

**PART 70 OPERATING PERMIT FACT SHEET  
QUARANTINE ROAD SANITARY LANDFILL  
6100 QUARANTINE ROAD  
BALTIMORE, MARYLAND 21226  
PART 70 OPERATING PERMIT NO. 24-510-02293**

**BACKGROUND**

The Quarantine Road Sanitary Landfill (QRSL) is a 149-acre municipal solid waste (MSW) landfill with a primary SIC code of 4953 (2012 NAIC Code of 562212). The site also includes an area of 126 acres that has been permitted for additional MSW disposal. The landfill is located on Quarantine Road in the Hawkins Point section of Baltimore, Maryland. The QRSL facility is owned and operated by the City of Baltimore Department of Public Works. The landfill began accepting MSW in 1985. The landfill has a design capacity of 21.43 million tons which exceeds the 2.75 million tons threshold established in the NSPS regulation. The landfilled waste is typically 44% ash and 56% MSW.

Currently a landfill gas (LFG) collection and control system (GCCS) is not required as the landfill's annual non-methane organic compounds (NMOC) emission rate is less than 50 Mg/yr (55 tons/yr). A GCCS was voluntarily installed and started operations in May 2009. The landfill NMOC emissions will be below the threshold limit through 2022 and will be reevaluated every five years.

Site-specific NMOC concentrations were based on the Tier 2 testing. The average NMOC concentration at the landfill is 69.1 ppmv as hexane. The GCCS sends LFG to a utility flare for combustion and/or sends LFG to a gas treatment system where LFG is compressed, dried, and filtered. Normal operation of the GCCS and gas treatment system consists of LFG processed by the treatment system for delivery off site and excess LFG combusted by the utility flare.

Since the GCCS installation in May 2009, the landfill is no longer the primary source of air emissions. Although the installation of the GCCS has greatly decreased the amounts of fugitive HAP, VOC, and NMOC emissions, the addition of the flare has added NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and CO due to the combustion of LFG.

Due to its design capacity (19.48 million megagrams or 21.43 million tons of MSW), the QRSL is subject to the State of Maryland Emission Guidelines (EG) regulations for MSW (COMAR 26.11.19.20, "Control of Landfill Gas Emissions from Municipal Solid Waste Landfills").

The permitted design capacity was increased to greater than 2.75 million tons after May 30, 1991 and, therefore, the landfill is regulated according to the New Source Performance Standards (NSPS) in 40 CFR Part 60. A landfill is automatically subject to Part 70 operating permit requirements, if it has a design capacity of at least 2.5 million megagrams (2.75 million tons), regardless of whether it is a major stationary source. QRSL has a design capacity which is greater than the 2.75 million tons threshold, making it subject to the Title V permitting requirements. The

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refuse-in-place from waste accepted through December 31, 2017 is 5,769,357 tons.

EPA promulgated national emission standards for hazardous air pollutants (NESHAP) for existing and new municipal solid waste (MSW) landfills- 40 CFR Part 63 - Subpart AAAA. QRSL is subject to these maximum achievable control technology (MACT) requirements because it is a MSW landfill that has accepted waste since November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. QRSL must comply with the MACT requirements when the facility NMOC emissions exceed 50 Mg/year. The reported NMOC generation rate in the annual certification report was around 11.0 tpy assuming an NMOC concentration of 69.1 ppm [from sampling performed on May 8, 2017]. The facility projected an NMOC generation rate in 2022 to be around 14.2 ton/yr using the Landfill gas emission model (LandGEM) and the NMOC concentration (69.1 ppm from sampling). The NMOCs are collected by a gas collection and control system and are sent off-site with the excess being destroyed by one (1) candlestick flare, with approximately 98% destruction efficiency.

The current Title V permit for QRSL will expire on November 30, 2018. On November 30, 2017 the Department received a Part 70 renewal permit application for the Quarantine Road Sanitary Landfill. An administrative completeness review was conducted and the application was deemed to be complete. The completeness determination letter was sent on December 11, 2017 granting the facility an application shield.

The following table summarizes the emission calculation and projected actual facility-wide emissions for the year 2022, as shown in the Title V application.

**Table 1: Projected Emissions**

Year	NO <sub>x</sub> (TPY)	SO <sub>x</sub> (TPY)	PM <sub>10</sub> (TPY)	CO (TPY)	NMOC (TPY)	VOC (TPY)
2022	20.3	4.7	5.1	110.3	0.4	0.2

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**Table 2: Summary of projected NMOC generation rates\***

Year	NMOC (Mg/yr)
2018	11.7
2019	12.4
2020	13.0
2021	13.6
2022	14.2

\*NMOC emissions are reported in the Title V application using default values in the LandGEM model.

Baltimore City is located in Area III, which is classified as an ozone nonattainment area. The major source thresholds for triggering Title V permitting for this area under Part 70 rule are the potential to emit of 25 tons per year for volatile organic compounds (VOCs) and nitrogen oxides (NOx), and 100 tons per year for any other criteria pollutants and 10 tons per year for a single hazardous air pollutant (HAP) or 25 tons per year for total HAPs.

**MACT**

EPA promulgated national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills – 40 CFR Part 63 - Subpart AAAA. The QRSL is subject to these MACT requirements because it is a MSW landfill that has accepted waste after November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. The QRSL must comply with the MACT requirements when facility emissions exceed 50 Mg/year.

**CAM Analysis**

Quarantine Road Sanitary Landfill conducted a Compliance Assurance Monitoring (CAM) analysis for the facility and determined that the facility is not subject to the CAM Rule 40 CFR Subpart 64. CAM is not applicable because the QRSL is subject to an emissions limitation that was proposed by the EPA administrator after November 15, 1990 pursuant to Sections 111 or 112 of the Clean Air Act (specifically the facility is subject to the Emissions Guidelines for Municipal Solid Waste Landfills – 40 CFR Subpart Cc).

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**GREENHOUSE GAS (GHG) EMISSION STATEMENT**

There are no greenhouse gas related Clean Air Act requirements applicable to Quarantine Road Sanitary Landfill, and it has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions.

The QRSL emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide and methane. These GHGs originate from various processes (i.e., waste decomposition and landfill gas fugitives) contained within the facility premises applicable to QRSL. The facility has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements. As a brand new facility, GHGs were based on emission estimates using default data entered in the US EPA LandGEM model, version 3.02 (see Table 3 shown below). Future emission certifications will show more accurate levels once site specific data are gathered in the future years. Furthermore, the Permittee shall quantify facility wide GHG emissions and report them in accordance with Section 3 of the Part 70 permit.

The following table summarizes the actual emissions from QRSL based on emission estimates using the LandGEM model and information submitted in the Part 70 Permit Application:

**Table 3: Greenhouse Gases Emissions Summary**

<b>GHG</b>	<b>Conversion factor</b>	<b>2016 tpy CO2e</b>
Carbon dioxide, CO <sub>2</sub>	1	4,471
Methane, CH <sub>4</sub>	25	5,952
<b>Total GHG, CO<sub>2</sub>eq</b>		<b>10,423</b>

Note: the N<sub>2</sub>O, HFCs, PFCs, and SF<sub>6</sub> emissions from fugitive LFG are not quantified due to the absence of AP-42 emission factors.

**EMISSION UNIT IDENTIFICATION**

Municipal solid waste (MSW) landfills produce a large volume of gas that consists primarily of methane and carbon dioxide. Landfill gas also contains water vapor and a small amount of non-methane organic compounds (NMOC). The NMOC include Hazardous Air Pollutants (HAPs), odorous compounds, and Volatile Organic Compounds (VOCs), which are photochemically reactive and

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contribute to summertime ozone formation, which can result in adverse effects to human health and vegetation.

Particulate matter emissions can be generated in the form of fugitive dust created by landfill operations and mobile sources, such as garbage trucks traveling along paved and unpaved surfaces.

The Quarantine Road Sanitary Landfill has identified the following emission units as being subject to the Title V permitting requirements and having applicable requirements.

**Table 4: Emission Unit Identification**

<b>MDE Registration Number</b>	<b>Emissions Unit Number</b>	<b>Emissions Unit Description</b>	<b>Date of Registration</b>
EU-1	9-1150	One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons.	August 1985
EU-2	9-1164	One (1) 3,000 scfm utility flare to combust excess LFG. Flare was installed as part of the LFG collection and control system.	May 2009

**AN OVERVIEW OF THE PART 70 PERMIT**

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance

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provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

### **REGULATORY AND TECHNICAL REVIEW/COMPLIANCE METHODOLOGY**

#### **Emission Unit Number: EU-01, Table 1**

One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons. [9-1150]

The landfill covers 126-acres, began operation in 1985 and presently ongoing. The landfill consists of six cells with Cell 6 divided into two "sub-cells". Cells 1 through 6, Phase I have all received MSW material, and has been accepting both ash and MSW, typically 44 percent to 56 percent, respectively. It incorporates a LFG collection system (GCCS), with treated gas sent off-site, and excess being combusted in a utility flare.

#### **Applicable Standards and Limits**

Quarantine Road Sanitary Landfill is subject to the testing, record keeping, and reporting requirements indicated below.

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**Compliance Demonstration**

“If the resulting NMOC mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the emission rate report as provided in §60.757(b)(1) and retest the site-specific NMOC concentration every 5 years using the methods specified in this section.” **[Reference: 40 CFR §60.754(a)(3)(iii)]**

The Permittee shall keep all the records required under this permit for at least five years and shall make such records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

If the Permittee increases the maximum design capacity of the Quarantine Road Landfill after November 1, 1997, the Permittee shall amend and resubmit the design capacity report within 90 days of the issuance of an air quality Permit to Construct or a permit from the MDE Land Management Administration that authorizes the increase or any other change that increases the maximum design capacity of the landfill. **[Reference: COMAR 26.11.19.20D(2)]**

The Permittee shall estimate the annual NMOC emission rate calculated using the formula and procedures as described in 40 CFR §60.754(a). The Permittee shall prepare and submit an updated NMOC emission rate report by November 1 of each year. A less frequent emission rate report may be submitted upon approval by the Department in accordance with COMAR 26.11.19.20D(6). **[Reference: COMAR 26.11.19.20D(3)(a) & COMAR 26.11.19.20D(6)]**

The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. Such report shall be submitted by April 1 of each year for the previous calendar year. **[Reference: COMAR 26.11.19.20D(7)]**

**Emission Unit: EU-1, Table 1A**  
Municipal Solid Waste (MSW) Landfill  
MDE Registration No. 9-1150

**Applicable Standards and Limits:**

**The Quarantine Road Sanitary Landfill will be subject to the following requirements, if calculated NMOC emissions increase to 55 tons per year or more:**

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**A. Standards for Air Emissions**

**[Reference: 40 CFR 60.752]**

(1) The Permittee shall ensure that the gas collection and control system satisfies the requirements for an active collection system as provided for in §60.752(b)(2)(ii)(A)(1) through (4). The Permittee shall install the gas collection and control system according to the specifications in §60.759.

**[Reference: 40 CFR 60.752(b)(2)(ii)(A) and 60.757]**

(2) The Permittee shall route all the collected landfill gas to a control system designed and operated to reduce nonmethane organic compounds (NMOC) by 98 weight-percent as provided for in §60.752(b)(2)(iii)(B). **[Reference: 40 CFR 60.752(b)(2)(iii) and (iii)(B)]**

(3) The Permittee may cap or remove the collection and control system provided that all the conditions of §60.752(b)(2)(v)(A) – (C) are met. The NMOC gas produced by the landfill shall be calculated following the procedures specified in §60.754(b). **[Reference: 40 CFR 60.752(b)(2)(v)]**

(4) When the landfill is closed, the Permittee is no longer subject to the requirement to maintain an operating permit under part 70 for the landfill if the landfill is not otherwise subject to the requirements of part 70 and if either of the conditions in §60.752(b)(1) and (2) are met. **[Reference: 40 CFR 60.752(b)]**

(5) The Permittee shall not cause or allow any material to be handled, transported, or stored; or a building, its appurtenances; or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

**[Reference: COMAR 26.11.06.03D(2)]**

Compliance

**[Reference: 40 CFR 60.754 and 755]**

The Permittee shall use the specified methods in paragraphs (a)(1) through (a)(6) of §60.752(b)(2)(i)(B) to determine whether the gas collection system is in compliance with §60.752(b)(2)(ii). **[Reference: 40 CFR §60.755(a)]**

After the installation of a collection and control system in compliance with §60.755, the owner or operator shall calculate the NMOC emission rate for purposes of determining when the system can be removed as provided in §60.752(b)(2)(v), using the equation provided in §60.752(b)(2)(v): **[40 CFR §60.754(b)]**. The Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing existing and planned collector in the system and providing a unique identification location label for each collector in accordance with §60.758(d)]. The Permittee shall submit an

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equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment in accordance with 40 CFR §60.757(e). The Permittee shall submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator 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, no additional wastes may be placed into the landfill without filing a notification of modification as described under §60.7(a)(4).” **[Reference: 40 CFR §60.757(d)]**

**B. Operational Standards**

**[Reference: 40 CFR 60.753]**

(1) The Permittee shall operate the gas collection and control system such that landfill gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active; or 2 years or more if closed or at final grade. **[Reference: 40 CFR 60.752(b)(2)(ii)(A)(2) and 60.753(a)]**

(2) The Permittee shall operate the collection system with negative pressure at each wellhead except under the conditions specified in §60.753(b)(1) – (3). **[Reference: 40 CFR 60.753(b)]**

(3) The Permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55o C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The Permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well as provided for in §60.753(c). **[Reference: 40 CFR 60.753(c)]**

(4) The Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill as provided for in §60.753(d). **[Reference: 40 CFR 60.753(d)]**

(5) In the event the collection or control system is inoperable, the Permittee shall shut down the gas mover system and shall close, within one hour, all valves in the collection and control system contributing to venting of the gas to the atmosphere. **[Reference: 40 CFR 60.753(e)]**

(6) The Permittee shall operate the control or treatment system at all times when the collected gas is routed to the system. **[Reference: 40 CFR 60.753(f)]**

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(7) The Permittee shall take corrective action as specified in §60.755(a)(3) through (5) or §60.755(c) of 40 CFR 60, Subpart WWW if monitoring demonstrates that the operational requirements in §60.753(b), (c), or (d) are not met. If corrective actions are taken as specified in §60.755, the monitored exceedance is not a violation of the operational requirements in §60.753. **[Reference: 40 CFR 60.753(g)]**

(8) The Permittee shall take reasonable precautions, including the application of water on unpaved roads and other surfaces, to prevent particulate matter from becoming airborne. **[Reference: COMAR 26.11.06.03D(2)]**

Compliance

The Permittee seeking to comply with §60.752(b)(2)(ii)(A) for an active gas collection system shall follow the procedures listed in 40 CFR §60.756(a). For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with §60.752(b)(2)(ii)(A)(3), the Permittee shall follow the procedures listed in **40 CFR §60.755(a)(3)**. The Permittee shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in §60.756 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 in accordance to the procedures listed in **40 CFR §60.758(c)**. The Permittee seeking to comply with reporting requirements shall follow the procedures listed in **40 CFR §60.757(f)**.

The nitrogen level shall be determined as prescribed in §60.753(c)(1) and the oxygen level shall be determined as prescribed in §60.753(c)(2).

**[Reference: 40 CFR §60.753(c)]**. For the purpose of seeking compliance with §60.752(b)(2)(ii)(A), the Permittee shall follow the procedures listed in §60.755(a)(5) in accordance to 40 CFR §60.756(a). For the purpose of identifying whether the excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in §60.753(c), and in accordance to the procedures listed in **40 CFR §60.755(a)(5)**. For the purpose of demonstrating compliance with the record keeping requirements, the Permittee shall follow the procedures listed in **40 CFR §60.758(c)**. The Permittee shall submit an equipment removal report in accordance to the procedures listed in **40 CFR §60.757(d)**. The Permittee seeking to comply with reporting requirements shall follow the procedures listed in **40 CFR §60.757(f)**.

For the purpose of demonstrating compliance with surface methane operational standards as provided in §60.753(d), the Permittee shall follow

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the procedures described in **40 CFR § 60.755(c)**, **40 CFR § 60.755(d)**, **40 CFR, § 60.755(c)(4)**, **40CFR §755(c)(5)**, and **40 CFR §756(f)**. For the purpose of demonstrating compliance with the record keeping requirements, the Permittee shall follow the procedures listed in **40 CFR §60.758(c)**. The Permittee seeking to comply with reporting requirements shall follow the procedures listed in **40 CFR §60.757(f)**.

“The Permittee shall record instances when positive pressure occurs in effort to avoid a fire following procedures in accordance to **40 CFR §60.753(b)(1)**. The Permittee seeking to comply with reporting requirements shall follow the procedures listed in **40 CFR §60.757(f)**.

The Permittee seeking to comply with reporting requirements shall follow the procedures listed in **40 CFR §60.757(f)**.

The Permittee shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in §60.756 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 in accordance to **40 CFR §60.758(e)**.

**C. Control of Nitrogen Oxides Emissions**

**COMAR 26.11.09.08B(5) – Operator Training.**

(a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.

(b) The operator-training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**COMAR 26.11.09.08J – Requirements for Industrial Furnaces and Other Miscellaneous Installations that Cause Emissions of NO<sub>x</sub>.**

“A person who owns or operates any installation other than fuel-burning equipment that causes NO<sub>x</sub> emissions shall:

- (1) Maintain good operating practices as recommended by the equipment vendor to minimize emissions;
- (2) Prepare and implement a written in-house training program for all operators of these installations that include instruction on good operating and maintenance practices for the particular installation;
- (3) Maintain and make available to the Department, upon request, the written in-house operator training program;
- (4) Burn only gas in each installation, where gas is available, during the period May 1 through September 30 of each year; and

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(5) Maintain operator training attendance records for each operator at the site for at least 2 years and make these records available to the Department upon request.”

Compliance

The Permittee shall maintain good operating practices as recommended by the equipment vendor to minimize NOx emissions. **[Reference: COMAR 26.11.09.08J(1)]** The Permittee shall continue implementing the existing written in-house training program for all operators of these installations that include instruction on good operating and maintenance practices for the particular installation. (Note: COMAR 26.11.09.08B(5)(a) states that “for the purpose of this regulation the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operations.” The Permittee shall maintain the written in-house operator-training program and operator training attendance records for each operator at the site for at least 2 years. The Permittee shall make available the Department, upon request, the written in-house operator-training program and records of operator training attendance. **[Reference: COMAR 26.11.09.08J(2)]**

**D. Other Requirements**

The provisions of 40 CFR 60, Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed one (1) hour for treatment or control devices. **[Reference: 40 CFR 60.755(e)]**

Compliance

The Permittee shall demonstrate compliance with the testing requirements by following the procedures listed under Record Keeping and Reporting Requirements in Section 1.4 and 1.5. The monitoring requirements should be implemented following the recommendations listed under Record Keeping and Reporting Requirements in Section 1.4 and 1.5. Record Keeping requirements are listed in Section 1.4. as, “(1) Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §60.752(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. **[Reference: 40CFR 60.758(a)]** (2) Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for 5 years up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are

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exceeded. **[Reference: 40 CFR 60.758(c)]** (3) The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under §60.756.” **[Reference: 40 CFR 60.758(c)(2)]**

To comply with reporting requirements, the Permittee shall submit an annual NMOC emission rate report to the Administrator. The report is due on the anniversary of the Permittee’s initial submittal of the NMOC report as required in 40 CFR 60.757(b). **[Reference: 40 CFR 60.757(b) and 40 CFR 60.757(b)(3)]**

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**Emission Unit: EU-1, Table 1B**

**Applicable Standards/Limits:**

**The Quarantine Road Sanitary Landfill will be subject to the following requirements, if calculated NMOC emissions increase to 55 tons per year or more:**

**Subpart AAAA – National Emission Standard for Hazardous Air Pollutants: Municipal Solid Waste Landfills.**

**Applicability**

“You are subject to this subpart if you own or operate a MSW landfill that has accepted since November 8, 1987 or has additional capacity for waste disposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section: (3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m<sup>3</sup>) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR part 60, subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.” **[Reference: 40 CFR §63.1935(a)(3)]**

“If your landfill is an existing affected source and is an area source meeting the criteria in §63.1935(a)(3), you must comply with the requirements in §§63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies

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to your landfill or by January 16, 2004, whichever occurs later.” [Reference: 40 CFR §63.1945(f)]

**Standards**

“If you are required by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in §§63.1960 through 63.1985 and with the general provisions of this part specified in table 1 of this subpart.” [Reference: 40 CFR §63.1955(b)]

**General and Continuing Compliance Requirements**

“Compliance is determined in the same way it is determined for 40 CFR Part 60, subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, you must develop and implement a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write, implement, or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.” [Reference: 40 CFR §63.1960]

**Compliance**

“Keep records and reports as specified in 40 CFR Part 60, Subpart WWW, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in 40 CFR 60.757(f) every 6 months.” [Reference: 40 CFR §63.1980(a)]

“You must also keep records and reports as specified in the general provisions of 40 CFR Part 60 and this part as shown in Table 1 of this subpart. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.” [Reference: 40 CFR §63.1980(b)]

---

**Emission Unit: EU-02**

Flare System: One (1) 3,000 scfm Perennial utility flare was installed in May 2009. Normal operation sends LFG to the treatment facility that directs treated gas off-site for beneficial use. The excess LFG is combusted in this flare. [9-1164]

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**Applicable Standards and Limits**

**A. Control of Visible Emissions**

(1) Control of Visible Emissions for grinding process

**[COMAR 26.11.06.02C(2)]** – Visible Emission Standards.

“In Areas III and IV, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is visible to human observers.”

**[COMAR 26.11.06.02A(2)]** – Exception.

“The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.”

**Compliance Demonstration**

The Permittee shall properly operate and maintain the horizontal grinder in a manner to minimize visible emissions. **[Reference: COMAR 26.11.06.02C(2)]**

The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, “Report of Excess Emissions and Deviations.

**B. Operational Standards**

**[Reference: 40 CFR Part 60.752(b)]**

“(2) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:

(iii) Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.

(A) An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e)”

**Compliance Demonstration**

**[Reference: 40 CFR Part 60.756(c)]**

Each owner or operator seeking to comply with §60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(2) A device that records flow to or bypass of the flare. The owner or operator shall either:

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- (i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or
- (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame monitoring as specified under §60.756(c) for open flares and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service. **[Reference: 40 CFR 60.758(b)(4) and MDE ARMA/AQPP Letter, October 2, 1995].**

The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed. **[Reference: 40CFR 60.758(b)]**

**COMPLIANCE SCHEDULE**

The Quarantine Road Sanitary Landfill is currently in compliance with all applicable air quality requirements.

**TITLE IV - ACID RAIN**

The Acid Rain Program does not apply to the Quarantine Road Sanitary Landfill.

**TITLE VI - OZONE DEPLETING SUBSTANCES**

The facility is currently complying with the applicable federal requirements in 40 CFR 82, 82.34(a); 82.42(a)(1); 82.42(b)(1), (2).

**SECTION 112 (r) - ACCIDENTAL RELEASE**

The facility is not subject to the requirements of Section 112 (r) of the Clean Air Act.

**PERMIT SHIELD**

The Quarantine Road Sanitary Landfill did not request a permit shield.

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**INSIGNIFICANT ACTIVITIES**

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) 1 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

One (1) Power Pro 40 (Model No. SDG40S-8B1) diesel fired emergency generator rated at 49 HP.

The engine is subject to the following requirements:

- (A) COMAR 26.11.09.05E(2) – Emissions During Idle Mode.  
The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3) – Emissions During Operating Mode.  
The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
- (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
- (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
- (a) Engines that are idled continuously when not in service: 30 minutes
- (b) all other engines: 15 minutes.

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- (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.
- (D) COMAR 26.11.36.03A(1), which establishes that the Permittee may not operate an emergency generator except for emergencies, testing and maintenance purposes.
- (E) COMAR 26.11.36.03A(5), which establishes that the Permittee may not operate an emergency generator for testing and engine maintenance purposes between 12:01 a.m. and 2:00 p.m. on any day on which the Department forecasts that the air quality will be a code orange, code red, or code purple unless the engine fails a test and engine maintenance and a re-test are necessary.
- (2)   ✓   Space heaters utilizing direct heat transfer and used solely for comfort heat;
- (3) Containers, reservoirs, or tanks used exclusively for:  
No.   6   Storage of lubricating oils;
- (4) Any other emissions unit, not listed in this section, with a potential to emit less than the “de minimus” levels listed in COMAR 26.11.02.10X (list and describe units):  
  1   Leachate collection pond

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**STATE-ONLY ENFORCEABLE CONDITIONS**

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

(A) **COMAR 26.11.06.08** – Nuisance

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

(B) **COMAR 26.11.06.09** – Odors

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

(C) **COMAR 26.11.15.05** – Control Technology Requirements

“A person who complies with the ambient impact requirement in Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.

(3) Unless an existing installation is controlled using T-BACT, the degree of emission limitation required in order to demonstrate compliance with Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.”

(D) **COMAR 26.11.15.06** – Ambient Impact Requirement

1. “Except as provided in §B(3) of this regulation, a person may not cause or permit the discharge of a toxic air pollutant listed in COMAR 26.11.16.07 from an existing installation or source if total allowable emissions of that TAP from the premises will unreasonably endanger human health.
2. A person shall demonstrate compliance with §B(1) of this regulation using the procedures established in Regulation .07 of this chapter and COMAR 26.11.16.
3. A person who owns or operates an existing premises shall meet the requirements of §B(1) and (2) of this regulation for each TAP listed in COMAR 26.11.16.07 by the applicable compliance dates listed in

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COMAR 26.11.16.07, or not later than 2 years after becoming subject to this chapter, whichever is later.”

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

KEEP PERMIT AT SITE

CONTROL NO. B- 05597

Lawrence J. Hogan, Jr.  
Governor

*State of*



*Maryland*

Ben Grumbles  
Secretary

Boyd K. Rutherford  
Lieutenant Governor

**DEPARTMENT OF THE ENVIRONMENT**

Air and Radiation Administration  
1800 Washington Boulevard, Suite 720  
Baltimore, MD 21230

Construction Permit

Part 70  
 Operating Permit

PERMIT NO. 24-510-02293

DATE ISSUED December 1, 2018

PERMIT FEE To be paid in accordance with COMAR 26.11.02.19B

EXPIRATION DATE November 30, 2023

**LEGAL OWNER & ADDRESS**

Baltimore City Dept. of Public Works  
1002 Abel Wolman Municipal Building  
200 N. Holliday Street  
Baltimore, MD 21202  
Attn: Mr. James Rohrbach, Chief  
Solid Waste Disposal Section

**SITE**

Quarantine Road Sanitary Landfill  
6100 Quarantine Road  
Baltimore, MD 21226  
Baltimore City  
AI#13670

**SOURCE DESCRIPTION**

One Municipal Solid Waste Landfill.

This source is subject to the conditions described on the attached pages.

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*Karen [Signature]*

Program Manager

*Angel Brainer*

Director, Air and Radiation Administration

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**SECTION I SOURCE IDENTIFICATION**

**1. DESCRIPTION OF FACILITY**

The Quarantine Road Sanitary Landfill (QRSL) is a 149-acre municipal solid waste (MSW) landfill with a primary SIC code of 4953 (2012 NAIC Code of 562212). The site also includes an area of 126 acres that has been permitted for additional MSW disposal. The landfill is located on Quarantine Road in the Hawkins Point section of Baltimore, Maryland. The QRSL facility is owned and operated by the City of Baltimore Department of Public Works. The landfill began accepting MSW in 1985. The landfill has a design capacity of 21.43 million tons which exceeds the 2.75 million tons threshold established in the NSPS regulation. The landfilled waste is typically 44% ash and 56% MSW.

Currently a landfill gas (LFG) collection and control system (GCCS) is not required as the landfill's annual non-methane organic compounds (NMOC) emission rate is less than 50 Mg/yr (55 tons/yr). A GCCS was voluntarily installed and started operations in May 2009. The landfill NMOC emissions will be below the threshold limit through 2022 and will be reevaluated every five years.

Site-specific NMOC concentrations were based on the Tier 2 testing. The average NMOC concentration at the landfill is 69.1 ppmv as hexane. The GCCS sends LFG to a utility flare for combustion and/or sends LFG to a gas treatment system where LFG is compressed, dried, and filtered. Normal operation of the GCCS and gas treatment system consists of LFG processed by the treatment system for delivery off site and excess LFG combusted by the utility flare.

Since the GCCS installation in May 2009, the landfill is no longer the primary source of air emissions. Although the installation of the GCCS has greatly decreased the amounts of fugitive HAP, VOC, and NMOC emissions, the addition of the flare has added NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and CO due to the combustion of LFG.

Due to its design capacity (19.48 million megagrams or 21.43 million tons of MSW), the QRSL is subject to the State of Maryland Emission Guidelines (EG) regulations for MSW (COMAR 26.11.19.20, "Control of Landfill Gas Emissions from Municipal Solid Waste Landfills").

The permitted design capacity was increased to greater than 2.75 million tons after May 30, 1991 and, therefore, the landfill is regulated according to the New Source Performance Standards (NSPS) in 40 CFR Part 60. A landfill is automatically subject to Part 70 operating permit requirements, if it has a design capacity of at least 2.5 million megagrams (2.75 million tons), regardless of whether it is a major stationary source. QRSL has a design capacity which is

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greater than the 2.75 million tons threshold, making it subject to the Title V permitting requirements. The refuse-in-place from waste accepted through December 31, 2017 is 5,769,357 tons.

EPA promulgated national emission standards for hazardous air pollutants (NESHAP) for existing and new municipal solid waste (MSW) landfills- 40 CFR Part 63 - Subpart AAAA. QRSL is subject to these maximum achievable control technology (MACT) requirements because it is a MSW landfill that has accepted waste since November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. QRSL must comply with the MACT requirements when the facility NMOC emissions exceed 50 Mg/year. The reported NMOC generation rate in the annual certification report was around 11.0 tpy assuming an NMOC concentration of 69.1 ppm [from sampling performed on May 8, 2017]. The facility projected an NMOC generation rate in 2022 to be around 14.2 ton/yr using the Landfill gas emission model (LandGEM) and the NMOC concentration (69.1 ppm from sampling). The NMOCs are collected by a gas collection and control system and are sent off-site with the excess being destroyed by one (1) candlestick flare, with approximately 98% destruction efficiency.

The Compliance Assurance Monitoring (CAM) Rule 40 CFR Subpart 64 is not applicable because Quarantine Road Landfill is subject to an emissions limitation that was proposed by the EPA administrator after November 15, 1990 pursuant to Section 111 or 112 of the Clean Air Act (specifically the facility is subject to the Emissions Guidelines for Municipal Solid Waste Landfills – 40 CFR Subpart Cc).

The current Title V permit for QRSL will expire on November 30, 2018. On November 30, 2017 the Department received a Part 70 renewal permit application for the Quarantine Road Sanitary Landfill. An administrative completeness review was conducted and the application was deemed to be complete. The completeness determination letter was sent on December 11, 2017 granting the facility an application shield.

The following Table 1 summarizes the actual emissions from Quarantine Road Sanitary Landfill based on its Annual Emission Certification Reports:

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**Table 1: Actual Emissions**

<b>Year</b>	<b>NO<sub>x</sub> (TPY)</b>	<b>SO<sub>x</sub> (TPY)</b>	<b>PM<sub>10</sub> (TPY)</b>	<b>CO (TPY)</b>	<b>VOC (TPY)</b>
2016	1.18	0.27	2.67	6.43	7.39
2015	0.91	0.21	1.84	4.97	7.35
2014	0.51	0.11	1.81	2.75	7.22
2013	0.23	0.05	1.80	1.27	7.39
2012	0.74	0.21	1.79	0.87	5.08

**2. FACILITY INVENTORY LIST**

<b>Emissions Unit Number</b>	<b>MDE Registration Number</b>	<b>Emissions Unit Name and Description</b>	<b>Date of Installation</b>
9-1150	EU-01	One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons.	August 1985
9-1164	EU-02	One (1) 3,000 scfm utility flare to combust excess LFG. Flare was installed as part of the LFG collection and control system	May 2009

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**SECTION II GENERAL CONDITIONS**

**1. DEFINITIONS**

**[COMAR 26.11.01.01] and [COMAR 26.11.02.01]**

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

**2. ACRONYMS**

ARA	Air and Radiation Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MDE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM10	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification
SO <sub>2</sub>	Sulfur Dioxide
TAP	Toxic Air Pollutant

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tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

**3. EFFECTIVE DATE**

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

**4. PERMIT EXPIRATION**

**[COMAR 26.11.03.13B(2)]**

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

**5. PERMIT RENEWAL**

**[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]**

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft permit. This information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

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**6. CONFIDENTIAL INFORMATION**

**[COMAR 26.11.02.02G]**

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

**7. PERMIT ACTIONS**

**[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]**

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;
- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or

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- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

**8. PERMIT AVAILABILITY**

**[COMAR 26.11.02.13G]**

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

**9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA**

**[COMAR 26.11.03.20B]**

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

**10. TRANSFER OF PERMIT**

**[COMAR 26.11.02.02E]**

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

**11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS**

**[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]**

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.
- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.

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- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

**12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS**

**[COMAR 26.11.03.17]**

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal, including the requirements for applications, public participation, and review by affected states and EPA, except:
  - (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;
  - (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable

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terms and conditions of the Part 70 permit that are affected by the significant permit modification.

- d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
- e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
- f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
- g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

**13. MINOR PERMIT MODIFICATIONS**

**[COMAR 26.11.03.16]**

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:
  - (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
  - (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
    - (a) Adding new requirements,
    - (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or

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- (c) Changing from one approved test method for a pollutant and source category to another;
  - (3) Does not require or modify a:
    - (a) Case-by-case determination of a federally enforceable emissions standard,
    - (b) Source specific determination for temporary sources of ambient impacts, or
    - (c) Visibility or increment analysis;
  - (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
    - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
    - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
  - (5) Is not a Title I modification; and
  - (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.
- b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;

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- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
    - (a) The proposed change meets the criteria for a minor permit modification, and
    - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
  - (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.
- c. Permittee's Ability to Make Change
- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
  - (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
    - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.
    - (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.
- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the

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Maryland SIP or in other applicable requirements of the Clean Air Act.

**14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS**

**[COMAR 26.11.03.15]**

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
  - (1) Be in writing;
  - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
  - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
  
- b. An administrative permit amendment:
  - (1) Is a correction of a typographical error;
  - (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
  - (3) requires more frequent monitoring or reporting by the Permittee;
  - (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);
  - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);

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- (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);
  - (7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
  - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
  - d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.
  - e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

**15. OFF-PERMIT CHANGES TO THIS SOURCE**

**[COMAR 26.11.03.19]**

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
  - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
  - (2) The change is not subject to any requirements under Title IV of the Clean Air Act;

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- (3) The change is not a Title I modification; and
  - (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
  - c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
  - d. The Permittee shall keep a record describing:
    - (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act , but not otherwise regulated under this permit; and
    - (2) The emissions resulting from those changes.
  - e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
  - f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
  - g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
  - h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

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**16. ON-PERMIT CHANGES TO SOURCES**

**[COMAR 26.11.03.18]**

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
  - (1) The change is not a Title I modification;
  - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
  - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
  - (4) The change does not violate an applicable requirement of the Clean Air Act;
  - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;
  - (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
  - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
  - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.

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- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
  - (1) A description of the proposed change;
  - (2) The date on which the change is proposed to be made;
  - (3) Any change in emissions resulting from the change, including the pollutants emitted;
  - (4) Any new applicable requirement of the Clean Air Act; and
  - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
- d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.
- e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
- f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.
- g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
- h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

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**17. FEE PAYMENT**

**[COMAR 26.11.02.16A(2) & (5)(b)]**

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

**18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS**

**[COMAR 26.11.02.09.]**

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;

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- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.— g.) above.

**19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION**

**[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]**

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

These procedures shall not alter any existing permit procedures or time frames.

**20. PROPERTY RIGHTS**

**[COMAR 26.11.03.06E(4)]**

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

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**21. SEVERABILITY**

**[COMAR 26.11.03.06A(5)]**

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

**22. INSPECTION AND ENTRY**

**[COMAR 26.11.03.06G(3)]**

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and
- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

**23. DUTY TO PROVIDE INFORMATION**

**[COMAR 26.11.03.06E(5)]**

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the

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Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not discloseable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

**24. COMPLIANCE REQUIREMENTS**

**[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]**

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or
- d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

**25. CREDIBLE EVIDENCE**

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

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**26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE**

**[COMAR 26.11.03.06E(2)]**

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

**27. CIRCUMVENTION**

**[COMAR 26.11.01.06]**

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

**28. PERMIT SHIELD**

**[COMAR 26.11.03.23]**

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;
- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or

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- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

**29. ALTERNATE OPERATING SCENARIOS**

**[COMAR 26.11.03.06A(9)]**

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

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**SECTION III PLANT WIDE CONDITIONS**

**1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION**

**[COMAR 26.11.06.03D]**

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

**2. OPEN BURNING**

**[COMAR 26.11.07]**

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

**3. AIR POLLUTION EPISODE**

**[COMAR 26.11.05.04]**

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

**4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS**

**[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]**

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;

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- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

**5. ACCIDENTAL RELEASE PROVISIONS**

**[COMAR 26.11.03.03B(23)] and [40 CFR 68]**

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

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The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

**6. GENERAL TESTING REQUIREMENTS**

**[COMAR 26.11.01.04]**

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

**7. EMISSIONS TEST METHODS**

**[COMAR 26.11.01.04]**

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

**8. EMISSIONS CERTIFICATION REPORT**

**[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and [COMAR 26.11.02.19D]**

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

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- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;
- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
  - (1) Familiar with each source for which the certifications forms are submitted, and
  - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
  - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
  - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
  - (3) Amounts, types and analyses of all fuels used;
  - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
  - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:
    - (a) Significant maintenance performed,
    - (b) Malfunctions and downtime, and
    - (c) Episodes of reduced efficiency of all equipment;
  - (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
  - (7) Other relevant information as required by the Department.

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**9. COMPLIANCE CERTIFICATION REPORT**

**[COMAR 26.11.03.06G(6) and (7)]**

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
  - (1) The identification of each term or condition of this permit which is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether the compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
  - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

**10. CERTIFICATION BY RESPONSIBLE OFFICIAL**

**[COMAR 26.11.02.02F]**

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my

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knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

**11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING**

**[COMAR 26.11.03.06C(5)]**

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and
- f. The results of each analysis.

**12. GENERAL RECORDKEEPING**

**[COMAR 26.11.03.06C(6)]**

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;
- b. All original data collected from continuous monitoring instrumentation;

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- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

**13. GENERAL CONFORMITY**

**[COMAR 26.11.26.09]**

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

**14. ASBESTOS PROVISIONS**

**[40 CFR 61, Subpart M]**

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

**15. OZONE DEPLETING REGULATIONS**

**[40 CFR 82, Subpart F]**

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- d. Persons performing maintenance, service, repairs or disposal of appliances shall certify with the Administrator pursuant to 40 CFR 82.162.

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- e. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.166.
- f. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- g. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

**16. ACID RAIN PERMIT**

Not applicable

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**SECTION IV PLANT SPECIFIC CONDITIONS**

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, record keeping and reporting requirements included in **Section III – Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, all records that the Permittee is required under this section to establish. **[Reference: COMAR 26.11.03.06C(5)(g)]**

The Quarantine Road Sanitary Landfill is currently subject to the following requirements:

<b>Table IV – 1</b>	
<b>1.0</b>	<p><b><u>Emissions Unit Number:</u> EU-01</b></p> <p>One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons. <b>[9-1150]</b></p> <p>The landfill covers 126-acres, began operation in 1985 and presently ongoing. The landfill consists of six cells with Cell 6 divided into two “sub-cells.” Cells 1 through 6, Phase I have all received MSW materials. The landfill has been accepting both ash and MSW, typically 44% and 56%, respectively. The landfill does operate a LFG collection system (GCCS), with treated gas sent off-site, and excess being combusted in a utility flare.</p>
<b>1.1</b>	<p><b><u>Applicable Standards/Limits:</u> None</b></p> <p>Quarantine Road Landfill is subject to the testing, record keeping, and reporting requirements indicated below.</p>
<b>1.2</b>	<p><b><u>Testing Requirements:</u></b></p> <p>“If the resulting NMOC mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the</p>

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<b>Table IV – 1</b>	
	emission rate report as provided in §60.757(b)(1) and retest the site-specific NMOC concentration every 5 years using the methods specified in this section.” <b>[Reference: 40 CFR §60.754(a)(3)(iii)]</b>
<b>1.3</b>	<p><b><u>Monitoring Requirements:</u></b></p> <p>See recordkeeping requirements.</p>
<b>1.4</b>	<p><b><u>Record Keeping Requirements:</u></b></p> <p>The Permittee shall keep all the records required under this permit for at least five years and shall make such records available to the Department upon request. <b>[Reference: COMAR 26.11.03.06C]</b></p>
<b>1.5</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A.</b> If the Permittee increases the maximum design capacity of the Quarantine Road Landfill after November 1, 1997, the Permittee shall amend and resubmit the design capacity report within 90 days of the issuance of an air quality Permit to Construct or a permit from the MDE Land Management Administration that authorizes the increase or any other change that increases the maximum design capacity of the landfill. <b>[Reference: COMAR 26.11.19.20D(2)]</b></p> <p><b>B.</b> The Permittee shall estimate the annual NMOC emission rate calculated using the formula and procedures as described in 40 CFR §60.754(a). The Permittee shall prepare and submit an updated NMOC emission rate report by November 1 of each year. A less frequent emission rate report may be submitted upon approval by the Department in accordance with COMAR 26.11.19.20D(6). <b>[Reference: COMAR 26.11.19.20D(3)(a) &amp; COMAR 26.11.19.20D(6)]</b></p> <p><b>C.</b> The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. Such report shall be submitted by April 1 of each year for the previous calendar year. <b>[Reference: COMAR 26.11.19.20D(7)]</b></p>

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The Quarantine Road Sanitary Landfill will be subject to the following requirements, if the calculated NMOC emissions increase to 55 tons per year or more:

<b>Table IV – 1A</b>	
<b>1A.0</b>	<p><b><u>Emissions Unit Number:</u> EU-01</b></p> <p>One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons. <b>[9-1150]</b></p> <p>The landfill covers 126-acres, began operation in 1985 and presently ongoing. The landfill consists of six cells with Cell 6 divided into two “sub-cells.” Cells 1 through 6, Phase I have all received MSW materials. The landfill has been accepting both ash and MSW, typically 44% and 56%, respectively. The landfill does operate a LFG collection system (GCCS), with treated gas sent off-site, and excess being combusted in a utility flare.</p>
<b>1A.1</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Standards for Air Emissions</u></b> <b>[Reference: 40 CFR 60.752]</b></p> <p>(1) The Permittee shall ensure that the gas collection and control system satisfies the requirements for an active collection system as provided for in §60.752(b)(2)(ii)(A)(1) through (4). The Permittee shall install the gas collection and control system according to the specifications in §60.759. <b>[Reference: 40 CFR 60.752(b)(2)(ii)(A) and 60.757]</b></p> <p>(2) The Permittee shall route all the collected landfill gas to a control system designed and operated to reduce nonmethane organic compounds (NMOC) by 98 weight-percent as provided for in §60.752(b)(2)(iii)(B). <b>[Reference: 40 CFR 60.752(b)(2)(iii) and (iii)(B)]</b></p> <p>(3) The Permittee may cap or remove the collection and control system provided that all the conditions of §60.752(b)(2)(v)(A) – (C) are met. The NMOC gas produced by the landfill shall be calculated following the procedures specified in §60.754(b). <b>[Reference: 40 CFR 60.752(b)(2)(v)]</b></p> <p>(4) When the landfill is closed, the Permittee is no longer subject to the requirement to maintain an operating permit under Part 70 for the landfill, if the landfill is not otherwise subject to the requirements of part 70 and if either of the conditions in §60.752(b)(1) and (2) are met. <b>[Reference: 40 CFR 60.752(b)]</b></p>

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(5) The Permittee shall not cause or allow any material to be handled, transported, or stored; or a building, its appurtenances; or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. **[Reference: COMAR 26.11.06.03D(2)]**

**B. Operational Standards**

**[Reference: 40 CFR 60.753]**

(1) The Permittee shall operate the gas collection and control system such that landfill gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active; or 2 years or more if closed or at final grade.

**[Reference: 40 CFR 60.752(b)(2)(ii)(A)(2) and 60.753(a)]**

(2) The Permittee shall operate the collection system with negative pressure at each wellhead except under the conditions specified in §60.753(b)(1) – (3). **[Reference: 40 CFR 60.753(b)]**

(3) The Permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55° C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The Permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well as provided for in §60.753(c). **[Reference: 40 CFR 60.753(c)]**

(4) The Permittee shall operate the collection system so that the methane concentration is less than **500** parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill as provided for in §60.753(d). **[Reference: 40 CFR 60.753(d)]**

(5) In the event the collection or control system is inoperable, the Permittee shall shut down the gas mover system and shall close, within one hour, all valves in the collection and control system contributing to venting of the gas to the atmosphere. **[Reference: 40 CFR 60.753(e)]**

(6) The Permittee shall operate the control or treatment system at all times when the collected gas is routed to the system. **[Reference: 40 CFR 60.753(f)]**

(7) The Permittee shall take corrective action as specified in §60.755(a)(3) through (5) or §60.755(c) of 40 CFR 60, Subpart WWW

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**Table IV – 1A**

if monitoring demonstrates that the operational requirements in §60.753(b), (c), or (d) are not met. If corrective actions are taken as specified in §60.755, the monitored exceedance is not a violation of the operational requirements in §60.753. **[Reference: 40 CFR 60.753(g)]**

(8) The Permittee shall take reasonable precautions, including the application of water on unpaved roads and other surfaces, to prevent particulate matter from becoming airborne. **[Reference: COMAR 26.11.06.03D(2)]**

**C. Control of Nitrogen Oxides Emissions**

**COMAR 26.11.09.08B(5) – Operator Training.**

(a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.

(b) The operator-training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**COMAR 26.11.09.08J – Requirements for Industrial Furnaces and Other Miscellaneous Installations that Cause Emissions of NO<sub>x</sub>.**

“A person who owns or operates any installation other than fuel-burning equipment that causes NO<sub>x</sub> emissions shall:

- (1) Maintain good operating practices as recommended by the equipment vendor to minimize NO<sub>x</sub> emissions;
- (2) Prepare and implement a written in-house training program for all operators of these installations that include instruction on good operating and maintenance practices for the particular installation;
- (3) Maintain and make available to the Department, upon request, the written in-house operator training program;
- (4) Burn only gas in each installation, where gas is available, during the period May 1 through September 30 of each year; and
- (5) Maintain operator training attendance records for each operator at the site for at least 2 years and make these records available to the Department upon request.”

**D. Other Requirements**

The provisions of 40 CFR 60, Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed one (1) hour for treatment or control devices. **[Reference: 40 CFR 60.755(e)]**

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<b>Table IV – 1A</b>	
<b>1A.2</b>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Standards for Air Emissions</u></b>  <b>[Reference: 40 CFR 60.754 and 755]</b>            (1) The Permittee shall use the methods specified in §60.755(a)(1) through (a)(6) to determine whether the gas collection system is in compliance with the requirements for an active collection system in §60.752(b)(ii)(A). <b>[Reference: 40 CFR 60.755(a)]</b></p> <p>(2) See Monitoring Requirements</p> <p>(3) The Permittee shall follow the procedures in §60.754(b) to calculate the NMOC gas produced by the landfill to determine if the collection and control system may be capped or removed as provided in §60.752(b)(2)(v). <b>[Reference: 40 CFR 60.754(b)]</b></p> <p>(4) See Monitoring Requirements</p> <p>(5) See Monitoring Requirements</p> <p><b>B. <u>Operational Standards</u></b></p> <p>(1) See Monitoring Requirements</p> <p>(2) See Monitoring Requirements</p> <p>(3) The nitrogen level shall be determined as prescribed in §60.753(c)(1) and the oxygen level shall be determined as prescribed in §60.753(c)(2). <b>[Reference: 40 CFR 60.753(c)(1) and (2)]</b></p> <p>(4) thru (8) See Monitoring Requirements</p> <p><b>C. <u>Control of Nitrogen Oxides Emissions</u></b>            See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.</p> <p><b>D. <u>Other Requirements</u></b>            See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.</p>

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<b>1A.3</b>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A. <u>Standards for Air Emissions</u></b> <b>[Reference: 40 CFR 60.756]</b> (1) The monitoring requirements to ensure compliance with this air emission standard are addressed as part of the monitoring requirements listed below for Section B, Item (2).  (2) thru (5) See record keeping and reporting requirements.</p> <p><b>B. <u>Operational Standards</u></b> (1) See record keeping and reporting requirements.  (2) The Permittee shall install a sampling port at each wellhead. <b>[Reference: 40 CFR 60.756(a)].</b> The Permittee shall measure the gauge pressure in the gas collection header on a monthly basis as provided in §60.755(a)(3). <b>[Reference: 40 CFR 60.756(a)(1)]</b> (a) If a positive pressure exists, the Permittee shall initiate corrective action within 5 days, except for the conditions allowed under §60.753(b). <b>[Reference: 40 CFR 60.755(a)(3)]</b> (b) If negative pressure cannot be achieved without excess air infiltration into the landfill within 15 days of the first measurement of a positive pressure in a wellhead, the Permittee shall expand the gas collection system to correct the exceedance within 120 days of the measurement of the positive pressure. <b>[Reference: 40 CFR 60.755(a)(3)]</b>  (3) The Permittee shall: (a) Install a thermometer, other temperature-measuring device, or an access port for temperature measurements at each wellhead. <b>[Reference: 40 CFR 60.756(a)].</b> (b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in §60.755(a)(5). <b>[Reference: 40 CFR 60.756(a)(2)]</b> (c) Monitor temperature of the landfill gas on a monthly basis as provided in §60.755(a)(5). <b>[Reference: 40 CFR 60.756(a)(3)]</b> (d) If a well exceeds the temperature, nitrogen, or oxygen operating parameters specified in §60.753(c), the Permittee shall initiate action to correct the exceedance as provided in §60.755(a)(5). <b>[Reference: 40 CFR 60.755(a)(5)]</b>  (4) The Permittee shall use the procedures specified in §60.755(c)(1) through (c)(5) to demonstrate compliance with the surface methane operational standard as provided in §60.753(d) and as detailed in the</p>
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**Table IV – 1A**

Updated Surface Monitoring Design Plan. **[Reference: 40 CFR 60.755(c)]**

(a) The Permittee shall comply with the instrumentation specifications and procedures for surface emission monitoring devices as specified in §60.755(d) and monitor surface concentrations of methane according to the instrument specifications and procedures.

**[Reference: 40 CFR 60.755(d)]**

(b) The Permittee shall record as a monitored exceedance any reading of 500 parts per million or more of methane above background at any location and the Permittee shall take the actions specified in §60.755(c)(4)(i) through (v). As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of §60.753(d). **[Reference: 40 CFR 60.755(c)(4)]**

(c) The Permittee shall implement a program to monitor for cover integrity and implement cover repair as necessary on a monthly basis.

**[Reference: 40 CFR 60.755(c)(5)]**

(d) When the landfill is closed and it has no monitored exceedances of the 500 ppm operational standard for surface methane concentrations in three consecutive quarterly monitoring periods, the Permittee may convert to an annual monitoring frequency. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. **[Reference: 40 CFR 60.756(f)]**

(5) thru (8) See record keeping and reporting requirements.

**C. Control of Nitrogen Oxides Emissions**

The Permittee shall maintain good operating practices as recommended by the equipment vendor to minimize NO<sub>x</sub> emissions. **[Reference: COMAR 26.11.09.08J(1)]** The Permittee shall continue implementing the current written in-house training program for all operators of these installations that include instruction on good operating and maintenance practices for the particular installation. (Note: COMAR 26.11.09.08B(5)(a) states that “for the purpose of this regulation the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operations.” **[Reference: COMAR 26.11.09.08J(2)]**

**D. Other Requirements**

See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.

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<b>1A.4</b>	<p><b><u>Record Keeping Requirements:</u></b></p> <p><b>A. <u>Standards for Air Emissions</u></b></p> <p>(1) Except as provided for in §60.752(b)(2)(i)(B):</p> <p>(a) The Permittee shall 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 for each collector as specified in §60.758(d)(1) and (2). <b>[Reference: 40 CFR 60.758(d)]</b></p> <p>(b) The Permittee shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in §60.758(b)(1) as measured during the initial performance test. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years.</p> <p>(2) thru (5) See record keeping and reporting requirements.</p> <p><b>B. <u>Operational Standards</u></b></p> <p>(1) See record keeping and reporting requirements.</p> <p>(2) through (4) Except as provided for in §60.752(b)(2)(i)(B), the Permittee shall keep for five years up-to-date, readily accessible monthly records of the gauge pressure in the gas collection system nitrogen or oxygen concentrations in the landfill gas, and temperature of the landfill gas as specified to be monitored in §60.756(a). In a similar manner, the Permittee will keep records of the surface methane concentrations monitored as specified in §60.756(f). <b>[Reference: 40 CFR 60.758(c)]</b></p> <p>(2) The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual report as provided in §60.757(f)(1). <b>[Reference: 40 CFR 60.753(b)(1)]</b></p> <p>(5) &amp; (6) See record keeping and reporting requirements.</p> <p>(7) Except as provided for in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in §60.753 for wellhead pressure, landfill gas temperature, and nitrogen or oxygen concentrations of the landfill gas as specified in §60.758(e). <b>[Reference: 40 CFR 60.758(e)]</b></p> <p>(8) See record keeping and reporting requirements.</p>
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	<p><b>C. <u>Control of Nitrogen Oxides Emissions</u></b> The Permittee shall maintain the written in-house operator-training program and operator training attendance records for each operator at the site for at least 2 years. The Permittee shall make available the Department, upon request, the written in-house operator-training program and records of operator training attendance. <b>[Reference: COMAR 26.11.09.08J(2)]</b></p> <p><b>D. <u>Other Requirements</u></b> (1) Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §60.752(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>[Reference: 40CFR 60.758(a)]</b> (2) Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for 5 years up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. <b>[Reference: 40 CFR 60.758(c)]</b> (3) The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under §60.756. <b>[Reference: 40 CFR 60.758(c)(2)]</b></p>
<b>1A.5</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Standards for Air Emissions</u></b> (1) &amp; (2) See record keeping and reporting requirements.</p> <p>(3) The Permittee shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment as required in §60.757(e)(1) through (2). <b>[Reference: 40 CFR 60.757(e)]</b></p> <p>(4) The Permittee shall submit a closure report to the Administrator within 30 days of waste acceptance cessation as required in §60.757(d). If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without the Permittee filing a notification of modification as described in §60.7(a)(4). <b>[Reference: 40 CFR 60.757(d)]</b></p> <p>(5) See record keeping and reporting requirements.</p>

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	<p><b>B. <u>Operational Standards</u></b>  (1) through (6) The Permittee shall submit to the Administrator annual reports of the recorded information in §60.757(f)(1) through (6). The reportable exceedances for the enclosed flare are defined under §60.758(c) [Reference: 40 CFR 60.757(f)].</p> <p>(7) &amp; (8) See record keeping and reporting requirements.</p> <p><b>C. <u>Control of Nitrogen Oxides Emissions</u></b>  See record keeping and reporting requirements.</p> <p><b>D. <u>Other Requirements</u></b>  The Permittee shall submit an annual NMOC emission rate report to the Administrator. The report is due on the anniversary of the Permittee’s initial submittal of the NMOC report as required in 40 CFR 60.757(b). [Reference: 40 CFR 60.757(b)]</p> <p><u>Exception:</u> The Permittee is exempted from the requirements of 40 CFR 60.757(b)(1) and (2), after the installation of a landfill gas collection and control system in compliance with §60.752(b)(2), during such time as the collection and control system is in operation and in compliance with §§60.753 and 60.755. [Reference: 40 CFR 60.757(b)(3)]</p>
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**The Quarantine Road Sanitary Landfill will be subject to the following requirements, if the calculated NMOC emissions increase to 55 tons per year or more:**

<b>Table IV – 1B</b>	
<b>1B.0</b>	<p><b><u>Emissions Unit Number(s): EU-01 Cont’d</u></b></p> <p>One (1) active municipal solid waste landfill with a maximum design capacity of 21.43 MM tons. [9-1150]</p> <p>The landfill covers 126-acres, began operation in 1985 and presently ongoing. The landfill consists of six cells with Cell 6 divided into two “sub-cells.” Cells 1 through 6, Phase I have all received MSW materials. The landfill has been accepting both ash and MSW, typically 44% and 56%, respectively. The landfill does operate a LFG collection system (GCCS), with treated gas sent off-site, and excess being combusted in a utility flare.</p>

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**Table IV – 1B**

<b>1B.1</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>Subpart AAAA – National Emission Standard for Hazardous Air Pollutants: Municipal Solid Waste Landfills.</b></p> <p><b><u>Applicability</u></b></p> <p>“You are subject to this subpart if you own or operate a MSW landfill that has accepted since November 8, 1987 or has additional capacity for waste disposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section: (3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m<sup>3</sup>) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR part 60, subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.” <b>[Reference: 40 CFR §63.1935(a)(3)]</b></p> <p>“If your landfill is an existing affected source and is an area source meeting the criteria in §63.1935(a)(3), you must comply with the requirements in §§63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later.” <b>[Reference: 40 CFR §63.1945(f)]</b></p> <p><b><u>Standards</u></b></p> <p>“If you are required by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in §§63.1960 through 63.1985 and with the general provisions of this part specified in table 1 of this subpart.” <b>[Reference: 40 CFR §63.1955(b)]</b></p> <p><b><u>General and Continuing Compliance Requirements</u></b></p> <p>“Compliance is determined in the same way it is determined for 40 CFR Part 60, subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of subpart WWW, are used to demonstrate compliance with the operating conditions for control</p>
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<b>Table IV – 1B</b>	
	systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, you must develop and implement a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write, implement, or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.” <b>[Reference: 40 CFR §63.1960]</b>
<b>1B.2</b>	<b><u>Testing Requirements:</u></b>  See <b><u>General and Continuing Compliance Requirements</u></b>
<b>1B.3</b>	<b><u>Monitoring Requirements:</u></b>  See <b><u>General and Continuing Compliance Requirements</u></b>
<b>1B.4</b>	<b><u>Record Keeping Requirements:</u></b> “Keep records and reports as specified in 40 CFR Part 60, Subpart WWW, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in 40 CFR 60.757(f) every 6 months.” <b>[Reference: 40 CFR §63.1980(a)]</b> “You must also keep records and reports as specified in the general provisions of 40 CFR Part 60 and this part as shown in Table 1 of this subpart. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.” <b>[Reference: 40 CFR §63.1980(b)]</b>
<b>1B.5</b>	<b><u>Reporting Requirements:</u></b>  See <b><u>General and Continuing Compliance Requirements</u></b>

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<b>Table 1 to Subpart AAAA of Part 63 – Applicability of NESHAP General Provisions to Subpart AAAA.</b>		
<b>Part 63 Citation</b>	<b>Description</b>	<b>Explanation</b>
63.1(a)	Applicability: general applicability of NESHAP in this subpart	Affected sources are already subject to the provisions of paragraphs (a)(10) - (12) through the same provisions under 40 CFR, part 60 subpart A.
63.1(b)	Applicability determination for stationary sources	
63.1(e)	Title V permitting	
63.2	Definitions	
63.4	Prohibited activities and circumvention	Affected sources are already subject to the provisions of paragraph (b) through the same provisions under 40 CFR, part 60 subpart A.
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	
63.6(e)	Operation and maintenance requirements, start-up, shutdown and malfunction plan provisions	
63.6(f)	Compliance with non opacity emission standards	Affected sources are already subject to the provisions of paragraphs (f)(1) and (2)(i) through the same provisions under 40 CFR, part 60 subpart A.
63.10(b)(2)(i) – (b)(2)(v)	General recordkeeping requirements	
63.10(d)(5)	If actions taken during start-up, shutdown and malfunction are consistent with the procedures in the startup, shutdown and malfunction plan, this information shall be included in a semi-annual startup, shutdown and malfunction plan report. Any time an action taken during a startup,	

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<b>Table 1 to Subpart AAAA of Part 63 – Applicability of NESHAP General Provisions to Subpart AAAA.</b>		
<b>Part 63 Citation</b>	<b>Description</b>	<b>Explanation</b>
	shutdown and malfunction plan is not consistent with the startup, shutdown and malfunction plan, the source shall report actions taken with 2 working days after commencing such actions, followed by a letter 7 days after the event.	
63.12(a)	These provisions do not preclude the State from adopting and enforcing any standard, limitation, etc; requiring permits or requiring emissions reductions in excess of those specified.	
63.15	Availability of information and confidentiality.	

<b>Table IV – 2</b>	
<b>2.0</b>	<p><b><u>Emissions Unit Number(s) – EU-2</u></b></p> <p>Flare System: One (1) 3,000 scfm Perennial utility flare was installed in May 2009. Normal operation sends LFG to the treatment facility that directs treated gas off-site for beneficial use. The excess LFG is combusted in this flare. <b>[9-1164]</b></p>
<b>2.1</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b>  <b>COMAR 26.11.06.02C(2) – <u>Visible Emission Standards</u></b>            “In Areas III and IV a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is visible to human observers.”  <b>COMAR 26.11.06.02A(2) – <u>General Exceptions.</u></b> “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:            (a) The visible emissions are not greater than 40 percent opacity; and</p>

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<b>Table IV – 2</b>	
	<p>(b) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.”</p> <p><b>B. <u>Operational Standards</u></b>  <b>[Reference: 40 CFR Part 60.752(b)]</b>  “(2) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:  (iii) Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.  (A) An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e)”</p>
<b>2.2</b>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b>  See Record Keeping and Reporting Requirements in Section 2.4 and 2.5.</p> <p><b>B. <u>Operational Standards</u></b>  See Record Keeping and Reporting Requirements in Section 2.4 and 2.5.</p>
<b>2.3</b>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b>  The Permittee shall properly operate and maintain the flare in a manner to minimize visible emissions. <b>[Reference: COMAR 26.11.03.06C]</b></p> <p><b>B. <u>Operational Standards</u></b>  <b>[Reference: 40 CFR Part 60.756(c)]</b>  Each owner or operator seeking to comply with §60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:  (1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.  (2) A device that records flow to or bypass of the flare. The owner or operator shall either:  (i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or  (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or</p>

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<b>Table IV – 2</b>	
	closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
<b>2.4</b>	<p><b><u>Record Keeping Requirements:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b> The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. [Reference: <b>COMAR 26.11.03.06C</b>]</p> <p><b>B. <u>Operational Standards</u></b> The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame monitoring as specified under §60.756(c) for open flares and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service. [Reference: <b>40 CFR 60.758(b)(4) and MDE ARMA/AQPP Letter, October 2, 1995</b>]</p> <p>The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed. [Reference: <b>40CFR 60.758(b)</b>]</p>
<b>2.5</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b> The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, “Report of Excess Emissions and Deviations.</p> <p><b>B. <u>Operational Standards</u></b> See Record Keeping and Reporting Requirements in Section 2.4 and 2.5.</p>

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**SECTION V      INSIGNIFICANT ACTIVITIES**

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1)      1      Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

One (1) Power Pro 40 (Model No. SDG40S-8B1) diesel fired emergency generator rated at 49 HP.

The engine is subject to the following requirements:

- (A) COMAR 26.11.09.05E(2) – Emissions During Idle Mode.  
The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3) – Emissions During Operating Mode.  
The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
  - (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
  - (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
    - (a) Engines that are idled continuously when not in service: 30 minutes
    - (b) all other engines: 15 minutes.
  - (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

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(D) COMAR 26.11.36.03A(1), which establishes that the Permittee may not operate an emergency generator except for emergencies, testing and maintenance purposes.

(E) COMAR 26.11.36.03A(5), which establishes that the Permittee may not operate an emergency generator for testing and engine maintenance purposes between 12:01 a.m. and 2:00 p.m. on any day on which the Department forecasts that the air quality will be a code orange, code red, or code purple unless the engine fails a test and engine maintenance and a re-test are necessary.

(2)   ✓   Space heaters utilizing direct heat transfer and used solely for comfort heat;

(3) Containers, reservoirs, or tanks used exclusively for:

No.   6   Storage of lubricating oils;

(4) Any other emissions unit, not listed in this section, with a potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X (list and describe units):

  1   Leachate collection pond

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**SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS**

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

(A) **COMAR 26.11.06.08** – Nuisance.

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

(B) **COMAR 26.11.06.09** – Odors.

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

(C) **COMAR 26.11.15.05** – Control Technology Requirements.

“A person who complies with the ambient impact requirement in Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.

(3) Unless an existing installation is controlled using T-BACT, the degree of emission limitation required in order to demonstrate compliance with Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.”

(D) **COMAR 26.11.15.06** – Ambient Impact Requirement.

1. “Except as provided in §B(3) of this regulation, a person may not cause or permit the discharge of a toxic air pollutant listed in COMAR 26.11.16.07 from an existing installation or source if total allowable emissions of that TAP for the premises will unreasonably endanger human health.
2. A person shall demonstrate compliance with §B(1) of this regulation using the procedures established in Regulation .07 of this chapter and COMAR 26.11.16.
3. A person who owns or operates an existing premises shall meet the requirements of §B(1) and (2) of this regulation for each TAP listed in COMAR 26.11.16.07 by the applicable compliance dates listed in COMAR 26.11.16.07, or not later than 2 years after becoming subject to this chapter, whichever is later.”

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2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.