pollution Control Officer (APCO) may require the applicant or permittee to provide and maintain such facilities as are necessary for sampling and testing. In the event of such requirements, the Air Pollution Control Officer shall notify the applicant in writing of the required size, number and location of sampling ports; the size and location of the sampling platform: the access to the sampling platform, and the utilities for operating the sampling and testing equipment. The platform and access shall be constructed in accordance with the General Industry Safety Orders of the State of California.
[District Rule 217 - *Provision for Sampling and Testing Facilities*]

9. The equipment at this facility shall not require a District permit or be listed on the Title V

permit if such equipment is listed in District Rule 219 and meets the applicable criteria contained in District Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[District Rule 219 - *Equipment Not Requiring a Written Permit*]

10. This Facility, which is subject to the provisions of District Regulation XII, shall obtain a Federal Operating Permit.
[District Rule 221 - *Federal Operating Permit Requirement*]

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

12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[District Rule 312 - *Fees for Federal Operating Permits*]

13. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
    (a) General Visible Emissions Limitation:
        (i) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
        (ii) Of such opacity as to obscure an observer's view to a degree equal to or greater than 20% opacity.
    (b) Abrasive Blasting Visible Emissions Limitation:
        (i) For indoor operations using noncertified Abrasive Blasting materials, of such opacity as to obscure an observer's view to a degree equal to or greater than 20% opacity (or equivalent Ringelmann 1).
        (ii) For outdoor operations using wet abrasive blasting, hydroblasting, vacuum blasting, or abrasives certified for permissible dry outdoor blasting materials, of such opacity as to obscure an observer's view to a degree equal to or greater than 40% opacity (or equivalent Ringelmann 2).

[District Rule 401 – *Visible Emissions*]

14. Any air contaminant from any emission source whatsoever located at this Facility, shall not be discharged into the Atmosphere for a period or periods aggregating more than three minutes in any one hour, which is as observed using EPA Method 9 (Visual Determination of the Opacity of Emissions from Stationary Sources). Visible emissions from this facility, of any air contaminant into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
    (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and supplier's certification information.

(b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:

(i) Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.

(ii) Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.

(iii) Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5 year period.

(iv) On any of the above, if a visible emissions inspection documents opacity, an Environmental Protection Agency (EPA) Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

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

15. Owner/Operator shall not burn any gaseous fuel at this facility containing sulfur compounds in excess of 800 parts per million (ppm), calculated as hydrogen sulfide at standard conditions, or any liquid or solid fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site and available for review by District, state or federal personnel at any time. Compliance with Rule 431 fuel sulfur limit for diesel fuel is assumed for CARB certified diesel fuel. The sulfur content of non-CARB diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82, or ASTM method D 2880-71, or equivalent.
[District Rule 431 - *Sulfur Content of Fuels*]
[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

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

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in District Rule 404, Table 404 (a).

(a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
(b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
(c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[District Rule 404 - *Particulate Matter Concentration*]

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

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

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, any one or more of the following contaminants in any state or combination thereof, exceeding in concentration:
(a) Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO_2), 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 (CO_2) 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 trichlorotrifluroethane.
(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 50ºC (120º 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 District Rule 1126, Municipal Solid Waste Landfills, by implementing the provisions of 40 Code of Federal Regulations (CFR) Part 60, Subpart Cf - Emission Guidelines and Compliance Times for MSW Landfills.
[District Rule 1126 - *Municipal Solid Waste Landfills*]

31. The owner/operator shall comply with all applicable provisions of District Rule 1168 – Adhesive and Sealant Applications, including but not limited to, the VOC limits specified in Table 1 of District Rule 1168, as well as, the Solvent Cleaning Operations and Transfer Efficiency requirements.

32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).
[Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

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

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

34. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after this FOP expiration date. If the permit renewal has not been issued by this FOP expiration date, but a timely application for renewal has been submitted and deemed complete in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.
[District Rule 1202(B)(3)(b)(i); District Rule 1202(E)(2)(a)]

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 January 1 - December 31	Due by January 30

5. The owner/operator shall submit, semi-annually, a Monitoring Report to the APCO/District. The Monitoring Reports shall be certified to be true, accurate, and complete, signed by the Responsible Official, and shall include the following information and/or data:
   (a) Summary of deviations from any federally enforceable requirement in this permit.
   (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement/federally - enforceable requirement.
   (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement/federally enforceable requirement that does not directly require such monitoring.
   (d) Summary of necessary requirements concerning use and maintenance of equipment, including the installation and maintenance of monitoring equipment.

(e) The semi-annual reporting periods shall be submitted as follows:

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

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

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation.
[District Rule 1203(D)(1)(e)(ii) and District Rule 430(C)]
Prompt reporting shall be determined as follows:
   (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District.
   [SIP Pending: District Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]
   (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months.
   [District Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
   (a) A narrative description of how the facility will achieve compliance with such requirements; and
   (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order,

administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

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

C. FACILITY-WIDE COMPLIANCE CONDITIONS:

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

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

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

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

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

6. Owner/Operator shall comply in a timely manner with all applicable requirements /

federally - enforceable requirements that become effective during the term of this permit. [District Rule 1201(I)(2) and District Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, National Emission Standards for Hazardous Air Pollutants, subpart A, General Provisions, and subpart M, Asbestos.
[40 CFR 61, Subparts A and M]

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

A. This facility is subject to the Regulation to Achieve Greenhouse Gas Emission Reductions - Methane Emissions from Municipal Solid Waste Landfills [17 CCR 95460 – 95476]. Under this regulation, this facility is defined as an Active MSW Landfill Greater Than or Equal to 450,000 tons of Waste-in-Place [§95463(b)]. This facility has a calculated landfill gas heat input capacity (HIC) greater than 3.0 MMBtu/hr [§95463(b)(2)]; and has opted to demonstrate compliance using a Gas Collection and Control System with an enclosed flare as specified under the Equipment Description (Part I, Section C of this permit) [§95464 -95476]. Since this California plan is only partially approved by EPA, this facility is also subject to the following provisions of 40 CFR 62, Subpart OOO: 40 CFR 62. 16716(c); 62.16720(a)(4); 62,16722(a)(2) and (a)(3); 62.16724(k); and 62.16726(e)(2) and (5).

0. Prior to modifying the existing gas the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit), the existing Design Plan must be amended to include any necessary updates or addenda, and must be certified by a professional engineer. An amended Design Plan must be submitted to the Executive Officer (District) within 90 days of any event that requires a change to the Design Plan. The Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) must be operated, maintained, and expanded in accordance with the procedures and schedules in the approved Design Plan. [17 CCR 95464(a)(1)-(6), federal authority: 40 CFR 62.1100(b)(7)]

1. The owner/operator must satisfy the following requirements when operating the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit):
   (a) Route the collected gas to a gas control device or devices, and operate the gas collection and control system continuously except as provided in conditions 5 and 6 of Part III, section A [17 CCR 95464(d) and 95464(e)].
   (b) Operate the gas collection and control system so that there is no landfill gas leak that exceeds 500 ppmv, measured as methane, at any component under positive pressure.
   (c) The gas collection system must be designed and operated to draw all the gas toward the gas control device or devices.

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

2. The owner/operator must satisfy the following requirements when operating the flare under the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit):
   (a) Route the collected gas to the enclosed flare that meets the following requirements:
      (i) Achieves a methane destruction efficiency of at least 99 percent by

weight.

(ii) Is equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors.

(iii) During restart or startup there must be a sufficient flow of propane or commercial natural gas to the burners to prevent unburned collected methane from being emitted to the atmosphere.

(iv) The gas control device must be operated within the parameter ranges established during the initial or most recent source test.

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

3. The owner/operator must conduct an annual source test (once every 12 months) on the flare under the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) subject to the requirements of sections 17 CCR 95464(b)(2)(A) using the test methods identified in 17 CCR 95471(f), as summarized under condition 20(f) of Part III, section A. An initial source test must be conducted within 180 days of initial start up of the gas collection and control system. Each succeeding complete annual source test must be conducted no later than forty-five (45) days after the anniversary date of the initial source test.

(a) If a gas control device remains in compliance after three consecutive source tests the owner or operator may conduct the source test every three years. If a subsequent source test shows the gas collection and control system is out of compliance the source testing frequency will return to annual.

[17 CCR 95464(b)(4), federal authority: 40 CFR 62.1100(b)(7), more stringent timeline District Requirement]

4. The owner/operator must operate each wellhead of the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) under a vacuum (negative pressure), except as provided in conditions 5 and 6 of Part III, section A [17 CCR 95464(d) and 95464(e)]; or, under any of the following conditions:

(a) Use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits for the wellheads and include them in the Design Plan; or

(b) A decommissioned well.

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

5. The requirements of conditions 1(a), 1(b), and 4 of Part III, section A [17 CCR 95464(b)(1)(A), 95464(b)(1)(B), and 95464(c)] do not apply to individual wells involved in well raising provided the following conditions are met:

(a) New fill is being added or compacted in the immediate vicinity around the well.

(b) Once installed, a gas collection well extension is sealed or capped until the raised well is reconnected to a vacuum source.

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

6. The requirements of conditions 1(a), 1(b), and 4 of Part III, section A [17 CCR 95464(b)(1)(A), 95464(b)(1)(B), and 95464(c)] do not apply to individual landfill gas collection system components that must be temporarily shut down in order to repair the

components, due to catastrophic events such as earthquakes, to connect new landfill gas collection system components to the existing system, to extinguish landfill fires, or to perform construction activities pursuant to section 17 CCR 95466, provided the following requirements are met:

(a) Any new gas collection system components must be included in the most recent Design Plan pursuant to section 17 CCR 95464(a)(4).

(b) Methane emissions are minimized during shutdown pursuant to the design plan requirements in section 17 CCR 95464(a)(1)(D).

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

7. Except as provided in conditions 5 and 6 of Part III, section A [17 CCR 95464(d), 95464(e)], beginning January 1, 2011, or upon commencing operation of a newly installed gas collection and control system or modification of an existing gas collection and control system under an approved Design Plan pursuant to 17 CCR 95464(a)(1), whichever is later, no location on the MSW landfill surface may exceed either of the following methane concentration limits:

(a) 500 ppmv, other than non-repeatable, momentary readings, as determined by instantaneous surface emissions monitoring.

(b) An average methane concentration limit of 25 ppmv as determined by integrated surface emissions monitoring.

(c) The requirements of condition 7(a) and (b) of Part III, section A, above (section 17 CCR 95465) do not apply to the working face of the landfill or to areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal system, or for law enforcement activities requiring excavation.

[17 CCR 95465(a) and 17 CCR 95466, federal authority: 40 CFR 62.1100(b)(7)]

8. The gas collection and control system at a closed MSW landfill can be capped or removed provided the following requirements are met:

(a) The gas collection and control system was in operation for at least 15 years, unless the owner or operator can demonstrate to the satisfaction of the Executive Officer that due to declining methane rates the MSW landfill will be unable to operate the gas collection and control system for a 15-year period.

(b) Surface methane concentration measurements do not exceed the limits specified in condition 7 of Part III, section A [17 CCR 95465].

(c) The owner or operator submits an Equipment Removal Report to the Executive Officer pursuant to 17 CCR 95470(b)(2).

[17 CCR 95467(a), federal authority: 40 CFR 62.1100(b)(7)]

9. The owner/operator must conduct instantaneous and integrated surface monitoring of the landfill surface quarterly using the procedures specified in condition 20 of Part III, section A [17 CCR 95471(c)].

(a) Any reading exceeding the limit specified in condition 7(a) of Part III, section A [17 CCR 95465(a)(1)] must be recorded as an exceedance and the following actions must be taken:

(i) The owner or operator must record the date, location, and value of each exceedance, along with re-test dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the MSW landfill, drawn to scale with the location of both the grids and the gas collection system clearly identified.

(ii) Corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the location must be remonitored within ten calendar days of a measured exceedance.

a. If the re-monitoring of the location shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.

b. If the re-monitoring shows a third exceedance, the owner or owner or operator must install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of 17 CCR 95460 – 95476.

(iii) Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the limit specified in condition 7(a) of Part III, section A [17 CCR 95465(a)(1)] after four consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limit specified in 17 CCR 95465(a)(1), as summarized in condition 7(a) of Part III, section A, detected during the annual monitoring that can not be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.

(iv) Any exceedances of the limit specified in condition 7(a) of Part III, section A [17 CCR 95465(a)(1)] detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.

(b) Any reading exceeding the limit specified in condition 7(b) of Part III, section A [17 CCR 95465(a)(2)] must be recorded as an exceedance and the following actions must be taken:

(i) The owner or operator must record the average surface concentration measured as methane for each grid along with re-test dates and results. The location of the grids and the gas collection system must be clearly marked and identified on a topographic map of the MSW landfill drawn to scale.

(ii) Within 10 calendar days of a measured exceedance, corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the grid must be re-monitored.

a. If the re-monitoring of the grid shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.

b. If the re-monitoring in condition 9(b)(ii)(a) of Part III, section A [17 CCR 95469(a)(2)(B)1.] shows a third exceedance, the owner

or operator must install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of 17 CCR 95460 – 95476.

(iii) Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the limit specified in condition 7(b) of Part III, section A [17 CCR 95465(a)(2)], after 4 consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limits specified in in condition 7(b) of Part III, section A [17 CCR 95465(a)(2)] detected during the annual monitoring that can not be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.

(iv) Any exceedances of the limits specified in condition 7(b) of Part III, section A [17 CCR 95465(a)(2)] detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.

(c) An owner/operator of a closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that can demonstrate that in the three years before the effective date of this 17 CCR 95460 – 95476 that there were no measured exceedances of the limits specified in condition 7 of Part III, section A [17 CCR 95465] by annual or quarterly monitoring may monitor annually. Any exceedances of the limits specified in condition 7 of Part III, section A [17 CCR 95465] detected during the annual monitoring that can not be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.

[17 CCR 95469(a), federal authority: 40 CFR 62.1100(b)(7)]

10. The owner/operator must monitor the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) using the following procedures:

(a) The enclosed flare equipment must be installed, calibrated, maintained, and operated according to the manufacturer's specifications:

(i) A temperature monitoring device equipped with a continuous recorder which has an accuracy of plus or minus (±) 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit.

(ii) At least one gas flow rate measuring device which must record the flow to the control device(s) at least every 15 minutes.

[17 CCR 95469(b)(1), federal authority: 40 CFR 62.1100(b)(7)]

(b) Components containing landfill gas and under positive pressure must be monitored quarterly for leaks. Any component leak must be tagged and repaired within 10 calendar days, or it is a violation.

[17 CCR 95469(b)(3), federal authority: 40 CFR 62.1100(b)(7)]

11. The owner/operator must monitor each individual wellhead monthly to determine the gauge pressure. If there is any positive pressure reading other than as provided in conditions 5 and 6 of Part III, section A [17 CCR 95464(d) and 95464(e)], the owner/operator must take the following actions:

(a) Initiate corrective action within five calendar days of the positive pressure measurement.

(b) If the problem cannot be corrected within 15 days of the date the positive pressure was first measured, the owner or operator must initiate further action, including, but not limited to, any necessary expansion of the gas collection system, to mitigate any positive pressure readings.

(c) Corrective actions, including any expansion of the gas collection and control system, must be completed and any new wells must be operating within 120 days of the date the positive pressure was first measured, or it is a violation.

[17 CCR 95469(c), federal authority: 40 CFR 62.1100(b)(7)]

12. The owner/operator must maintain the following records, whether in paper, electronic, or other format, for at least five (5) years:

(a) All gas collection system downtime exceeding five calendar days, including individual well shutdown and disconnection times, and the reason for the downtime.

(b) All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.

(c) Expected gas generation flow rate calculated pursuant to condition 20(e) of Part III, section A [17 CCR 95471(e)].

(d) Records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in conditions 1(b) and 7 of Part III, section A [17 CCR 95464(b)(1)(B) or 95465], including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion.

(e) Records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken.

(f) Annual solid waste acceptance rate and the current amount of waste-in-place.

(g) Records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system.

(h) Results of any source tests conducted pursuant to condition 3 of Part III, section A [17 CCR 95464(b)(4)].

(i) Records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere:

(j) Records of any construction activities pursuant to condition 7(c) of Part III, section A [17 CCR 95466. The records must contain the following information:

(i) A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions.

(i) Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components.

(iii) A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts.

(k) Records of the equipment operating parameters specified to be monitored under condition 10(a) of Part III, section A [17 CCR 95469(b)(1)] as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:

(i) For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with condition 2 of Part III, section A, [17 CCR 95464(b)(2)] was determined.

[17 CCR 95470(a)(1), federal authority: 40 CFR 62.1100(b)(7)]

13. The owner/operator must maintain the following records, whether in paper, electronic, or other format, for the life of each gas control device, as measured during the initial source test or compliance determination:

(a) The control device vendor specifications.

(b) The expected gas generation flow rate as calculated pursuant to condition 20(e) of Part III, section A [17 CCR 95471(e)].

(c) The percent reduction of methane achieved by the control device determined pursuant to condition 20(f) of Part III, section A [17 CCR 95471(f)].

[17 CCR 95470(a)(2), federal authority: 40 CFR 62.1100(b)(7)]

14. The owner/operator must maintain copies of the records and reports required by Part III, Section A of this permit [17 CCR 95464 - 95476] and provide them to the District within five business days upon request. Records and reports must be kept at a location within the State of California.

[17 CCR 95470(a)(3), federal authority: 40 CFR 62.1100(b)(7)]

15. Any owner/operator of a MSW landfill which has ceased accepting waste must submit a Closure Notification to the Executive Officer within 30 days of waste acceptance cessation.

(a) The Closure Notification must include the last day solid waste was accepted, the anticipated closure date of the MSW landfill, and the estimated waste-in-place.

(b) The District may request additional information as necessary to verify that permanent closure has taken place in accordance with the requirements of any applicable federal, State, local, or tribal statues, regulations, and ordinances in effect at the time of closure.

[17 CCR 95470(b)(1), federal authority: 40 CFR 62.1100(b)(7)]

16. A gas collection and control system Equipment Removal Report must be submitted to the Executive Officer 30 days prior to well capping, removal or cessation of operation of the gas collection, treatment, or control system equipment. The report must contain all of the following information:

(a) A copy of the Closure Notification submitted pursuant to condition 15 of Part III, section A [17 CCR 95470(b)(1)].

(b) A copy of the initial source test report or other documentation demonstrating that

the gas collection and control system has been installed and operated for a minimum of 15 years, unless the owner or operator can demonstrate to the satisfaction of the District that due to declining methane rates the landfill is unable to operate the gas collection and control system for a 15-year period.

(c) Surface emissions monitoring results needed to verify that landfill surface methane concentration measurements do not exceed the limits specified in condition 7 of Part III, section A [17 CCR 95465].

[17 CCR 95470(b)(2), federal authority: 40 CFR 62.1100(b)(7)]

17. The owner/operator must prepare an annual report for the period of January 1 through December 31 of each year. Each annual report must be submitted to the Executive Officer by March 15 of the following year. The annual report must contain the following information:
    (a) The MSW landfill name, owner and operator, address, and solid waste information system (SWIS) identification number.
    (b) Total volume of landfill gas collected (reported in standard cubic feet).
    (c) Average composition of the landfill gas collected over the reporting period (reported in percent methane and percent carbon dioxide by volume).
    (d) Gas control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each control device.
    (e) The date that the gas collection and control system was installed and in full operation.
    (f) The percent methane destruction efficiency of each gas control device(s).
    (g) Type and amount of supplemental fuels burned with the landfill gas in each device.
    (h) Total volume of landfill gas shipped off-site, the composition of the landfill gas collected (reported in percent methane and percent carbon dioxide by volume), and the recipient of the gas.
    (i) Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface.
    (j) The information required by condition 12(a), (b), (c), (d), (e), (f), (h), and (k) of Part III, section A [17 CCR 95470(a)(1)(A), 95470(a)(1)(B), 95470(a)(1)(C), 95470(a)(1)(D), 95470(a)(1)(E), and 95470(a)(1)(F), 95470(a)(1)(H), and 95470(a)(1)(K)].

    [17 CCR 95470(b)(3), federal authority: 40 CFR 62.1100(b)(7)]

18. Any report, or information submitted pursuant to Part III, section A of this permit [17 CCR 95460 – 95476] must contain certification by a Responsible Official of truth, accuracy, and completeness. This certification, and any other certification required under Part III, section A of this permit [17 CCR 95460 – 95476], must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
    [17 CCR 95470(b)(6), federal authority: 40 CFR 62.1100(b)(7)]

19. Any instrument used for the measurement of methane must be a gas detector or other

equivalent instrument approved by the District that meets the calibration, specifications, and performance criteria of EPA Reference Method 21, Determination of Volatile Organic Compound Leaks, 40 CFR Part 60, Appendix A (as last amended 65 Fed.Reg. 61744 (October 17, 2000)), which is incorporated by reference herein, except for the following:

(a) "Methane" replaces all references to volatile organic compounds (VOC).

(b) The calibration gas shall be methane.

[17 CCR 95471(a), federal authority: 40 CFR 62.1100(b)(7)]

20. The owner/operator must measure the landfill surface concentration of methane using a hydrocarbon detector meeting the requirements of condition 19 of Part III, section A [17 CCR 95471(a)]. The landfill surface must be inspected using the following procedures:

(a) *Monitoring Area:* The entire landfill surface must be divided into individually identified 50,000 square foot grids. The grids must be used for both instantaneous and integrated surface emissions monitoring.

(i) Testing must be performed by holding the hydrocarbon detector's probe within 3 inches of the landfill surface while traversing the grid.

(ii) The walking pattern must be no more than a 25-foot spacing interval and must traverse each monitoring grid.

a. If the owner/operator has no exceedances of the limits specified in condition 7 of Part III, section A [section 17 CCR 95465] after any four consecutive quarterly monitoring periods, the walking pattern spacing may be increased to 100-foot intervals. The owner/operator must return to a 25-foot spacing interval upon any exceedances of the limits specified in condition 7 of Part III, section A [17 CCR 95465] that cannot be remediated within 10 calendar days or upon any exceedances detected during a compliance inspection.

b. If an owner/operator of a MSW landfill can demonstrate that in the past three years before June 17, 2020 that there were no measured exceedances of the limit specified in condition 7(a) of Part III, section A [17 CCR 95465(a)(1)] by annual or quarterly monitoring, the owner or operator may increase the walking pattern spacing to 100-foot intervals. The owner/operator must return to a 25-foot spacing interval upon any exceedances of the limits specified in condition 7 of Part III, section A [17 CCR 95465] that cannot be remediated within 10 calendar days or upon any exceedances detected during a compliance inspection.

(iii) Surface testing must be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds 10 miles per hour. The District may approve alternatives to this wind speed surface testing termination for MSW landfills consistently having measured winds in excess of these specified limits. Average wind speed must be determined on a 15-minute average using an on-site anemometer with a continuous recorder for the entire duration of the monitoring event.

(iv) Surface emissions testing must be conducted only when there has been no

measurable precipitation in the preceding 72 hours.

(b) *Instantaneous Surface Emissions Monitoring Procedures:*
  (i) The owner/operator must record any instantaneous surface readings of methane 200 ppmv or greater, other than non-repeatable, momentary readings.
  (ii) Surface areas of the MSW landfill that exceed a methane concentration limit of 500 ppmv must be marked and remediated pursuant to condition 9(a) of Part III, section A [17 CCR 95469(a)(1)].
  (iii) The wind speed must be recorded during the sampling period.
  (iv) The landfill surface areas with cover penetrations, distressed vegetation, cracks or seeps must also be inspected visually and with a hydrocarbon detector.

(c) *Integrated Surface Emissions Monitoring Procedures:*
  (i) Integrated surface readings must be recorded and then averaged for each grid.
  (ii) Individual monitoring grids that exceed an average methane concentration of 25 ppmv must be identified and remediated pursuant to condition 9(b) of Part III, section A [17 CCR 95469(a)(2)].
  (iii) The wind speed must be recorded during the sampling period.

(d) *Gas Collection and Control System Leak Inspection Procedures:* Leaks must be measured using a hydrocarbon detector meeting the requirements of condition 19 of Part III, section A [17 CCR 95471(a)].

(e) *Determination of Expected Gas Generation Flow Rate:* The expected gas generation flow rate must be determined as prescribed in the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories, Chapter 3, using a recovery rate of 75 percent.

(f) *Control Device Destruction Efficiency Determination*: The following methods of analysis must be used to determine the efficiency of the control device in reducing methane:
  (i) One of the following test methods, all of which are incorporated by reference herein (and all as promulgated in 40 CFR, Part 60, Appendix A, as last amended 65 Fed.Reg. 61744 (October 17, 2000) at the pages cited below must be used to determine the efficiency of the control device in reducing methane by at least 99 percent, or in reducing the outlet methane concentration for lean burn engines to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen:
    a. EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions By Gas Chromatography (65 Fed.Reg. at 62007);
    b. EPA Reference Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon (65 Fed.Reg. at 62044);
    c. EPA Reference Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer (65 Fed.Reg. at 62062); or
    d. EPA Reference Method 25C, Determination of Nonmethane

Organic Compounds in Landfill Gases (65 Fed.Reg. at 62066).
The following equation must be used to calculate destruction efficiency:

$$Destruction\ Efficiency = \left[1 - \left(\frac{Mass\ of\ Methane - Outlet}{Mass\ of\ Methane - Inlet}\right)\right] \times 100\%$$

(g) *Determination of Gauge Pressure:* Gauge pressure must be determined using a hand-held manometer, magnahelic gauge, or other pressure measuring device approved by the Executive Officer. The device must be calibrated and operated in accordance with the manufacture's specifications.

(h) *Alternative Test Methods*: Alternative test methods may be used provided that they are approved in writing by the District.

[17 CCR 95471(b)through(h), federal authority: 40 CFR 62.1100(b)(7)]

The following conditions are required by 40 CFR 62, Subpart OOO since the Regulation to Achieve Greenhouse Gas Emission Reductions - Methane Emissions from Municipal Solid Waste Landfills [17 CCR 95460 – 95476] is only partially approved by USEPA:

21. The owner/operator must operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit).

(a) The owner/operator may establish a higher operating temperature value at a particular well. A higher operating value demonstration must be submitted to the District for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (*i.e.,* neither causing fires nor killing methanogens is acceptable).

[40 CFR 62.16716(c), higher temperature from 40 CFR 63.1958(c)(1), as allowed by 40 CFR 62.16716, 62.16720, and 62.16722]

22. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner/operator must monitor each well monthly for temperature as provided in condition 21 of Part III, section A [40 CFR 62.16716(c)]. If a well exceeds the operating parameter for temperature, action must be initiated to correct the exceedance within 5 calendar days. Any attempted corrective measure must not cause exceedances of other operational or performance standards.

(a) If a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit) cannot be achieved within 15 calendar days of the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit), the owner/operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after a landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) was first measured. The owner or operator must keep records according to 40 CFR 62.16726(e)(3).

(b) If corrective actions cannot be fully implemented within 60 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) for which the root cause analysis was required, the owner/operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit). The owner/operator must submit the items listed in 40 CFR 62.16724(h)(7) as part of the next annual report. The owner/operator must keep records according to 40 CFR 62.16726(e)(4).

(c) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator (District), according to condition 24 of Part III, section A [40 CFR 62.16724(h)(7) and 40 CFR 62.16724(k)]. The owner/operator must keep records according to 40 CFR 62.16726(e)(5).

[40 CFR 62.16720(a)(4), higher temperature from 40 CFR 63.1958(c)(1), as allowed by 40 CFR 62.16716, 62.16720, and 62.16722]

23. The owner/operator must install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as follows:

(a) The nitrogen level must be determined using EPA Method 3C of appendix A-2 of 40 CFR part 60, unless an alternative test method is established as allowed by 40 CFR 62.16724(d)(2).

(b) Unless an alternative test method is established as allowed by 40 CFR 62.16724(d)(2), the oxygen level must be determined by an oxygen meter using EPA Method 3A of appendix A-7 of 40 CFR part 60, EPA Method 3C of appendix A-7 of 40 CFR part 60, or ASTM D6522-11. Determine the oxygen level by an oxygen meter using EPA Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) except that:

(i) The span must be set between 10- and 12-percent oxygen;
(i) A data recorder is not required;
(iii) Only two calibration gases are required, a zero and span;
(iv) A calibration error check is not required;
(v) The allowable sample bias, zero drift, and calibration drift are ±10 percent.

(c) A portable gas composition analyzer may be used to monitor the oxygen levels provided:

(i) The analyzer is calibrated; and
(ii) The analyzer meets all quality assurance and quality control requirements for EPA Method 3A or ASTM D6522-11.

Additionally, the owner/operator must monitor temperature of the landfill gas on a monthly basis as provided in condition 22 of Part III, section A [40 CFR 62.16720(a)(4)]. The temperature measuring device must be calibrated annually using the procedure in 40 CFR part 60, appendix A-1, EPA Method 2, section 10.3.

[40 CFR 62.16722(a)(2)and(3)]

24. The owner/operator must submit according to paragraphs must follow the corrective action and the corresponding timeline reporting requirements in 40 CFR 63.1981(j), as summarized below:
    (a) The owner/operator must submit information regarding corrective actions according to paragraphs as follows:
        (i) For corrective action that is required according to 40 CFR 63.1960(a)(3) or (4) and is not completed within 60 days after the initial exceedance, the owner/operator must submit a notification to the Administrator (District) as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature exceedance.
        (ii) For corrective action that is required according to 40 CFR 63.1960(a)(3) or (4) and is expected to take longer than 120 days after the initial exceedance to complete, the owner/operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator (District) as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above unless a higher operating temperature value has been approved by the Administrator (District) for the well under this subpart or under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a Federal plan or EPA approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc or 40 CFR part 60, subpart Cf. The Administrator (District) must approve the plan for corrective action and the corresponding timeline.

    [40 CFR 62.16724(k)]

25. The owner/operator must keep for at least five (5) years up-to-date, readily accessible records of the following items:
    (a) Each wellhead temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above, each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent.
    (b) For any root cause analysis for which corrective actions are required in condition 22(a) of Part III, section A [40 CFR 62.16720(a)(3)(iii) or 62.16720(a)(4)(iii)], keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the regulatory agency.

    [40 CFR 62.16726(e)(2)and(5), higher temperature from 40 CFR 63.1958(c)(1), as allowed by 40 CFR 62.16716, 62.16720, and 62.16722]

B. This facility is subject to the National Emission Standards for Hazardous Air Pollutants:

Municipal Solid Waste Landfills [40 CFR 63, Subpart AAAA]. Under this regulation, this facility is defined as an existing, area source, MSW landfill, that has a design capacity equal to greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m^3) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to 40 CFR 63.1959. [§63.1935(a)(3)]. Under this regulation, the Gas Collection and Control System as specified under the Equipment Description (Part I, Section C of this permit) is considered an Active Control System.

0. The requirements of Part III, Section B of this permit [40 CFR 63, AAAA] apply at all times, including during periods of startup, shutdown, and malfunction (SSM), and the SSM requirements of the General Provisions of 40 CFR 63 do not apply.
[40 CFR 63.1930(b)]

1a. At all times, the owner/operator must operate and maintain the MSW Landfill, including associated air pollution control equipment (the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit)); and, monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner/operator to make any further efforts to reduce emissions if the requirements of 40 CFR 63, Subpart AAAA have been achieved as summarized by Part III, Section B of this permit. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the District which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[40 CFR 63.1955(c)]

1b. The Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) may be capped, removed, or decommissioned by the owner/operator provided that the removal criteria outlined below are met:

(a) The landfill is a closed landfill (as defined in 40 CFR 63.1990). A closure report must be submitted to the Administrator (District) as provided in condition 20 of Part III, Section B [40 CFR 63.1981(f)];

(b) The gas collection and control system has been in operation a minimum of 15 years or the landfill owner/operator demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flow; and

(c) Following the procedures specified in condition 3c of Part III, Section B [40 CFR 63.1959(c)], the calculated NMOC emission rate at the landfill is less than 50 Mg/yr on three successive test dates. The test dates must be no less than 90 days apart, and no more than 180 days apart.

[40 CFR 63.1957(b)]

2. The owner/operator must operate the Gas Collection and Control System (as specified under the Equipment Description (Part I, Section C of this permit) as follows:

(a) Operate the collection system such that gas is collected from each area, cell, or

group of cells in the MSW landfill in which solid waste has been in place for:
(i) 5 years or more if active; or
(ii) 2 years or more if closed or at final grade;

(b) Operate the collection system with negative pressure at each wellhead except under the following conditions:
(i) A fire or increased well temperature. The owner/operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in condition 14 [40 CFR 63.1981(h)];
(ii) Use of a geomembrane or synthetic cover. The owner/operator must develop acceptable pressure limits in the design plan;
(iii) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator (District) as specified in condition 19 [40 CFR 63.1981(e)].

(c) Operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit).
(i) The owner/operator may establish a higher operating temperature value at a particular well. A higher operating value demonstration must be submitted to the District for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (*i.e.,* neither causing fires nor killing methanogens is acceptable).

(d) Operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator must conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner/operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.
(i) Beginning no later than September 27, 2021, the owner or operator must:
a. Conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in condition 7a [40 CFR 63.1960(d)].
b. Conduct surface testing at all cover penetrations. Thus, the owner/operator must monitor any cover penetrations that are within an area of the landfill where waste has been placed and a gas collection system is required.
c. Determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4

meters. The coordinates must be in decimal degrees with at least five decimal places.

(e) Operate the system in accordance to condition 1a, above [40 CFR 63.1955(c)] such that all collected gases are vented to a control system designed and operated in compliance with condition 3b [40 CFR 63.1959(b)(2)(iii)]. In the event the collection or control system is not operating:
  (i) The gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating; and
  (ii) Efforts to repair the collection or control system must be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system must be returned to operation.

(f) Operate the control system at all times when the collected gas is routed to the system.

(g) If monitoring demonstrates that the operational requirements in (b), (c), or (d) of this condition are not met, corrective action must be taken as specified in conditions 4 and 6 [40 CFR 63.1960(a)(3) and (5) or (c)]. If corrective actions are taken as specified in conditions 4 and 6 [40 CFR 63.1960], the monitored exceedance is not a deviation of the operational requirements of Part III, Section B of this permit.

[40 CFR 63.1958(a)-(g)]

3a. The owner/operator must install and start up a collection and control system that captures the gas generated within the landfill as required below [40 CFR 63.1959(b)(2)(ii)(B)] and condition 3b [40 CFR 63.1959(b)(2)(iii)] of Part III, Section B within 30 months after the first annual report in which the NMOC emission rate equals or exceeds 50 Mg/yr, unless Tier 2 or Tier 3 sampling demonstrates that the NMOC emission rate is less than 50 Mg:

(a) An active collection system must:
  (i) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;
  (ii) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade;
  (iii) Collect gas at a sufficient extraction rate; and
  (iv) Be designed to minimize off-site migration of subsurface gas.

[40 CFR 63.1959(b)(2)(ii)(B)]

3b. The owner/operator must operate the Gas Collection and Control System (as specified under the Equipment Description of Part I, Section C of this permit) in a manner which satisfies the following:

(a) The enclosed flare must achieve either a reduction of NMOC by 98 weight percent or reduces the outlet NMOC concentration to less than 20 ppmv, dry basis as hexane at 3-percent oxygen. The reduction efficiency or ppmv must be established by an initial performance test to be completed no later than 180 days

after the initial startup of the approved control system using the test methods specified in 40 CFR 63.1959(e). The enclosed flare must be operated within the parameter ranges established during the initial or most recent source/performance test. The operating parameters to be monitored are specified 40 CFR 63.1961(b) through (e).

[40 CFR 63.1959(b)(2)(iii)]

3c. After the installation and startup of a collection and control system in compliance with Part III, Section B of this permit [40 CFR 63, Subpart AAAA], the owner/operator must calculate the NMOC emission rate for purposes of determining when the system can be capped, removed, or decommissioned as provided in condition 1b of Part III, Section B [40 CFR 63.1957(b)(3)], using Equation 3, below:

$$MNMOC = 1.89 \times 10^{-3} Q_{LFG} C_{NMOC} \text{ (Eq. 3)}$$

Where:
M_{NMOC} = Mass emission rate of NMOC, Mg/yr.
Q_{LFG} = Flow rate of landfill gas, m^3 per minute.
C_{NMOC} = Average NMOC concentration, ppmv as hexane.
1.89×10^{-3} = Conversion factor.

(a) The flow rate of landfill gas, QLFG, must be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control system using a gas flow measuring device calibrated according to the provisions of section 10 of EPA Method 2E of appendix A-1 of 40 CFR 60.

(b) The average NMOC concentration, CNMOC, must be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in EPA Method 25 or 25C of appendix A-7 to 40 CFR 60. The sample location on the common header pipe must be before any condensate removal or other gas refining units. The landfill owner/operator must divide the NMOC concentration from EPA Method 25 or 25C of appendix A-7 to 40 CFR 60 by 6 to convert from CNMOC as carbon to CNMOC as hexane.

(c) The owner or operator may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator (District).

(i) Within 45 days after the date of completing each performance test (as defined in 40 CFR 63.7, the owner/operator must submit the results of the performance test, including any associated fuel analyses, according to condition 17 [40 CFR 63.1981(l)(1); more stringent due date from the District's Compliance Test Procedural Manual].

[40 CFR 63.1959(c)]

3d. For the performance test required in condition 3b of Part III, Section B [40 CFR 63.1959(b)(2)(iii)(B)], EPA Method 25 or 25C (EPA Method 25C of appendix A-7 to 40 CFR 60 may be used at the inlet only) of appendix A of 40 CFR 60 must be used to

determine compliance with the 98 weight-percent efficiency or the 20- ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator (District as provided by 40 CFR 63.1981(d)(2). EPA Method 3, 3A, or 3C of appendix A-7 to 40 CFR 60 must be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), EPA Method 25A should be used in place of EPA Method 25. EPA Method 18 may be used in conjunction with EPA Method 25A on a limited basis (compound specific, e.g., methane) or EPA Method 3C may be used to determine methane. The methane as carbon should be subtracted from the EPA Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landowner or operator must divide the NMOC concentration as carbon by 6 to convert from the CNMOC as carbon to CNMOC as hexane. Equation 4 must be used to calculate efficiency:

$$\text{Control Efficiency} = (NMOC_{in} - NMOC_{out})/(NMOC_{in}) \qquad \text{(Eq. 4)}$$

Where:
$NMOC_{in}$ = Mass of NMOC entering control device.
$NMOC_{out}$ = Mass of NMOC exiting control device.

[40 CFR 63.1959(d)]

3e. The performance tests required in condition 3b Part III, Section B [40 CFR 63.1959(b)(2)(iii)(B), must be conducted under such conditions as the Administrator (District) specifies to the owner or operator based on representative performance of the affected source for the period being tested. Representative conditions exclude periods of startup and shutdown unless specified by the Administrator (District). The owner/operator may not conduct performance tests during periods of malfunction. The owner/operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the owner/operator shall make available to the Administrator (District) such records as may be necessary to determine the conditions of performance tests.
[40 CFR 63.1959(f)]

3f. For the purposes of determining sufficient density of gas collectors for compliance with condition 3a(ii) of Part III, Section B [40 CFR 63.1959(b)(2)(ii)(B)(2)], the owner/operator must design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator (District), capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.
[40 CFR 63.1960(a)(2)]

4. For the purpose of demonstrating whether the Gas Collection and Control System, as specified under the Equipment Description (Part I, Section C of this permit), flow rate is sufficient to determine compliance with condition 3a(iii) of Part III, Section B [40 CFR

63.1959(b)(2)(ii)(B)(3)], the owner/operator must measure gauge pressure in the gas collection header applied to each individual well monthly. Any attempted corrective measure must not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the District for approval.

(a) If a positive pressure exists, action must be initiated to correct the exceedance within 5 days, except for the conditions allowed under condition 2(b) of Part III, Section B [40 CFR 63.1958(b)].

(i) If negative pressure cannot be achieved without excess air infiltration within 15 days of the first measurement of positive pressure, the owner or operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after positive pressure was first measured. The owner/operator must keep records according to condition 18(e)(iii) of Part III, Section B [40 63.1983(e)(3)].

(ii) If corrective actions cannot be fully implemented within 60 days following the positive pressure measurement for which the root cause analysis was required, the owner/operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the positive pressure measurement. The owner/operator must submit the items listed in condition 14(g) of Part III, Section B [40 CFR 63.1981(h)(7)] as part of the next semi-annual report. The owner or operator must keep records according to condition 18(e)(iv) of Part III, Section B [40 CFR 63.1983(e)(4)].

(iii) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner/operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the District, according to condition 16a of Part III, Section B [40 CFR 63.1981(j)]. The owner/operator must keep records according to condition 18(e)(v) of Part III, Section B [40 CFR 63.1983(e)(5)].

[40 CFR §63.1960(a)(3)]

5a. The owner/operator must demonstrate compliance with the operational standard for temperature in condition 2(c) of Part III, Section B [40 CFR §63.1958(c)(1)] by monitoring temperature of the landfill gas on a monthly basis as specified below [40 CFR 63.1960(a)(4)]. The temperature measuring device must be calibrated annually using the procedure in Section 10.3 of EPA Method 2 of appendix A-1 to 40 CFR 60. Keep records specified in condition 18(e) of Part III, Section B [40 CFR 63.1983(e)].

(a) The owner/operator must monitor each well monthly for temperature for the purpose of identifying whether excess air infiltration exists. If a well exceeds the operating parameter for temperature as provided in condition 4 of Part III, Section B [40 CFR §63.1958(c)(1)], action must be initiated to correct the exceedance within 5 days. Any attempted corrective measure must not cause exceedances of other operational or performance standards.

(i) If a landfill gas temperature less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit) cannot be achieved within 15 days of the first

measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit), the owner/operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after a landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) was first measured. The owner/operator must keep records according to condition 18(e)(iii) of Part III, Section B [40 CFR 63.1983(e)(3)].

(ii) If corrective actions cannot be fully implemented within 60 days following the temperature measurement for which the root cause analysis was required, the owner/operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit). The owner/operator must submit the items listed in 4 condition 14(g) of Part III, Section B [40 CFR 63.1981(h)(7)] as part of the next semi-annual report. The owner or operator must keep records according to condition 18(e)(iv) of Part III, Section B [40 CFR 63.1983(e)(4)].

(iii) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator (District), according to conditions 14(g) and 16 of Part III, Section B [40 CFR 63.1981(h)(7) and (j)]. The owner/operator must keep records according to condition 18(e)(v) of Part III, Section B [40 CFR 63.1983(e)(5)].

(iv) If a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured, according to the procedures in condition 8(c) of Part III, Section B [40 CFR 63.1961(a)(5)(vi)] is greater than or equal to 1,000 ppmv the corrective action(s) for the wellhead temperature standard (62.8 degrees Celsius or 145 degrees Fahrenheit) must be completed within 15 days.

[40 CFR 63.1960 (a)(4)]

5b. For purposes of compliance with condition 2(a) of Part III, Section B [40 CFR 63.1958(a)], each owner/operator of a controlled landfill must place each well or design component as specified in the approved design plan 9as specified in 40 CFR 63.1981(d)). Each well must be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

(a) 5 years or more if active; or

(b) 2 years or more if closed or at final grade.

[40 CFR 63.1960(b)]

6. The owner/operator must use the following procedures for determining compliance with the surface methane operational standard as required in 40 CFR63.1958(d), as referenced in condition 2(d) of Part III, Section B:

(a) The owner/operator must monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications as required by condition 7a of Part III, Section B [40 CFR 63.1960(d), as summarized by 40 CFR 63.1960(c)(1)].

(b) The background concentration must be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells [40 CFR 63.1960(c)(2)].

(c) Surface emission monitoring must be performed in accordance with section 8.3.1 of EPA Method 21 of appendix A-7 of 40 CFR 60, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions [40 CFR 63.1960(c)(3)].

(d) Any reading of 500 ppm or more above background at any location must be recorded as a monitored exceedance and the actions specified below must be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of condition 5a.(a) of Part III, Section B or 40 CFR 63.1958(d) [40 CFR 63.1960(c)(4)].

(i) The location of each monitored exceedance must be marked and the location and concentration recorded. The location must be recorded using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places [40 CFR 63.1960(c)(4)(i)].

(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance must be made and the location must be re-monitored within 10 days of detecting the exceedance [40 CFR 63.1960(c)(4)(ii)].

(iii) If the re-monitoring of the location shows a second exceedance, additional corrective action must be taken and the location must be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in paragraph (d)(v) of this condition must be taken, and no further monitoring of that location is required until the action specified in paragraph (d)(v) of this condition has been taken [40 CFR 63.1960(c)(4)(iii)].

(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in paragraph (d)(ii) or (iii) of this condition must be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in paragraph (d)(iii) or (iv) of this condition must be taken [40 CFR 63.1960(c)(4)(iv)].

(v) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period,

a new well or other collection device must be installed within 120 days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval [40 CFR 63.1960(c)(4)(v)].

(e) The owner or operator must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis [40 CFR 63.1960(c)(5)].

[40 CFR 63.1960(c)]

7a. To demonstrate compliance with the requirements of 40 CFR 63.1960(c), as outlined in condition 6 of Part III, Section B, the owner/operator must comply with the following instrumentation specifications and procedures for surface emission monitoring devices:

(a) The portable analyzer must meet the instrument specifications provided in section 6 of EPA Method 21 of appendix A of 40 CFR 60, except that "methane" replaces all references to "VOC".

(b) The calibration gas must be methane, diluted to a nominal concentration of 500 ppm in air.

(c) To meet the performance evaluation requirements in section 8.1 of EPA Method 21 of appendix A of 40 CFR 60, the instrument evaluation procedures of section 8.1 of EPA Method 21 of appendix A of 40 CFR 60 must be used.

(d) The calibration procedures provided in sections 8 and 10 of EPA Method 21 of appendix A of 40 CFR 60 must be followed immediately before commencing a surface monitoring survey.

[40 CFR 63.1960(d)]

7b. The provisions of Part III, Section B apply at all times, including periods of SSM. During periods of SSM, the owner/operator must comply with the work practice requirement specified in condition 2(e) [40 CFR 63.1958(e)] in lieu of the compliance provisions in 40 CFR 63.1960.

[40 CFR 63.1960(e)(2)]

8. For the Gas Collection and Control System, as specified under the Equipment Description (Part I, Section C of this permit) [40 CFR §63.1959(b)(2)(ii)(B)] the owner/operator must install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

(a) Measure the gauge pressure in the gas collection header on a monthly basis as provided in condition 4 of Part III, Section B [40 CFR § 63.1960(a)(3)]; and

(b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as follows:

(i) The nitrogen level must be determined using EPA Method 3C of appendix A-2 to 40 CFR 60, unless an alternative test method is established as allowed by 40 CFR 63.1981(d)(2).

[40 CFR 63.1961(a)(1)]

(ii) Unless an alternative test method is established as allowed by 40 CFR 63.1981(d)(2), the oxygen level must be determined by an oxygen meter

using EPA Method 3A or 3C of appendix A-2 to 40 CFR 60, or ASTM D6522-11 (incorporated by reference, see 40 CFR § 63.14). Determine the oxygen level by an oxygen meter using EPA Method 3A or 3C of appendix A-2 to part 60 or ASTM D6522-11 (if sample location is prior to combustion) except that:

a. The span must be set between 10- and 12-percent oxygen;
b. A data recorder is not required;
c. Only two calibration gases are required, a zero and span;
d. A calibration error check is not required; and
e. The allowable sample bias, zero drift, and calibration drift are ±10 percent.

(iii) A portable gas composition analyzer may be used to monitor the oxygen levels provided:

a. The analyzer is calibrated; and
b. The analyzer meets all quality assurance and quality control requirements for EPA Method 3A of appendix A-2 to 40 CFR 60 or ASTM D6522-11 (incorporated by reference, see § 63.14).

[40 CFR 63.1961(a)(2)]

(c) The owner/operator must demonstrate compliance with the operational standard for temperature in condition 2(c) of Part III, Section B [40 CFR 63.1958(c)(1)], by monitoring the temperature of the landfill gas on a monthly basis as provided in condition 5a of Part III, Section B [40 CFR 63.1960(a)(4)]. The temperature measuring device must be calibrated annually using the procedure in Section 10.3 of EPA Method 2 of appendix A-1 of 40 CFR 60. The owner/operator must keep records specified in condition 18(e) of Part III, Section B [40 CFR 63.1983(e)]. [40 CFR 63.1961(a)(4)]

(d) The owner/operator must initiate enhanced monitoring at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as follows:

(i) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.
(ii) Monitor oxygen concentration as provided in condition 8(b) of Part III, Section B;
(iii) Monitor temperature of the landfill gas at the wellhead as provided in condition 8(c) of Part III, Section B.
(iv) Monitor temperature of the landfill gas every 10 vertical feet of the well either with a removable thermometer, or using temporary or permanent thermocouples installed in the well.
(v) Monitor the methane concentration with a methane meter using EPA Method 3C of appendix A-6 to 40 CFR 60, EPA Method 18 of appendix A-6 to 40 CFR 60, or a portable gas composition analyzer to monitor the methane levels provided that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.
(vi) Monitor and determine carbon monoxide concentrations, as follows:

a. Collect the sample from the wellhead sampling port in a passivated

canister or multi-layer foil gas sampling bag (such as the Cali-5-Bond Bag) and analyze that sample using EPA Method 10 of appendix A-4 to 40 CFR 60, or an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane; or

b. Collect and analyze the sample from the wellhead using EPA Method 10 of appendix A-4 to 40 CFR 60 to measure carbon monoxide concentrations.

c. When sampling directly from the wellhead, you must sample for 5 minutes plus twice the response time of the analyzer. These values must be recorded. The five 1-minute averages are then averaged to give the carbon monoxide reading at the wellhead.

d. When collecting samples in a passivated canister or multi-layer foil sampling bag, the owner/operator must sample for the period of time needed to assure that enough sample is collected to provide five (5) consecutive, 1-minute samples during the analysis of the canister or bag contents, but no less than 5 minutes plus twice the response time of the analyzer. The five (5) consecutive, 1-minute averages are then averaged together to give a carbon monoxide value from the wellhead.

(vii) The enhanced monitoring described in this paragraph (a)(5) must begin 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit); and

(viii) The enhanced monitoring in this paragraph (a)(5) must be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to monthly. However, if carbon monoxide readings exceed 100 ppmv again, the landfill must return to weekly monitoring.

(ix) The enhanced monitoring in this paragraph (a)(5) can be stopped once a higher operating value is approved, at which time the monitoring provisions issued with the higher operating value should be followed, or once the measurement of landfill gas temperature at the wellhead is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit).

[40 CFR 63.1961(a)(5)]

(e) For each wellhead with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer, or using temporary or permanent thermocouples installed in the well.

[40 CFR 63.1961(a)(6)]

[40 CFR 63.1961(a)(1),(2),(4),(5),(6)]

9. The owner/operator must monitor the enclosed flare of the Gas Control and System, as specified under the Equipment Description (Part I, Section C of this permit), using the following procedures:

(a) The enclosed flare equipment must be installed, calibrated, maintained, and

operated according the manufacturer's specifications, and as follows:

(i) A temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of ±1 percent of the temperature being measured expressed in degrees Celsius or ±0.5 degrees Celsius, whichever is greater.

[40 CFR 63.1961(b)]

10. The owner/operator must monitor surface concentrations of methane according to the procedures in condition 6 of Part III, Section B [40 CFR 63.1960(c)]; and, the instrument specifications in condition 7a of Part III, Section B [40 CFR §63.1960(d)]. The owner/operator must determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters and the coordinates must be in decimal degrees with at least five decimal places. In the semi-annual report in condition 13(h) [40 CFR 63.1981(h)], the owner/operator must report the location of each exceedance of the 500-ppm methane concentration as provided in condition 2(d) [40 CFR 63.1958(d)] and the concentration recorded at each location for which an exceedance was recorded in the previous month. Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.
[40 CFR 63.1961(f)]

11. The monitoring requirements of conditions 8 and 9, above as required by 40 CFR 63.1961(a) and (b), apply at all times the affected source is operating, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The owner/operator is required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable. The operational standards in Conditions 2(c), 2(d)(i), and 2(e), the apply at all times.
[40 CFR 63.1961(h)]

12. A deviation is defined as any instance in which an owner/operator of this source fails to meet any requirement or obligation established by 40 CFR 63, Subpart AAAA, including but not limited to any emission limit, or operating limit, or work practice requirement; or fails to meet any term or condition that is adopted to implement an applicable requirement that is included in this operating permit.
[40 CFR 63.1990]

For the purposes of the landfill monitoring and SSM plan requirements, deviations include the following items:

(a) A deviation occurs when the control device operating parameter boundaries

described below are exceeded [40 CFR §63.1965(a)]:

(i) All 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test.

[40 CFR 63.1983(c)(1)]

(b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. [40 CFR 63.1965(b)]

(i) Averages are calculated at least every 15 minutes and averaged over the same time period of the performance test [40 CFR 63.1983(b)(2)(i)] for average combustion temperature and pursuant to condition 12(a)(i) [40 CFR 63.1983(c)(1)(i)] for 3-hour average combustion temperature for enclosed combustors, except that the data collected during the event listed below are not to be included in any average computed:

a. Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments.
b. Startups.
c. Shutdowns.
d. Malfunctions.

[40 CFR 63.1975]

[40 CFR 63.1965 and 63.1975]

13. The owner/operator must submit the reports specified below and in Table 1 of 40 CFR 63, Subpart AAAA. If the owner/operator has previously submitted a design capacity report, amended design capacity report, initial NMOC emission rate report, initial or revised collection and control system design plan, closure report, equipment removal report, or initial performance test under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a federal plan or EPA-approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc or 40 CFR part 60, subpart Cf, then that submission constitutes compliance with the corresponding reports listed below. The owner/operator does need to re-submit the report(s). However, the owner/operator must include a statement certifying prior submission of the respective report(s) and the date of submittal in the first semi-annual report required in this section.

(a) Initial Design Capacity Report pursuant to 40 CFR 63.1981(a).
(b) Amended Design Capacity Report pursuant to 40 CFR 63.1981(b).
(c) NMOC Emission Rate Report pursuant to 40 CFR 63.1981(c).
(d) Collection and Control System Design Plan pursuant to 40 CFR 63.1981(d).
(e) Revised Design Plan pursuant to 40 CFR 63.1981(e), as outlined by condition 19 of Part III, Section B.
(f) Closure Report pursuant to 40 CFR 63.1981(f), as outlined by condition 20 of Part III, Section B.
(g) Equipment Removal Report pursuant to 40 CFR 63.1981(g) as outlined by condition 21 of Part III, Section B.
(h) Semi-Annual Report pursuant to 40 CFR 63.1981(h) as outlined by condition 14 of Part III, Section B.

(i) Initial Performance Test Report pursuant to 40 CFR 63.1981(i).
[40 CFR 63.1981]

14. The owner/operator must demonstrate compliance with 40 CFR 63.1959(b)(2) using the Gas Control and Collection System, as specified under the Equipment Description (Part I, Section C of this permit), an active collection system designed in accordance with 40 CFR 63.1959(b)(2)(ii), by submitting to the District semi-annual reports. Beginning no later than September 27, 2021, you must submit the report, following the procedure specified in 40 CFR 63.1981(l) (summarized in condition 17, below). The initial report must be submitted within 180 days of installation and startup of the collection and control system and must include the initial performance test report required under 40 CFR 63.7 of subpart A, as applicable. In the initial report, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in lieu of the performance test report if the report has been previously submitted to the EPA's CDX. For enclosed combustion devices and flares, reportable exceedances are defined under condition 18(c) of Part III, Section B [40 CFR 63.1983(c)]. The semi-annual reports must contain the following information as required by 40 CFR 63.1981(h)(1) and (3)-(7):

(a) Owner/operator must provide the number of times that applicable parameters monitored under condition 2(b), (c), and (d) of Part III, Section B [40 CFR 63.1958(b), (c), and (d)] were exceeded and when the gas collection and control system was not operating under condition 2(e) of Part III, Section B [40 CFR 63.1958(e)], including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

(i) Owner/operator must provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under condition 5a of Part III, Section B [40 CFR 63.1961(a)(4)] were exceeded. For each instance, report the date, time, and duration of each exceedance.

(b) *[reserved]*

(c) Owner/operator must provide a description and duration of all periods when the control device or treatment system was not operating and length of time the control device or treatment system was not operating.

(d) Owner/operator must provide all periods when the collection system was not operating.

(e) Owner/operator must provide the location of each exceedance of the 500-ppm methane concentration as provided in condition 2(d) of Part III, Section B [40 CFR 63.1958(d)] and the concentration recorded at each location for which an exceedance was recorded in the previous month. Beginning no later than September 27, 2021, for location, the owner/operator must record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

(f) Owner/operator must provide the date of installation and the location of each well or collection system expansion added pursuant to condition 4, 5a, and 6(d) of Part III, Section B [40 CFR 63.1960(a)(3)-(4), and (c)(4)].

(g) Owner/operator must provide for any corrective action analysis for which corrective actions are required in condition 4(a)(i) of Part III, Section B [40 CFR 63.1960(a)(3)(i) or (a)(5)] and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

[40 CFR 63.1981(h)]

15. The owner/operator for the Gas Control and Collection System, as specified under the Equipment Description (Part I, Section C of this permit) must include the following information with the initial performance test report required under 40 CFR 63.7 of subpart A:

(a) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;

(b) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;

(c) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;

(d) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;

(e) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and

(f) The provisions for the control of off-site migration.

[40 CFR 63.1981(i)]

16a. The owner/operator must submit information regarding corrective actions as follows:

(a) For corrective action that is required according to conditions 4 and 5a of Part III, Section B [40 CFR 63.1960(a)(3) or (4)] and is not completed within 60 days after the initial exceedance, you must submit a notification to the District as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature exceedance.

(b) For corrective action that is required according to conditions 4 and 5a of Part III, Section B [40 CFR 63.1960(a)(3) or (4)] and is expected to take longer than 120 days after the initial exceedance to complete, the owner/operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the District as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above. The District must approve the

plan for corrective action and the corresponding timeline.
[40 CFR 63.1981(j)]

16b. If a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured is greater than or equal to 1,000 ppmv, then the owner/operator must report the date, time, well identifier, temperature and carbon monoxide reading via email to the Administrator (District) within 24 hours of the measurement unless a higher operating temperature value has been approved by the Administrator (District) for the well under this subpart or under 40 CFR part 60, subpart WWW; 40 CFR part 60, subpart XXX; or a Federal plan or EPA approved and effective state plan or tribal plan that implements either 40 CFR part 60, subpart Cc or 40 CFR part 60, subpart Cf.
[40 CFR 63.1981(k)]

17. The owner/operator must submit reports electronically as follows:
(a) Within forty-five (45) days after the date of completing each performance test required by Part III, Section B of this permit, the owner/operator must submit the results of the performance test following the procedures specified [more stringent due date from the District's Compliance Test Procedural Manual]:
(i) Data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (*https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert*) at the time of the test. Submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's CDX (*https://cdx.epa.gov/*). The data must be submitted in a file format generated through the use of the EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website.
(ii) Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test. The results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the ERT generated package or alternative file to the EPA via CEDRI.
(iii) Confidential business information (CBI). If the owner/operator claims some of the information submitted is CBI, the owner/operator must submit a complete file, including information claimed to be CBI, to the EPA. The file must be generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted

must be submitted to the EPA via the EPA's CDX.

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

(c) The owner/operator must also submit all reports electronically to the District at reporting@mdaqmd.ca.gov.

[40 CFR 63.1981(l); more stringent due date from the District's Compliance Test Procedural Manual]

18. The owner/operator must keep the following records to demonstrate compliance with 40 CFR 63, Subpart AAAA. Additionally, the owner/operator must keep records as specified in the general provisions of 40 CFR 63, Subpart AAAA, Table 1:

(a) At least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered 40 CFR 63.1959(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

(b) Up-to-date, readily accessible records for the life of the control system equipment of the data listed below as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. Records of the control device vendor specifications must be maintained until removal.

(i) The maximum expected gas generation flow rate as calculated in 40 CFR 63.1960(a)(1).

(ii) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR 63.1962(a)(1) and (2).

(iii) The average temperature measured at least every 15 minutes and averaged over the same time period of the performance test.

(iv) The percent reduction of NMOC determined as specified in 40 CFR 63.1959(b)(2)(iii)(B) achieved by the control device.

(c) At least 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in conditions 8 through 11 of Part

III, Section B [40 CFR 63.1961] as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

(i) The following constitute exceedances that must be recorded and reported under condition 14 of Part III, Section B [40 CFR 63.1981(h)]:

a. For enclosed combustors, all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with conditions 3a-f of Part III, Section B [40 CFR 63.1959(b)(2)(iii)] was determined [40 CFR 63.1983(c)(1)].

(ii) *[reserved]*

(iii) Keep records of periods when the collection system or control device is not operating [40 CFR 63.1983(c)(5)].

(iv) The date, time, and duration of each startup and/or shutdown period, recording the periods when the affected source was subject to the standard applicable to startup and shutdown [40 CFR 63.1983(c)(6)].

(v) In the event that an affected unit fails to meet an applicable standard, record the information below in this paragraph:

a. For each failure record the date, time and duration of each failure and the cause of such events (including unknown cause, if applicable).

b. For each failure to meet an applicable standard; record and retain a list of the affected sources or equipment.

c. Record actions taken to minimize emissions in accordance with the general duty of condition 1a of Part III, Section B [40 CFR 63.1955(c)] and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

[40 CFR 63.1983(c)(7)]

(vi) Owner/operator must keep the written procedures required by 40 CFR 63.8(d)(2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, Subpart AAAA, to be made available for inspection, upon request, by the District. If the performance evaluation plan is revised, the owner/operator must keep previous (*i.e.,* superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the District, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under 40 CFR 63.8(d)(2) [40 CFR 63.1983(c)(8)].

(d) Keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector [40 CFR 63.1983(d)].

(i) Each owner/operator subject to the provisions of this subpart must keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under condition 7a of Part III, Section B [40 CFR 63.1960(b)].

(ii) Keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR 63.1962(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR 63.1962(a)(3)(ii).

(e) Keep for at least 5 years up-to-date, readily accessible records of the following:

(i) All collection and control system exceedances of the operational standards in condition 2 of Part III, Section B [40 CFR 63.1958], the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

(ii) Keep records of each wellhead temperature monitoring value of greater than 62.8 degrees Celsius (145 degrees Fahrenheit

a. Each owner/operator required to conduct the enhanced monitoring provisions in § 63.1961(a)(5), must also keep records of all enhanced monitoring activities.

b. Each owner/operator required to submit the *24-hour high temperature report in* 40 CFR 63.1981(k), must also keep a record of the email transmission.

(iii) For any root cause analysis for which corrective actions are required in condition 4(a)(i) and 5a(a)(i) of Part III, Section B [40 CFR 63.1960(a)(3)(i)(A) or (a)(4)(i)(A)], keep a record of the root cause analysis conducted, including a description of the recommended corrective action(s) taken, and the date(s) the corrective action(s) were completed.

(iv) For any root cause analysis for which corrective actions are required in condition 4(a)(ii) and 5a(a)(ii) of Part III, Section B [40 CFR 63.1960(a)(3)(i)(B) or (a)(4)(i)(B)], keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

(v) For any root cause analysis for which corrective actions are required in condition 4(a)(iii) and 5a(a)(iii) of Part III, Section B [40 CFR 63.1960(a)(3)(i)(C) or (a)(4)(i)(C)], keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the District.

[40 CFR 63.1983(e)]

(f) The owner/operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system monitoring data for parameters measured in conditions 8 through 11of Part III, Section B 40 [CFR 63.1961(a)(1) through (6)].

[40 CFR 63.1983(g)]

(g) The owner/operator must keep the following records:
(i) Records of the landfill gas temperature on a monthly basis as monitored in condition 5a of Part III, Section B [40 CFR 63.1960(a)(4)].
[40 CFR 63.1983(h)]
[40 CFR 63.1983]

19. The owner/operator who has already been required to submit a design plan under 40 CFR 63.1981(d) must submit a revised Design Plan to the Administrator (District) for approval as follows:
(a) At least 90 days before expanding operations to an area not covered by the previously approved design plan.
(b) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the Administrator (District) according to 40 CFR 63.1981(d).
[40 CFR 63.1981(e)]

20. The owner/operator must submit a closure report to the Administrator (District) within 30 days of waste acceptance cessation. The Administrator (District) may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Administrator (District), no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 63.9(b). [40 CFR 63.1981(f)]

21. The owner/operator must submit an equipment removal report as provided in 40 60.757(e) to the Administrator (District) 30 days prior to removal or cessation of operation of the control equipment. The equipment removal report must contain all of the following items. The Administrator (District) may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 63.1957(b) have been met.
(a) A copy of the closure report submitted in accordance with condition 20 of Part III, Section B;
(b) A copy of the initial performance test report demonstrating that the 15-year minimum control period has expired, or information that demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flows. In the equipment removal report, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in lieu of the performance test report if the report has been previously submitted to the EPA's Central Data Exchange (CDX); and
(c) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 Mg or greater of NMOC per year. If the NMOC emission rate reports have been previously submitted to the EPA's CDX, a statement that the NMOC emission rate reports have been submitted electronically and the dates that the reports were submitted to the EPA's CDX

may be submitted in the equipment removal report in lieu of the NMOC emission rate reports.
[40 CFR 63.1981(g)]

C. This facility is subject to the following requirements as required by the District, pursuant to the original permitting under New Source Review:

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

2. All landfill gas collected from this landfill shall be directed to the flare for destruction.
[District Rule 204]

3. A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flare flame at all times. Adequate and safe access shall be provided to all sight glass windows.
[District Rule 204]

4. The owner/operator shall provide sampling ports necessary to perform source tests required to verify compliance with District rules, regulations and permit conditions. The location of these ports and platforms shall be subject to District approval.
[District Rule 217]

5. A sampling port shall be maintained at the landfill gas inlet line to allow the collection of a landfill gas sample.
[District Rule 217]

5. The flare shall be equipped with at least four thermocouples and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation.
[District Rule 204]

6. At least one of the thermocouples used to measure the flare temperature shall be above the flame and at least four feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.
[District Rule 204]

7. At all times that the flare is in operation, the owner/operator must maintain a temperature of at least 1400 degrees Fahrenheit in the flare stack 0.6 seconds downstream of the burner, except during flare start up and shout down for a period not to exceed 30 minutes in length. The temperature must be monitored and measured by the temperature indicator

and recorder and must be averaged at 15 minute intervals.
[District Rule 204]

8. The owner/operator must continuously monitor the landfill gas flow rate to the flare using a flow indicator and recorder.
[District Rule 204]

9. The owner/operator must install and maintain a pressure differential indicator across the flame arrester.
[District Rule 204]

10. Oxides of nitrogen emissions from the flare shall not exceed 0.06 pounds per MMBtu of heat input.
[District Rule 204]

11. The owner operator shall perform the following compliance tests once every twelve (12) months in accordance with the District's Compliance Test Procedural Manual. The following compliance tests are required at the maximum achievable flow rates at the time of the test (inlet refers to flare landfill gas inlet and exhaust refers to flare exhaust):
(a) Non-methane hydrocarbons in lbs/hr (inlet and exhaust);
(b) Non-methane hydrocarbons in ppmv (as hexane at 3% oxygen at the exhaust);
(c) Oxides of nitrogen in lbs/MMBtu (exhaust);
(d) PM10 in lbs/hr (exhaust);
(e) Hydrogen sulfide in lbs/hr (inlet and exhaust) [District Rule 431];
(f) Carbon dioxide as percent by volume dry (inlet and exhaust) [District Rule 407];
(g) Oxygen as percent by volume dry (inlet and exhaust);
(h) Moisture content as percent by weight (inlet and exhaust)
(i) Temperature in Fahrenheit (inlet and exhaust), and
(j) Flow rate in dscfm (inlet and exhaust)
[District Rules 204, 404, 407, 409, and 431]

The owner operator shall conduct all required compliance and certification tests in accordance with a District approved test plan. Thirty (30) days prior to the compliance certification tests the operator shall provide a written test plan for District review and approval. Written notice of the test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such tests shall be submitted to the District within forty-five (45) days after testing. All protocols, notifications, and test results must be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 204]

8. All reports, tests, results, and emissions information, shall be submitted electronically to the District at reporting@mdaqmd.ca.gov, and the California Air Resources Board (CARB) at: LMR@arb.ca.gov.
[District Rule 204]

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

PART IV
STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

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

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

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

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

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

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

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

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[District Rule 1203(D)(1)(f)(viii); 40 CFR 70.6(a)(6)(v)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating

Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[District Rule 1203(D)(1)(d)(ii); 40 CFR 70.6(a)(3)(ii)(B)]

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

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

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

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

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

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

16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[District Rule 1203(G)(3)(d); 40 CFR 70.6(f)(3)(iv)]

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

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

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

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

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

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

PART V
OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

B. OFF PERMIT CHANGES:

1. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
   (a) Permitee 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, permitee shall implement the change as follows:
      (i) Permitee 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. Permitee 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. Permitee 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. Permitee 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. Permitee 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, ABREVIATIONS, 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 SO_2 Emissions Data Protocol
40 CFR Part 75, Appendix F, Conversion Procedures
40 CFR Part 75, Appendix G, Determination of CO_2 Emissions

B. OTHER CONVENTIONS:

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

C. ABBREVIATIONS

Abbreviations used in this permit are as follows:

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

CEMS	Continuous Emissions Monitoring System
Cl_2	Chlorine
CO	carbon monoxide
CO_2	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
dscfm	dry standard cubic feet per minute
EG	Emission Guidelines
EPA	Environmental Protection Agency
FA	Flame Arrestor
FE	Flow Element
FOP	Federal Operating Program
F_2	Fluorine
GCCS	Gas Collection and Control System
g/L	grams per liter
GHG	Greenhouse Gas
HBr	Hydrogen Bromide
HCl	Hydrogen Chloride
HF	Hydrogen Fluoride
H&S Code	Health & Safety Code
HIC	Heat Input Capacity
hp	horsepower
lb/gal	pounds per gallon
lbs/MMBtu	Pounds per Million British Thermal Units
LFG	Landfill Gas
LFGCCS	Landfill Gas Collection and Control System
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MMBtu	Million British Thermal Units
MMBtu/hr	Million British Thermal Units per hour
MVAC	Motor Vehicle Air Conditioner
MSW	Municipal Solid Waste
NESHAP	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standards
PM_{10}	particulate matter less than 10 microns mean aerodynamic diameter
ppmv	parts per million by volume
psi	pounds per square inch
psia	pounds per square inch absolute
PUC	Public Utilities Commission
SEM	Surface Emissions Monitoring
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO_2	Sulfur Dioxide
SWIS	Solid Waste Information System
VOCs	Volatile Organic Compounds
VSL	Victorville Sanitary Landfill
WIP	Waste In Place

PART VII
DISTRICT RULE SIP CITATIONS AND BASIS/AUTHORITY

Rules in the SIP for the MDAQMD

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
Old SB	2	Definitions	SBC	MD 102	Bef 02/72	2/21/1972	40 CFR 52.2236(c)(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)(xv)(A)	6/14/1978	43 FR 25684
RC	51	Nuisance	RC	MD 402, 07/25/1977 via Res. 94-03	Bef 02/72	2/21/1971	40 CFR 52.220(c)(?)	5/31/1977	
RC	52	Particulate Matter - Concentration		MD 405, 07/25/1977 via Res. 94-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	52 A	Particulate Matter - Concentration	SBC			6/19/1972	40 CFR 52.220.(e)(1-2)	9/22/1972	34 FR 19812
Old SB	53A	Specific Air Contaminants				6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
RC	53	Specific Air Contaminants				6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
Old SB	53.2	Sulfur Recovery Units	SBC			6/30/1972	40 CFR 52.220.(e)(1-2)	9/22/1972	34 FR 19812
Old SB	53.3	Sulfuric Acid Units	SBC			6/30/1972	40 CFR 52.220.(e)(1-2)	9/22/1972	34 FR 19812
RC	54	Solid Particulate Matter, Weight	RC	MD 405, 07/25/1977 via Res. 94-03	Bef 06/72	6/30/1972	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 4011
Old SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknown	6/30/1972	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	56	Scavenger Plants	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
RC	58	Disposal of Solid and Liquid Wastes	RC	MD 473, 7/25/77 via Reso 04-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	58 A	Disposal of Solid and Liquid Wastes	SBC	MD 473, 07/25/77	Bef 02/72		40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	62.1	Sulfur Content of Natural Gas	SBC	None but See MD 431	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	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)	5/18/1981	46 FR 27116
Old SB	69	Vacuum Producing Devices or Systems	SBC	Fed Reg Dec. 12/21/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR3886
Old SB	70	Asphalt Air Blowing	SBC	Fed Reg Dec. 10/26/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
RC	72	Fuel Burning Equipment	RC	MD 474, 01/22/1996; MD 475 03/16/1981; and MD 476 01/22/1996 via Res. 94-03	Bef 11/79	11/19/1979	40 CFR 52.280(c)(1)(i)	5/18/1981	46 FR 27116
RC	73	Lead Content and Volatility of Gasoline	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(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 Reg Dec12/21/1994	Bef 06/72	6/30/1972	40 CFR 52.269(b)(3)(ii)(A)		
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	101	Title	SBC	7/1/1993	12/19/1998	3/26/1990	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	
MD	102	Definition of Terms				8/17/2018	40 CFR 52.220(e)(520)(i)(A)(1)	7/2/2019	84 FR 31682
MD	102	Definition of Terms		9/28/2020	(SIP Sub)	3/10/2021			
MD	103	Definition of District Boundaries		6/28/1995	Current		40 CFR 52.220(e)(224)(i)(C)(2)	6/3/1999	64 FR 29790
SB	103	Definition of Terms (Unknown rule - no record except in FR reference)	SBC	None	Bef 11/77	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 Text	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 Text	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)(F)(1)	5/26/2004	69 FR 29880
SC	107	Determination of Volatile Organic Compounds in Coating Material	RC		Bef 3/1/82	3/1/1982	40 CFR 52.220(c)(121)(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)(i)(A)(3)	8/30/1993	58 FR 45445
SC	109	Record keeping for Volatile Organic Compound Emissions	RC	None	Bef 09/92	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(6)	4/13/1995	60 FR 18751
SC	201	Permit to Construct	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	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 Text	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 Text	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 Text	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 Text	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 Text	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 Text	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 Text	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 Text	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	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 Text	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

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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	Exemtion, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
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)	2/5/1996	61 FR 4217
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	(SIP Sub)	6/21/2011			
MD	222	Limitation on Potential to Emit	MD	2/28/2011	7/31/1995	10/13/1995	40 CFR 52.220(c)(225)(i)(II)(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)(vii)(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		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	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	403	Fugitive Dust				8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	403	Fugitive Dust		9/28/2020					
MD	403.1	Respirable Particulate Matter in SVPA			11/25/1996	3/3/1997	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	2/3/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	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	8/11/1980	FR Text	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 59489
SB	406	Specific Contaminants	SBC	2/20/1979	7/25/1977		40 CFR 52.220(c)(42)(iii)(A)	12/21/1978	43 FR 59489
SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res. 94-03	4/2/1982	8/6/1982	40 CFR 52.220(c)(124)(iv)(A)	11/10/1982	47 FR 50864
SB	407	Liquid and Gaseous Air Contaminants	SBC	7/25/1977	G-73		40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	408	Circumvention	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(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)(ii)(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)(ii)(B)	9/8/1978	43 FR 40011
MD	431	Sulfur Content of Fuels	MD	9/28/2020	(SIP Sub)	6/10/2021			
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431	5/6/1983	7/19/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of fossil Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	432	Gasoline Specifications		7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	432	Gasoline Specifications	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	442	Usage of Solvents	MD	2/27/2006	Current	10/5/2006	40 CFR 52.220(c)(347)(i)(C)(1)	9/17/2007	72 FR 52791
SC	443	Labeling of Solvents	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	443	Labeling of Solvents				6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	444	Open Fires		9/25/2006	Current	5/8/2007	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
MD	461	Gasoline Transfer and Dispensing	MD			7/13/1994	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(3)	5/1/2020	85 FR 25293
MD	462	Organic Liquid Loading	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(4)	5/1/2020	85 FR 25293
MD	463	Storage of Organic Liquids	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(5)	5/1/2020	85 FR 25293
MD	464	Oil Water Separators		6/12/2014	Current	11/16/2014	40 CFR 52.220(c)(457)(i)(B)(1)	6/5/2015	80 FR 32026
SC	465	Vacuum Producing Devices or Systems	RC	Rescinded & Fed. Reg. Dec 12/21/1994	Bef 5/91	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35759
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed. Reg. Dec 12/21/1994	Not SIP	12/29/1994	40 CFR 52.222(a)(1)(iii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Bef 12/83	12/2/1983	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	11/30/1994	40 CFR 52.220(c)(39)(ii)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None	5/2/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	469	Sulfuric Acid Units		7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)		
MD	471	Asphalt Roofing Operations		12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(210)(i)(C)(2)	2/29/1996	61 FR 7706
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	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)(ii)(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)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Bef 11/96	11/26/1996	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25 1997	Current	3/10/1998	??	??	??
MD	475	Electric Power 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

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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	40 CFR 52.220(c)(51)(iii)(A)	1/27/1981	46 FR 8471
SC	481	Spray Coating Operations	RC	1113, 1114, 1115 & 1116	5/5/1978	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	501	General	RC	6/10/2019	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	900	Standards of Performance for New Stationary Sources	MD	2/25/2019	Delegated				
MD	1000	National emissions Standards fro Hazardous Air Pollutants	MD	2/25/2019	Delegated				
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None	4/4/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
MD	1102	Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations	MD	10/26/1994	Current	11/30/1994	40 CFR 52.220(e)(207)(i)(D)	9/27/1995	60 FR 49772
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None	12/7/1990	5/31/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None	4/6/1980	4/23/1980	40 CFR 52.220(c)(69)(iii)	7/8/1982	47 FR 29668
MD	1103	Cutback and Emulsified Asphalt	MD	12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(207)(i)(C)(1)	2/5/1996	61 FR 4215
SC	1104	Wood Flat Stock Coating Operations (SC Amended 8/2/91)		None	3/1/1991	10/25/1991	40 CFR 52.220(c)(186)(i)(C)(1)	6/23/1994	59 FR 32354
MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(i)(A)(1)	7/2/2019	84 FR 31682
SC	1105	Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84)	R/	None	9/8/1984	2/6/1985	40 CFR 52.220(c)(159)(iv)(C)	7/12/1990	55 FR 28625
MD	1106	Marine & Pleasure Craft Coating Operations	MD	10/24/2016	Current	Aft 10/2016	40 CFR 52.220(c)(498)(i)(B)(1)	2/12/2018	83 FR 5940
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations	RC	None	9/6/1991	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66285
SC	1108	Cutback Asphalt	RC	None	2/1/1985	4/12/1985	40 CFR 52.220(c)(160)(i)(E)(1)	7/12/1990	55 FR 28624
SC	1108.1	Emulsified Asphalt	RC	None	Bef 3/84	3/14/1984	40 CFR 52.220(e)(153)(vii)(A)	1/24/1985	50 FR 3339
SC	1110	Emissions from Stationary Internal Combustion Engines	RC	None	Bef 3/82	3/1/1982	40 CFR 52.220(c)(121)(i)(C)	5/3/1984	47 FR 18822
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None	Bef 10/83	10/27/1983	40 CFR 52.220(e)(148)(vi)(A)	5/3/1984	49 FR 18830
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None	1/6/1984	4/12/1984	40 CFR 52.220(c)(154)(vii)(B)	1/7/1986	51 FR 600
SC	1113	Architectural Coatings	RC		Bef 7/84	7/10/1984	40 CFR 52.220(e)(155)(iv)(A)	1/24/1985	50 FR 3339
MD	1113	Architectural Coatings	MD	4/23/2012	4/23/2012	2/6/2013	40 CFR 52.220(e)(428)(i)(C)(1)	1/3/2014	79 FR 365
MD	1113	Architectural Coatings	MD	10/26/2020	(SIP Sub)	6/10/2021			
MD	1114	Wood Products Coating Operations	MD	8/24/2020	Current	11/18/2020	40 CFR 52.220(c)(558)(i)(a)(1)	7/28/2021	86 FR 40335
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None	3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(1)	12/20/1993	58 FR 66282
MD	1115	Metal Parts & Products Coating Operations				5/23/2018	40 CFR 52.220(c)(518)(i)(A)(2)	2/27/2020	85 FR 11812
MD	1115	Metal Parts & Products Coating Operations	MD	6/8/2020	(SIP Sub)	5/23/2018		5/20/2021	86 FR 27341
MD	1116	Automative Refinishing Operations	MD	8/23/2010	Current	4/5/2011	40 CFR 52.220(c)(388)(i)(F)(1)	8/19/2012	77 FR 47536
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None	SC 1/6/1984	12/3/1984	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
MD	1117	Graphic Arts	MD			7/20/2010	40 CFR 52.220(c)(381)(i)(H)(1)	3/1/2012	77 FR 12495
MD	1117	Graphic Arts	MD	8/24/2020	(SIP Sub)	11/17/2020			
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD			4/21/2016	40 CFR 52.220(e)(485)(i)(B)(1)	6/21/2017	82 FR 28240
MD	1118	Aerospace Assembly, Reqork and Component Manufacturing Operations	MD	6/8/2020	(SIP Sub)	11/17/2020			
SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None	3/2/1979	7/25/1980	40 CFR 52.220(c)(88)(iii)(A)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None	8/4/1978	7/25/1980	40 CFR 52.220(c)(65)(ii)	9/28/1981	46 FR 47451
SC	1121	Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters			12/1/1978	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1122	Solvent Metal Cleaners (Degreasers)		None	7/8/1983				
SC	1123	Refinery Process Turnaround	RC	None	SC 12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35758
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None	1/6/1984	4/19/1984	40 CFR 52.220(c)(154)(vii)(A)	1/24/1985	50 FR 3339
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None	SC 8/2/1991	5/13/1993	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17898
SC	1126	Magnet Wire Coating Operations	RC	None	SC 3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(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	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66287
SC	1130	Graphic Arts	RC	None	Bef 5/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(2)	4/14/1994	59 FR 17698
SC	1136	Wood Furniture and Cabinet Coatings	RC	None	Bef 5/92	5/13/1992	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17698
SC	1140	Abrasive Blasting	RC		2/1/1980	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None	SC 4/3/1992	9/19/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66286
SC	1141.1	Coatings and Ink Manufacturing	RC	None	11/4/1983	3/14/1984	40 CFR 52.220(e)(153)(vii)(B)	1/24/1985	50 FR 3339
SC	1141.2	Surfactant Manufacturing	RC	None	SC 7/6/1984	10/19/1984	40 CFR 52.220(c)(156)(vii)(A)	1/15/1987	52 FR 1627
SC	1142	Marine Tank Vessel Operations	RC	None		1/28/1992	40 CFR 52.220(c)(187)(i)(C)(1)		
SC	1145	Plastic, Rubber and Glass Coatings	RC	None	SC 1/10/1992	1/11/1993	40 CFR 52.220(e)(191)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1148	Thermally Enhanced Oil Recovery Wells	RC	None	Bef 10/1983	10/27/1983	40 CFR 52.220(e)(148)(vi)(B)	??	??
SC	1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations	RC	None	Bef 5/13/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1153	Commercial Bakery Ovens	RC	None	SC 1/4/1991	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(3)	9/29/1993	58 FR 50850
MD	1157	Boilers and Process Heaters	MD	1/22/2018	5/19/1997	8/1/1997	40 CFR 52.220(e)(248)(i)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/22/2018	(SIP Sub)	5/23/2018			
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None	SC Bef 5/93	3/14/1984	40 CFR 52.220(e)(153)(vii)(B)	1/15/1987	52 FR 1627
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	8/25/1997	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(2)	7/20/1999	64 FR 38832
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	(SIP Sub)	11/13/2017			
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None	SC 12/6/1985	2/10/1986	40 CFR 52.220(c)(168)(I)(H)	7/12/1990	55 FR 28622
MD	1159	Stationary Gas Turbines	MD	9/28/2009	Current	5/17/2010	40 CFR 52.220(c)(379)(i)(E)(1)	10/25/2012	77 FR 65133

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MD	1160	Internal Combustion Engines	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(518)(i)(A)(7)	9/10/2021	86 FR 50643
MD	1161	Portland Cement Kilns	MD			6/18/2002	40 CFR 52.220(c)(300)(i)(A)(1)	2/27/2003	68 FR 9015
MD	1161	Portland Cement Kilns	MD	1/22/2018	(SIP Sub)	5/23/2018			
MD	1162	Polyester Resin Operations	MD	1/22/2018	8/27/2007	3/7/2008	40 CFR 52.220(c)(354)(i)(B)(1)	11/24/2008	73 FR 70883
MD	1162	Polyester Resin Operations	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(519)(i)(A)(1)	2/27/2020	85 FR 11812
SC	1164	Semiconductor Manufacturing Operations	RC	None	Bef 10/1993			10/26/1993	58 FR 48459
MD	1165	Glass Melting Furnaces	MD	8/12/2008	Current	12/23/2008	40 CFR 52.220(c)(364)(i)(D)(1)	7/2/2012	77FR 39181
MD	1168	Adhesive & Sealant Applications	MD	4/27/2020	(SIP Sub)	7/23/2020			
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	6/19/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR 66285
SC	1173	Fugitive Emissions of Volatile Organic Compounds		None	12/7/1990	6/18/1992	40 CFR 52.220(c)(188)(i)(c)(1)	12/20/1993	58 FR 66285
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC	None	SC Bef 5/91	??	40 CFR 52.220(c)(182)(i)(A)(1)	??	??
SC	1176	Sumps and Wastewater Separators	RC	None	Bef 12/1990	12/31/1990	40 CFR 52.220(c)(182)(i)(A)(1)	10/26/1992	57 FR 48459
MD	1200	General (Federal Operating Permit)	MD	2/28/2011					
MD	1201	Definitions (Federal Operating Permit)	MD	9/26/2005					
MD	1202	Applications	MD	9/26/2005					
MD	1203	Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1205	Modifications of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1206	Reopening, Reissuance and Termination of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1207	Notice and Comment (Federal Operating Permit)	MD	9/26/2005					
MD	1208	Certification (Federal Operating Permit)	MD	9/26/2005					
MD	1209	Appeals (Federal Operating Permit)	MD	9/26/2005					
MD	1210	Acid Rain Provisions of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1211	Greenhouse Gas Provisions of Federal Operating Permits (Federal Operating Permit)	MD	2/28/2011					
MD	1300	General	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1300	General	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1301	Definitions	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1302	Procedure	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure		3/22/2021	(SIP Sub)	7/22/2021			
MD	1303	Requirements	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1304	Emissions Calculations	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Emissions Calculations	MD		(SIP Sub)	7/22/2021			
MD	1305	Emissions Offsets	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1306	Electric Energy Generating Facilities			3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities		3/22/2021	(SIP Sub)	7/22/2021			
MD	1310	Federal Major Facilities and Federal Major Modifications		Rescinded 3/22/21	(SIP Sub)	7/22/2021			
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1401	Definitions (Emissions Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1402	Emission Reduction Credits Registry	MD		6/28/1995	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1520	Control of Toxic Air Contaminants From Existing Sources	MD	3/25/2019	(SIP Sub)				
MD	1600	Prevention of Significant Deterioration	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	2001	Transportation Conformity	MD	2/22/1995	??				
MD	2002	General Federal Actions Conformity	MD	10/26/1994	Current	5/10/1996	40 CFR 52.220(c)(231)(i)(C)(1)	4/23/1999	64 FR 19916
MD	FND	Fed. Neg. Dec. - Asphalt Air Blowing	MD		Current	12/20/1994	40 CFR 52.222(a)(1)(ii)	9/11/1995	60 FR 47074
MD	FND	Fed. Neg. Dec. - Air Oxidation Process - SOCMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	12/29/1994		1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Industrial Wastewater	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Large Petroleum Dry Cleaners	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	SBC	5/25/1994	Current	7/13/1994	40 CFR 52.222(a)(1)(i)	1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Offset Lithography	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Orchard & Citrus Heaters	MD	6/24/1996	??				
MD	FND	Fed. Neg. Dec. - Petroleum Refinery Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153

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MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (other)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Pheumatic Rubber Tire Manufacturing	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. - Polymer Manufacturing SOCMI and Polymer manufacturing Equipment Leaks	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Process Unit Turnarounds	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOCMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Ship Building	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Surface Coating of Cans	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. - Surface Coating of Coils	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. - Surface Coating of Fabrics	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. - Surface Coating of Large Appliances	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. - Surface Coating of Magnet Wire	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. - Surface Coating Operations at Automotive and Light Duty Truck Assembly 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. - Synthesized Pharmaceutical Products	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. - Synthetic Organic Chemical Manufacturing Batch Processing	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing	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. - Vacuum Producing Devices	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 - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportation and Business Machine Plastic Parts	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii)	2/27/2020	85 FR 11812
MD	FND	Fed Neg Dec - 1 CTG for Miscellaneous Metal and Plastic Parts Coatings (EPA–453/R–08–003), Table 6—Motor Vehicle Materials	MD	10/22/2018	Current	12/7/2018	40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix)	2/27/2020	85 FR 11812
MD	Title V	Program - Federal Operation Permits Title V					40 CFR 70 Apx. A California (q)(2)	12/17/2001	66 FR 63503