



*Commonwealth of Virginia*

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY**

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Stefanie K. Taillon  
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director

February 12, 2025

Mr. Christopher Sweet  
EH&S Director, Data Center Operations  
Iskandar Ventures LLC (LC1A)  
Jamshid Ventures LLC (LC1B)  
Kaveh Ventures LLC (LC2)  
Lohrasp Ventures LLC (LC3)  
1212 New York Avenue NW, Suite 1000  
Washington, DC 20005

Location: Loudoun County  
Registration No.: 74155

Dear Mr. Sweet:

Attached is an amendment to your permit to construct and operate non-emergency diesel engine generator sets (gen-sets), emergency diesel engine gen-sets and fire pump diesel engines at a data center facility in accordance with the provisions of the Virginia State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. This permit document combines the terms and conditions from and supersedes your permit document dated September 15, 2023.

In the course of evaluating the application and arriving at a final decision to approve the new stationary source, the Department of Environmental Quality (DEQ) deemed the application complete on January 14, 2025.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

This permit approval to construct and operate shall not relieve Iskandar Ventures LLC, Jamshid Ventures LLC, Kaveh Ventures LLC, and Lohrasp Ventures LLC of the responsibility to comply with all other local, state, and federal permit regulations.

The proposed and existing diesel engine gen-sets may be subject to 40 CFR 63, Maximum Achievable Control Technology (MACT), Subpart ZZZZ and 40 CFR 60, New Source Performance Standard (NSPS), Subpart IIII. Virginia has not accepted delegation of these rules. In summary, the units may be required to comply with certain federal emission standards and

operating limitations. The DEQ advises you to review the referenced MACT and NSPS to ensure compliance with applicable emission and operational limitations. As the owner/operator, you are also responsible for any monitoring, notification, reporting and recordkeeping requirements of the MACT and NSPS. Notifications shall only be sent to EPA, Region III.

To review any federal rules referenced in the above paragraph or in the attached permit, the US Government Publishing Office maintains the text of these rules at [www.ecfr.gov](http://www.ecfr.gov), Title 40, Part 60 and 63.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

Michael S. Rolband, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Ms. Cameron Stewart at (571) 866-6093 or via e-mail at [cameron.stewart@deq.virginia.gov](mailto:cameron.stewart@deq.virginia.gov).

Sincerely,



Justin A. Wilkinson, Regional Air Permit Manager  
Virginia Department of Environmental Quality  
[justin.wilkinson@deq.virginia.gov](mailto:justin.wilkinson@deq.virginia.gov)  
Northern Regional Office  
13901 Crown Court, Woodbridge, VA 22193  
(703) 583-3800



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Stefanie K. Taillon  
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director

**STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE**  
**This permit document supersedes your permit document dated September 15, 2023.**

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Iskandar Ventures LLC (LC1A)  
Jamshid Ventures LLC (LC1B)  
Kaveh Ventures LLC (LC2)  
Lohrasp Ventures LLC (LC3)  
1212 New York Avenue NW, Suite 1000  
Washington, DC 20005  
Registration No.: 74155

is authorized to construct and operate

diesel engine generator sets (gen-sets) and diesel engine fire pumps

located at

LC1A - 21955 Loudoun County Parkway  
LC1B - 21955 Loudoun County Parkway  
LC2 - 44621 Waxpool Road  
LC3 - 44631 Waxpool Road  
Ashburn, VA 20147 (Loudoun County)

in accordance with the Conditions of this permit.

Approved on:

February 12, 2025

A handwritten signature in black ink, appearing to read "Justin A. Wilkinson".

Justin A. Wilkinson  
Regional Air Permit Manager

Permit consists of 23 pages (w/o the attachment).

Permit Conditions 1 to 36.

Attachment A - Source Testing Report Format (1 page).

## **INTRODUCTION**

This permit approval is based on and combines permit terms and conditions in accordance with 9VAC5-80-1255 from the following permit approvals and the respective permit applications:

Permit Program: Approval/Amendment Date	Application Signature Date	Application Additional Information Received Date
Minor NSR: September 26, 2018	April 13, 2018	April 24, 2018 May 17, 2018 August 9, 2018 September 5, 2018
Minor NSR and Minor NSR amendment: March 1, 2019	November 29, 2018	December 03, 2018 December 07, 2018 December 10, 2018 December 20, 2018 February 25, 2019
Minor NSR: September 15, 2023	August 3, 2021 April 19, 2022 April 7, 2023	September 2, 2021 September 16, 2021 September 28, 2021 July 12, 2022 July 13, 2022 September 29, 2022 December 20, 2022 July 28, 2023 September 8, 2023
Minor NSR amendment: February 12, 2025	August 20, 2024	October 25, 2024 December 9, 2024 January 14, 2025

Any changes in the permit application specifications or any existing facilities, which alter the impact of the facility on air quality, may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action. In addition, this facility may be subject to additional applicable requirements not listed in this permit.

Words or terms used in this permit shall have meanings as provided in 9VAC5-80-1110 (definitions) and 9VAC5-10-20 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses ( ) after each condition. The enabling permit program, or permit programs is provided below each permit condition in the regulatory authority parenthetical as follows: 9VAC5-80-850 for Article 5, 9VAC5-80-1180 for Article 6, 9VAC5-80-1985 for Article 8, and 9VAC5-80-2050 for Article 9. The most recent effective date for a condition is listed in brackets [ ] after each regulatory reference. When identical conditions on approval for one or more emission units are combined, the listed effective date does not alter the prior

effective date(s) for any such conditions as issued in a previous permit action. In accordance with 9VAC5-80-1120F, any condition not marked as state-only enforceable (SOE) is state and federally enforceable.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9VAC5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

**Equipment List** – Equipment at this facility subject to permit requirements of 9VAC5-80-1100 *et seq.* consists of:

<b>Equipment to be Constructed:</b>					
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Standby Rated Capacity</b>	<b>Add-on Control Technology</b>	<b>Delegated Federal Requirements</b>	<b>Original Permit Date</b>
93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348	Seventy-five (75) Caterpillar C175-16 non-emergency diesel engine gen-sets	4,423 bhp 3,000 ekW (each unit)	Selective Catalytic Reduction (SCR)*	N/A	September 15, 2023
FP-3	One (1) Clarke Model JU4H-UFAEE8 Fire Pump Diesel Engine	64 bhp 48 kw	N/A	N/A	September 15, 2023

\*Caterpillar 5X4X3 SCR system

<b>Previously Permitted Equipment:</b>				
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Standby Rated Capacity</b>	<b>Delegated Federal Requirements</b>	<b>Original Permit Date</b>
1 through 88	Eighty-eight (88) Caterpillar C175-16 emergency diesel engine gen-sets	4,423 bhp 3,000 ekW (each unit)	None	September 26, 2018
89 through 92, 98 through 107, 121, 123 through 128, and 137 through 142	Twenty-seven (27) Caterpillar C175-16 emergency diesel engine gen-sets	4,423 bhp 3,000 ekW (each unit)	None	March 1, 2019
FP-1A	One (1) John Deere 4045TF290 stationary diesel engine fire pump	64 bhp	None	September 26, 2018

The specifications included in the table above are for informational purposes only and do not form enforceable terms or conditions of the permit.

## **PROCESS REQUIREMENTS**

1. **Emission Controls** – Emissions from the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engines (Ref. Nos. FP-1A and FP-3) shall be controlled by the following:
    - a. Nitrogen oxides (NO<sub>x</sub>) emissions from the emergency diesel engine gen-sets (Ref. Nos. Ref. Nos. 89 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) shall be controlled by electronic fuel injection, turbocharged engines, and aftercoolers. The permittee shall maintain documentation that demonstrates the control devices have been installed on each emergency diesel engine gen-set.
    - b. Nitrogen oxides (NO<sub>x</sub>) emissions from the fire pump diesel engine (Ref. No. FP-3) shall be controlled by engine design.
    - c. Carbon monoxide (CO) emissions, particulate matter (PM<sub>10</sub>/PM<sub>2.5</sub>) emissions, volatile organic compounds (VOC) emissions, nitrogen oxides (NO<sub>x</sub>) emissions, and visible emissions from the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. No. FP-3) shall be controlled by the use of good operating practices and performing maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not degrade the air emissions from the emergency diesel engine gen-sets, non-emergency diesel engine gen-sets, and fire pump diesel engine.
    - d. Particulate matter (PM<sub>10</sub>/PM<sub>2.5</sub>) emissions, nitrogen oxides (NO<sub>x</sub>) emissions, and visible emissions from the emergency diesel engine fire pump (Ref. No. FP-1A) shall be controlled by the use of good operating practices and performing maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not degrade the air emissions from the emergency diesel engine fire pump.
- (9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]
2. **Emission Controls** – Nitrogen oxide (NO<sub>x</sub>) emissions from the non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall be controlled by closed loop Selective Catalytic Reduction (SCR) systems. Each SCR system shall be equipped with a temperature probe to continuously monitor the catalyst bed exhaust temperature while the engine-generator set is operational. Engine exhaust gas shall be treated with urea when the engines are operating at or above

twenty percent (20%) load and the catalyst bed exhaust temperature of 572°F is achieved, except for periods of start-up, shutdown, or malfunction.

In the event that the engine exhaust gas temperature exceeds 890°F, urea injection shall be discontinued and any operations above that level will be considered a malfunction.

The SCR shall be provided with adequate access for inspection and shall be in operation when the engine-generator sets are operating as stated above.  
(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

### 3. **Monitoring**

- a. Fuel Flow: Each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) and non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall be equipped with a device to continuously measure and record individual fuel consumption (in gallons) for each engine gen-set.
- b. Engine Operating Hours: Each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) shall be equipped with a non-resettable hour meter which measures the duration of time that each unit is operated.
- c. Engine load/kilowatt output: Each non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall be equipped with a device to monitor and record the engine-generator kilowatt output at a minimum frequency of once every fifteen minutes.

Each monitoring device (as required in a., b., and c. above) shall be observed by the permittee with a frequency of not less than once each day the unit is operated. The permittee shall keep a log of these observations.

Each monitoring device shall be installed, maintained, calibrated (as appropriate), and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The details of the monitoring device calibrations are to be arranged with the Regional Air Compliance Manager of the DEQ's Northern Regional Office (NRO). Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the units are operating.  
(9VAC5-80-1180 D) [9/15/2023]

4. **Monitoring Devices** – The engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall be equipped with devices to continuously measure and record the SCR catalyst bed exhaust temperature and the NO<sub>x</sub> emissions measured after the catalyst, expressed in ppm. The information shall be recorded at a



minimum frequency of once every fifteen minutes, and correlated to run date, engine load/kilowatt output, and engine operating hours.

Each monitoring device shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the SCR is operating.  
(9VAC5-80-1180 D) [9/15/2023]

### **OPERATING/EMISSION LIMITATIONS**

5. **Operation of the Engine Gen-Sets and Diesel Engine Fire Pumps** – The permittee shall operate and maintain each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) and control devices according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer and does not increase air emissions.  
(9VAC5-80-1180) [9/15/2023]
6. **Operating Limitations (Ozone Season)** – No emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) or non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall be operated for scheduled maintenance checks and readiness testing (Scheduled MCRT), stack testing or operator training (that involves fuel combustion) between the hours of 7 a.m. to 5 p.m. any day during May 1 through September 30. The permittee may petition the Regional Air Compliance Manager of DEQ's NRO for exceptions to this requirement, with approvals made on a case-by-case basis.  
(9VAC5-80-1180) [9/15/2023]
7. **Operating Limitations (Ozone Season) – Integration Operational Period** – During the integration operational period of each non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), any operation of the unit (that involves fuel combustion) between the hours of 7 a.m. to 5 p.m. any day during the ozone season of May 1 through September 30 shall only occur if the forecast Air Quality Index (AQI) for ozone as published on the AirNow website (<https://airnow.gov>) for Northern Virginia for that day is less than or equal to 100. In the event that AirNow-EnviroFlash ([www.enviroflash.info](http://www.enviroflash.info)) issues an Air Alert for Metropolitan Washington, D.C. for a day which the forecasted AQI for ozone was less than or equal to 100, operation of each unit (which involves fuel combustion) shall be minimized to the maximum extent practical.  
(9VAC5-80-1180) [9/15/2023]

8. **Emergency Power Generation** – The emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) shall only be operated in the following modes:
- a. In situations that arise from sudden and reasonably unforeseeable events where the primary energy or power source is disrupted or disconnected due to conditions beyond the control of an owner or operator of a facility including:
    - i. A failure of the electrical grid;
    - ii. On-site disaster or equipment failure; or
    - iii. Public service emergencies such as flood, fire, natural disaster, or severe weather conditions.
  - b. For participation in an ISO-declared emergency, where an ISO emergency is:
    - i. An abnormal system condition requiring manual or automatic action to maintain system frequency, to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property;
    - ii. Capacity deficiency or capacity excess conditions;
    - iii. A fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel;
    - iv. Abnormal natural events or man-made threats that would require conservative operations to posture the system in a more reliable state; or
    - v. An abnormal event external to the ISO service territory that may require ISO action.
  - c. For scheduled maintenance checks and readiness testing (Scheduled MCRT).
  - d. For unscheduled maintenance, testing and operational training.
  - e. For the integration operational period, which is the period of time beginning with the first time the affected unit is started on-site and ending when the affected unit is fully integrated with the sources electrical system.

9. **Fire Pump Operation** – The diesel engine fire pumps (Ref. Nos. FP-1A and FP-3) shall only be operated to provide power to pump water for fire suppression or protection and for periodic maintenance, testing, operational training, and for commissioning during the integration operational period.  
(9VAC5-80-1180) [9/15/2023]
10. **Operating Hours** – Each individual emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) shall not operate more than 9 hours per year for scheduled maintenance checks and readiness testing (Scheduled MCRT) (as provided in Condition 8c.).

Each individual emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) shall not operate more than 500 hours per year for all purposes (as provided in Condition 8) combined.

The annual limits for hours of operation shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9VAC5-80-1180) [9/15/2023]

11. **Operating Hours (Fire Pump Engines)** – Each fire pump diesel engine (Ref. No. FP-1A and FP-3) shall not operate more than 40 hours per year for all purposes (as provided in Condition 9) combined.

The annual limits for hours of operation shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9VAC5-80-1180) [9/15/2023]

12. **Fuel Specification** – The approved fuel for the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engines (Ref. Nos. FP-1A and FP-3) is diesel fuel oil. For the purposes of this permit document, diesel fuel oil is defined as ultra-low sulfur diesel fuel oil (ULSD), hydrotreated vegetable oil (HVO), or a blend of these fuels, and shall meet the specifications below:

**DIESEL FUEL OIL:**

- a. Does not exceed the American Society for Testing and Materials (ASTM) specification, D975, for grade ultra-low sulfur 2-D or grade 2-D S15, or,

- b. Has a maximum sulfur content not to exceed 0.0015% by weight (15 ppm), and either a minimum cetane number of forty (40) or maximum aromatic content of thirty-five percent (35%) by volume.

Exceedance of these specifications may be considered credible evidence of an exceedance of emission limits. A change in the fuel type or the fuel sulfur content may require a permit to modify and operate.

(9VAC5-80-1180 and 9VAC5-50-260) [2/12/2025]

**13. Fuel Certification** – The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the diesel fuel oil was received;
- c. The quantity of diesel fuel oil delivered in the shipment;
- d. A statement that the diesel fuel oil complies with the requirements of Condition 12 (Fuel Specification); and
- e. The sulfur content of the diesel fuel oil.

Alternatively, the permittee must obtain approval from the Regional Air Compliance Manager of DEQ's NRO, if other documentation will be used to certify the diesel fuel type.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 12. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9VAC5-80-1180) [2/12/2025]

**14. Diesel Fuel Throughput Limit (Emergency Engine Generators) –**

The one hundred fifteen (115) emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) combined shall consume no more than 593,162 gallons of diesel fuel oil per year, calculated daily as the sum of each consecutive 365-day period (all uses).

Compliance for the consecutive 365-day period shall be demonstrated daily by adding the total for the most recently completed calendar day to the individual daily totals for the preceding 364 days.

(9VAC5-80-1180) [9/15/2023]

**15. Diesel Fuel Throughput Limit (Non-Emergency Engine Generators) –**

- a. The seventy-five (75) non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) combined shall consume no more than 79,142 gallons of diesel fuel oil per year when emissions are uncontrolled, calculated daily as the sum of each consecutive 365-day period (all uses); and
- b. The seventy-five (75) non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) combined shall consume no more than 309,148 gallons of diesel fuel oil per year when emissions are controlled with SCR, calculated daily as the sum of each consecutive 365-day period (all uses).

Compliance for the consecutive 365-day period shall be demonstrated daily by adding the total for the most recently completed calendar day to the individual daily totals for the preceding 364 days.

(9VAC5-80-1180) [9/15/2023]

**EMISSION LIMITS**

- 16. Emission Limits (Hourly) (Emergency Engine Gen-sets) –** Emissions from the operation of the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) shall not exceed the limits specified below:

<b>Pollutant</b>	<b>Caterpillar C175-16 (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) (each unit)</b>
Nitrogen Oxides (as NO <sub>2</sub> )	58.51 lb/hr
Carbon Monoxide (CO)	14.31 lb/hr
Volatile Organic Compounds (VOC)	2.31 lb/hr
Particulate Matter (PM <sub>10</sub> )	0.78 lb/hr
Particulate Matter (PM <sub>2.5</sub> )	0.78 lb/hr

Compliance with these pollutant emission limits shall be based on the proper operation and maintenance of the emergency diesel engine gen-sets or by testing, if required.

(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

17. **Emission Limits (Hourly) (Non-Emergency Engine Gen-sets)** – Emissions from the operation of the non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) shall not exceed the limits specified below:

Pollutant	Caterpillar C175-16 Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) (each unit)	
	Uncontrolled	Controlled with SCR
Nitrogen Oxides (NO <sub>x</sub> as NO <sub>2</sub> )	58.02 lb/hr	3.77 lb/hr
Carbon Monoxide (CO)	6.05 lb/hr	
Volatile Organic Compounds (VOC)	2.31 lb/hr	
Particulate Matter (PM <sub>10</sub> )	1.50 lb/hr	
Particulate Matter (PM <sub>2.5</sub> )	1.50 lb/hr	

Compliance with these emission limits shall be based on the proper operation and maintenance of the emergency diesel engine gen-sets or by testing, if required.  
(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

18. **Emission Limits (Hourly) (Fire Pump Engine)** – Emissions from the operation of the diesel engine fire pump (Ref. No. FP-1A) shall not exceed the limits specified below:

Pollutant	John Deere 4045TF290 (Ref. No. FP-1A)
Nitrogen Oxides (NO <sub>x</sub> as NO <sub>2</sub> )	0.62 lb/hr
Particulate Matter (PM <sub>10</sub> )	0.05 lb/hr
Particulate Matter (PM <sub>2.5</sub> )	0.05 lb/hr

Compliance with these pollutant emission limits shall be based on the proper operation and maintenance of the emergency diesel engine fire pumps or by testing, if required.  
(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

19. **Emission Limits (Hourly) (Fire Pump Diesel Engine)** – Emissions from the operation of the diesel engine fire pump (Ref. No. FP-3) shall not exceed the limits specified below:

Pollutant	Ref. No. FP-3
Nitrogen Oxides (as NO <sub>2</sub> )	0.39 lb/hr
Carbon Monoxide (CO)	0.08 lb/hr
Volatile Organic Compounds (VOC)	0.03 lb/hr
Particulate Matter (PM <sub>10</sub> )	0.03 lb/hr
Particulate Matter (PM <sub>2.5</sub> )	0.03 lb/hr

Compliance with these pollutant emission limits shall be based on the proper operation and maintenance of the emergency diesel engine gen-sets or by testing, if required.  
(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

20. **Emission Limits (Annual)** – Emissions from the operation of the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) and non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), shall not exceed the limits specified below:

Pollutant	Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142 (All Units Combined)	Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348 (All Units Combined)		Ref. Nos. 1 through 142 and 301 through 348 All Operations (All Units Combined)
		Without SCR	With SCR	
Nitrogen Oxides (NO <sub>x</sub> as NO <sub>2</sub> )	80.97 tpy	10.68 tpy	2.71 tpy	94.36 tpy
Carbon Monoxide (CO)	44.19 tpy	2.44 tpy	9.55 tpy	56.18 tpy
Volatile Organic Compounds (VOC)	8.36 tpy	1.15 tpy	4.48 tpy	13.99 tpy
Particulate Matter (PM <sub>10</sub> )	2.87 tpy	0.34 tpy	1.34 tpy	4.55 tpy
Particulate Matter (PM <sub>2.5</sub> )	2.87 tpy	0.34 tpy	1.34 tpy	4.55 tpy

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with the annual pollutant emission limits may be determined as stated in Conditions 14 and 15.  
(9VAC5-80-1180) [9/15/2023]

21. **Visible Emission Limit** – Visible emissions from each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) exhausts shall not exceed 5% opacity except during one 6-minute period in any one hour in which visible emissions shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.

During startup and shutdown, visible emissions from each emergency diesel engine gen-set shall not exceed 10% opacity except during one 6-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9VAC5-80-1180 and 9VAC5-50-260) [9/15/2023]

## **INITIAL COMPLIANCE DETERMINATION**

22. **Stack Test** – Initial performance tests shall be conducted on at least twenty percent (20%) of the non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) for NO<sub>x</sub> (as NO<sub>2</sub>) and CO using appropriate EPA reference methods as approved by the Regional Air Compliance Manager of DEQ's NRO to determine compliance with the emission limits contained in Condition 17.
- a. Emissions testing of each pollutant for each selected non-emergency diesel engine gen-set shall consist of three one-hour test runs under load. The average of the three runs shall be reported as the short-term emission rate for that non-emergency diesel engine gen-set.
  - b. Testing shall be performed on the outlet of the SCR catalyst bed of the non-emergency diesel engine gen-sets to demonstrate compliance with the NO<sub>x</sub> (controlled) and CO emission limits specified in Condition 17, as applicable. Testing shall be conducted with the non-emergency diesel engine gen-set operating at ≥ 90 percent of its rated capacity, unless multiple load band testing is approved by DEQ;
  - c. Recorded non-emergency diesel engine gen-set operational information shall include, but not be limited to:
    - i. Generator load/kilowatt output.



- ii. Fuel consumption and fuel sulfur content of the diesel fuel oil.
  - iii. NO<sub>x</sub> concentration before and after the catalyst;
  - iv. Urea solution consumption.
  - v. Catalyst bed exhaust temperature.
- d. Perform testing to demonstrate compliance within 120 days after the integration operational period has commenced. The integration operational period is defined as: the period of time beginning with the first time the affected unit is started on-site and ending when the affected unit is fully integrated with the source electrical system. If this deadline falls within the ozone season (May 1 through September 30) the facility shall perform testing to demonstrate compliance within 30 days after the end of the ozone season. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30;
- e. The details of the tests are to be arranged with the Regional Air Compliance Manager of DEQ's NRO. The permittee shall submit the test protocol to the Regional Air Compliance Manager of DEQ's NRO, at least thirty days prior to testing to ensure adequate time for DEQ approval. If the test protocol is received by the DEQ with less than thirty days for review and acceptance, DEQ approval may not be issued in a timely manner to allow for testing to take place according to the permittee's schedule;
- f. Should conditions occur which would require rescheduling the testing, the permittee shall notify the Regional Air Compliance Manager of DEQ's NRO, in writing, within seven (7) days of the scheduled test date or as soon as the rescheduling is deemed necessary; and
- g. Two (2) copies, one (1) paper copy and one (1) electronic copy, of the test results shall be submitted to the Regional Air Compliance Manager of DEQ's NRO within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9VAC5-50-30 and 9VAC5-80-1200) [2/12/2025]

23. **Visible Emissions Evaluation** – Concurrent with the initial performance tests required in Condition 22, Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall also be conducted by the permittee on the non-emergency diesel engine gen-sets selected for initial performance testing. The details of the tests are to be arranged with the Regional Air Compliance Manager of DEQ's NRO. The permittee shall submit a VEE protocol in conjunction with the initial stack test protocol required by Condition 22, at least 30 days prior to testing.

- a. Should conditions prevent concurrent opacity observations, the Regional Air Compliance Manager of DEQ's NRO shall be notified in writing, within seven (7) days, and visible

emissions testing shall be rescheduled within thirty-days. Rescheduled testing shall be conducted under the same operating conditions as the initial performance tests.

- b. Two copies of the test result (one hard copy and one electronic copy) shall be submitted to the Regional Air Compliance Manager of DEQ's NRO within 60 days after test completion and shall conform to the test report format enclosed with this permit (Attachment A).

(9VAC5-50-30 and 9VAC5-80-1200) [2/12/2025]

### **CONTINUING COMPLIANCE DETERMINATION**

24. **Facility Construction** – The emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engines (Ref. Nos. FP-1A and FP-3) shall be constructed so as to allow for emissions testing upon reasonable notice at any times, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.  
(9VAC5-50-30 F and 9VAC5-80-1180) [9/15/2023]

25. **Emission Testing/Visible Emissions Evaluation** – Upon request by the DEQ, the permittee shall conduct additional stack tests and/or VEEs of the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engines (Ref. Nos. FP-1A and FP-3) to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO.  
(9VAC5-80-1200 and 9VAC5-50-30 G) [9/15/2023]

### **RECORDS**

26. **On Site Records** – The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO. These records shall include, but are not limited to:
  - a. Documentation from the manufacturer that each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) is certified to meet applicable EPA emission standards.

- b. Engine information including make, model, serial number, model year, maximum engine power (bhp), and engine displacement for each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3).
- c. A monthly log of monitoring device observations as required by Conditions 3 and 4.
- d. Operation and control device monitoring records for each emergency diesel engine gen-set set equipped with a SCR (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) as required in Condition 4. This includes records of SCR catalyst bed exhaust temperature and NO<sub>x</sub> emissions measured after the catalyst, correlated to run date, engine load/kilowatt output, and diesel fuel throughput.
- e. The manufacturer's written operating instructions or procedures developed by the owner/operator that are approved by the engine manufacturer for each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engine (Ref. Nos. FP-1A and FP-3).
- f. Records of the reasons for operation for each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), including, but not limited to, the date, cause of operation, cause of the emergency, the ISO-declared emergency notification, and the hours of operation.
- g. Records, as necessary, to demonstrate compliance with the operating limitations of Condition 6, which includes, but is not limited to, the times, dates and reasons for operation of each diesel engine gen-set that was operating between May 1 and September 30.
- h. To verify compliance with Condition 7, maintain records for the non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) of:
  - i. The forecasted AQI, as determined by the AirNow website for Northern Virginia, for ozone for the days that an engine gen-set operated during the integration operational period;
  - ii. The measured AQI, as determined by the AirNow website for Northern Virginia, for ozone for the days that an engine gen-set operated during the integration operational period;

- iii. Documentation recording any Air Alerts issued for that operating day, as determined by Airnow-EnviroFlash; and
- iv. Details of commissioning activities, to include, but not limited to, clock hours, and duration.
- i. Monthly and annual hours of operation of each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), with annual hours of operation calculated monthly as the sum of each consecutive 12-month period.
- j. Monthly and annual hours of operation of each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142 for purposes of scheduled maintenance checks and readiness testing (Scheduled MCRT), with annual hours of operation calculated monthly as the sum of each consecutive 12-month period.
- k. Monthly and annual hours of operation of each diesel engine fire pump (Ref. Nos. FP-1A and FP-3), with annual hours of operation calculated monthly as the sum of each consecutive 12-month period.
- l. All fuel supplier certifications.
- m. Daily and annual fuel consumption of each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) and each non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) for all purposes, with annual fuel consumption calculated daily as the sum of each consecutive 365-day period.
- n. Daily and annual fuel consumption for the combined operation of the one hundred fifteen (115) emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), with annual fuel consumption calculated daily as the sum of each consecutive 365-day period, to verify compliance with the throughput limitation specified in Condition 14.
- o. Daily and annual fuel consumption for the combined operation of the seventy-five (75) non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) when emissions are uncontrolled, for all purposes, with annual fuel consumption calculated daily as the sum of each consecutive 365-day period, to verify compliance with the throughput limitation specified in Condition 15.a.
- p. Daily and annual fuel consumption for the combined operation of the seventy-five (75) non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122,

129 through 136, and 301 through 348) when emissions are controlled with SCR, for all purposes, with annual fuel consumption calculated daily as the sum of each consecutive 365-day period, to verify compliance with the throughput limitation specified in Condition 15.b.

- q. Daily and annual emissions calculations for NO<sub>x</sub> (as NO<sub>2</sub>), CO, VOC, PM<sub>10</sub>, and PM<sub>2.5</sub> from the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142) and non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), with annual emissions, calculated daily, as the sum of each consecutive 365-day period, to verify compliance with the annual emission limits in Condition 20.
- r. Results of all stack tests, and VEEs.
- s. Records of scheduled maintenance and unscheduled maintenance and operator training.
- t. Records of changes in settings that are permitted by the manufacturer of the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348), and fire pump diesel engines (Ref. Nos. FP-1A and FP-3).

Compliance for the consecutive 12-month period in the subsections above (as applicable for the items above) shall be demonstrated monthly by adding the total for the most recently completed month to the individual monthly totals for the preceding 11 months.

Compliance for the consecutive 365-day period (as applicable for the items above) shall be demonstrated daily by adding the total for the most recently completed day to the individual daily totals for the preceding 364 days.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-1180 and 9VAC5-50-50) [9/15/2023]

## **NOTIFICATIONS**

27. **Initial Notifications** – The permittee shall furnish written notification of the items below to the Regional Air Compliance Manager of the DEQ's NRO at the following address:

Regional Air Compliance Manager  
Department of Environmental Quality  
13901 Crown Court  
Woodbridge, VA 22193

- a. The actual date on which construction of each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) commenced within 30 days after such date. Along with this notification, the information below shall be included:
  - i. Name and address of the permittee;
  - ii. The address of the affected source;
  - iii. Engine information, including make, model, engine family, serial number, model, year, maximum engine power and engine displacement; and
  - iv. Fuel used.
- b. The actual start-up date of each emergency diesel engine gen-set (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-set (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) and fire pump diesel engine (Ref. Nos. FP-1A and FP-3) within 15 days after such date.

(9VAC5-50-50 and 9VAC5-80-1180) [9/15/2023]

### **GENERAL CONDITIONS**

28. **Permit Invalidation** – This permit to construct the emergency diesel engine gen-sets (Ref. Nos. 1 through 92, 98 through 107, 121, 123 through 128, and 137 through 142), non-emergency diesel engine gen-sets (Ref. Nos. 93 through 97, 108 through 120, 122, 129 through 136, and 301 through 348) and fire pump diesel engines (Ref. Nos. FP-1A and FP-3) shall become invalid, unless an extension is granted by the DEQ, if:
- a. A program of continuous construction is not commenced within 18 months from the ‘Original Permit Date’ specified in the equipment list in the Introduction section of this permit, or if,
  - b. A program of construction is discontinued for a period of 18 months or more, or is not completed within a reasonable time.

(9VAC5-80-1210)

**29. Permit Suspension/Revocation** – This permit may be suspended or revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted emissions unit;
- d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
- e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emissions limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9VAC5-80-1210 G)

**30. Right of Entry** – The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9VAC5-170-130 and 9VAC5-80-1180)

**31. Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.  
(9VAC5-50-20 E and 9VAC5-80-1180 D)

32. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause of malfunction), corrective action, preventive measures taken and name of person generating the record.  
(9VAC5-20-180 J and 9VAC5-80-1180 D)
33. **Notification for Facility or Control Equipment Malfunction** – The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQ's NRO of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour. Such notification shall be made no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within 14 days of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Regional Air Compliance Manager of the DEQ's NRO.  
(9VAC5-20-180 C and 9VAC5-80-1180)
34. **Violation of Ambient Air Quality Standard** – The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.  
(9VAC5-20-180 I and 9VAC5-80-1180)



35. **Change of Ownership** – In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current minor NSR permit issued to the previous owner. The new owner shall notify the NRO of the change of ownership within 30 days of the transfer.  
(9VAC5-80-1240)
36. **Permit Copy** – The permittee shall keep a copy of this permit on the premises of the facility to which it applies.  
(9VAC5-80-1180)

**Attachment A**

**Source Testing Report Format**

## **SOURCE TESTING REPORT FORMAT**

### **Report Cover**

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Test Dates.
4. Tester; name, address and report date

### **Certification**

1. Signed by team leader/certified observer (include certification date)
2. Signed by responsible company official
3. \*Signed by reviewer

### **Copy of approved test protocol**

### **Summary**

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity
4. \*For each emission unit, a table showing:
  - a. Operating rate
  - b. Test Methods
  - c. Pollutants tested
  - d. Test results for each run and the run average
  - e. Pollutant standard or limit
5. Summarized process and control equipment data for each run and the average, as required by the test protocol
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results
7. Any other important information

### **Source Operation**

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Sampling port location and dimensioned cross section Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions

### **Test Results**

1. Detailed test results for each run
2. \*Sample calculations
3. \*Description of collected samples, to include audits when applicable

### **Appendix**

1. \*Raw production data
2. \*Raw field data
3. \*Laboratory reports
4. \*Chain of custody records for lab samples
5. \*Calibration procedures and results
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

\* Not applicable to visible emission evaluations