PERMIT NO. 7374-121-0982-S-01-0
ISSUANCE DATE: 05/06/2025

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Quality Permit

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to and in effect under that Act,

Facility Name: **Vantage Data Centers GA2, LLC**

Facility Address: **6585 Plummer Road, SW**
Atlanta, Georgia 30331 Fulton County

Mailing Address: **2820 Northwestern Parkway**
Santa Clara, CA 95051

Facility AIRS Number: **04-13-121-00982**

is issued a Permit for the following:

The construction and operation of sixty-six (66) 2.75 MW diesel-fired emergency stationary generators, and their associated diesel-belly tanks at a computer processing, data preparation and processing facility. **This Permit is issued for the purpose of establishing practically enforceable emission limitations such that the facility will not be considered a major source with respect to Title V of the Clean Air Act Amendments of 1990.**

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 29506 dated August 29, 2024; any other applications upon which this Permit is based; supporting data entered therein or attached thereto; or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **9** pages.

STATE OF GEORGIA
CONSTITUTION
WISDOM JUSTICE MODERATION
1776

Jeffrey W. Cown

Jeffrey W. Cown, Director
Environmental Protection Division

1. General Requirements

1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection or surveillance of the source.

1.2 The Permittee shall not build, erect, install or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged into the atmosphere.

1.3 The Permittee shall submit a Georgia Air Quality Permit application to the Division prior to the commencement of any modification, as defined in 391-3-1-.01(pp), which may result in air pollution and which is not exempt under 391-3-1-.03(6). Such application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. The application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity and pollutant emission rates of the plant before and after the change, and the anticipated completion date of the change.

1.4 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and shall be retained for at least five (5) years following the date of entry.

1.5 In cases where conditions of this Permit conflict with each other for any particular source or operation, the most stringent condition shall prevail.

2. Allowable Emissions

2.1 The Permittee shall not operate the emergency generators combined, in excess of 3,735.6 hours during any period of twelve (12) consecutive months.
[Avoidance of 40 CFR Part 70]

2.2 The Permittee shall limit the operation of the emergency generators to the following criteria:
[391-3-1-.02(2)(mmm)8]

a. Operate only for routine testing and maintenance, when electric power for the local utility is not available, or during internal system failures;

b. Total annual operation for each generator is less than 500 hours per year;

c. Operation for routine testing and maintenance during the months of May through September occurs only between 10 p.m. and 4 a.m. Operation for routine testing and maintenance during the months of January through April and October through December may be done during any time of day; and

d. The facility maintains records of all operation, including the reason for the operation.

For each emergency generator that cannot meet the criteria for stationary engines at data centers found in Georgia Rule 391-3-1-.02(2)(mmm)8., the Permittee shall not discharge, or cause the discharge, into the atmosphere, from each engine, any gases which contain nitrogen oxides (NOx) in excess of 80 ppm at 15% oxygen, dry basis, during the ozone season. For purposes of this permit, the ozone season is defined as the time period beginning May 1 and ending September 30..

2.3 The Permittee shall not cause, let, suffer, permit or allow emissions from the emergency generators the opacity of which is equal to or greater than forty (40) percent opacity (6-minute average).
[391-3-1-.02(2)(b)1]

2.4 The Permittee shall comply with the 40 CFR 60, Subpart A "General Provisions" and 40 CFR 60, Subpart IIII "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" for operation of the emergency generators.
[40 CFR 60, Subparts A and IIII]

2.5 The Permittee shall operate the emergency generators according to the requirements specified below. Any operation other than emergency operation, maintenance check and readiness testing, as described below, is prohibited:
[40 CFR 60.4211(f)]

a. There is no time limit on the use of emergency stationary ICE in emergency situations.

b. The emergency generators may be operated for maintenance checks and readiness testing for a maximum of 100 hours per calendar year. The Permittee may petition the Division for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

c. The emergency generators may be operated for a maximum of 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing specified in Paragraph a. Except as provided in Condition 2.5.c.i, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

2.6 The Permittee shall fuel the emergency generators with distillate fuel oil that has a maximum sulfur content of 15 ppm (0.0015% by weight) and either a minimum cetane index of 40 or maximum aromatic content of 35 volume percent.
[40 CFR 60.4207(b), 40 CFR 1090.305 and 391-3-1-.02(2)(g) (subsumed)]

2.7 The Permittee shall comply with the 40 CFR 63, Subpart A "General Provisions" and 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [RICE]" for operation of the emergency generators.
[40 CFR 63, Subparts A and ZZZZ]

2.8 The Permittee shall not discharge or cause the discharge into the atmosphere from the diesel-fired emergency generators any emissions of non-methane hydrocarbons and nitrogen oxides (NMHC+NOx), hydrocarbons (HC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM) in an amount exceeding the emissions standards specified in 40 CFR 60.4205(b), as indicated in Table 2.8-1:
[40 CFR 60.4205(b), 40 CFR 60.4202(b)(2), and 40 CFR 1039, Appendix I(b)]

Table 2.8-1: NSPS 40 CFR Part 60. Subpart IIII Emission Standards For all Stationary 2007 and later Model Year Diesel Engines with a Displacement of Less Than 10 Liters Per Cylinder and Maximum Engine Power Of Larger Than 560 kW, with emission limits in terms of g/kW-hr (lb/HP-hr)

Pollutant	NO_x + NMHC	CO	PM
Emission Limit	6.4 (0.0105)	3.5 (0.00575)	0.20 ($3.29x10^{-4}$)

2.9 The Permittee shall not discharge or cause the discharge into the atmosphere from the emergency generators any visible emissions the opacity of which is in excess of the following:
[40 CFR 60.4205(b), 40 CFR 60.4202(b), and 40 CFR 1039.105(b)]

a. 20 percent during the acceleration mode,

b. 15 percent during the lugging mode,

c. 50 percent during the peaks in either the acceleration or lugging modes.

2.10 Fuel oil fired in the emergency generators (Source Codes: EG1 through EG66) shall be diesel fuel oil. Distillate fuel oil means fuel oil that complies with the specification for fuel oil number 1 or 2 as defined by the American Society or Testing and Materials (ASTM) standard ASTM D396, "Standard Specifications for Fuel Oils."
[391-3-1-.03(2)(c)]

3. Fugitive Emissions

3.1 The Permittee shall take all reasonable precautions with any operation, process, handling, transportation, or storage facilities to prevent fugitive emissions of air contaminants.
[391-3-1-.02(2)(n)1]

4. Process & Control Equipment

4.1 Each of the emergency generators shall be operated and maintained according to the manufacturer's written specifications/instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine.
[40 CFR 60.4211(a)]

5. Monitoring

5.1 Any continuous monitoring system or device required by the Division and installed by the Permittee shall be in continuous operation except during calibration checks, zero and span adjustments or period of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

5.2 The Permittee shall install, calibrate, maintain, and operate a non-resettable continuous monitoring system (or device) for each emergency generator to track the hours operated during emergency service and the hours of operation in non-emergency service (maintenance and/or testing); to record the reason the engine was in operation during those times, and to record the cumulative total hours of operation. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
[40 CFR 60.4209(a) and 391-3-1-.02(6)(b)1]

5.3 The Permittee shall verify that each shipment of diesel fuel oil received for combustion in each emergency generator is distillate oil, No. 2 fuel oil, No. 2 diesel fuel oil or very low sulfur diesel fuel oil and that the oil complies with the requirements of Condition 2.10. Verification shall consist of either of the following:

a. Fuel oil receipts obtained from the fuel supplier certifying that the oil is distillate oil, No. 2 fuel oil, No. 2 diesel fuel oil, or very low sulfur diesel fuel oil. Fuel supplier certification shall include the following information: (1) the name of the oil supplier and (2) a statement from the oil supplier that the oil complies with the specifications under the definition of distillate fuel oil; or

b. Analysis of the fuel oil conducted by methods sampling and analysis, which have been specified or approved by the Division.

6. Performance Testing

6.1 The Permittee shall cause to be conducted a performance test at any specified emission point when so directed by the Division. The following provisions shall apply with regard to such tests:

a. All tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.

b. All test results shall be submitted to the Division within sixty (60) days of the completion of testing.

c. The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

d. All monitoring systems and/or monitoring devices required by the Division shall be installed, calibrated and operational prior to conducting any performance test(s). For any performance test, the Permittee shall, using the monitoring systems and/or monitoring devices, acquire data during each performance test run. All monitoring system and/or monitoring device data acquired during the performance testing shall be submitted with the performance test results.

6.2 If the Permittee does not install, configure, operate, and maintain the engine and any associated control device, if applicable according to the manufacturer's emission-related written instructions, or the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows:
[40 CFR 60.4211(g)]

The Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. The Permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.

7. Notification, Reporting and Record Keeping Requirements

7.1 The Permittee shall submit written notification of startup to the Division within 15 days after such date. The notification shall be submitted to:
Mr. Sean Taylor
Stationary Source Compliance Program
4244 International Parkway, Suite 120
Atlanta GA 30354

7.2 The Permittee shall maintain monthly operating records for each emergency generator in emergency and non-emergency service, as recorded on the non-resettable hour meter required for each generator in Condition 5.2. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. Records shall be maintained for a period of five (5) years in a format suitable for inspection by or submission to the Division.
[40 CFR 60.4214(b) and 391-3-1-.02(6)(b)1]

7.3 The Permittee shall use monthly emergency service operating time data required by Condition 7.2 to calculate monthly the twelve-month rolling total of the emergency service operating time for each generator for each consecutive twelve-month period. All the calculations shall be kept as part of the records required in Condition 7.2. The Permittee shall notify the Division in writing within 15 days if any of the twelve-month rolling total emergency service operating time equals or exceeds 500 hours. This notification shall include an explanation of how the Permittee intends to attain future compliance with Condition 2.2.
[391-3-1-.02(6)(b)1]

7.4 The Permittee shall use monthly non-emergency service operating time data required by Condition 7.2 to calculate monthly the twelve-month rolling total of the non-emergency service operating time for each generator for each consecutive twelve-month period. All the calculations shall be kept as part of the records required in Condition 7.2. The Permittee shall notify the Division in writing within 15 days if any of the twelve-month rolling total of non-emergency service operating time equals or exceeds 100 hours. This notification shall include an explanation of how the Permittee intends to attain future compliance with Condition 2.5.
[40 CFR 60.4211(f)(3) and 391-3-1-.02(6)(b)1]

7.5 The Permittee shall use the records required in Condition 7.2 to calculate the total operating time of the emergency generators on a monthly basis and the twelve-month rolling total operating time for each consecutive twelve-month period to demonstrate compliance with Condition 2.1. All the calculations shall be kept as part of the records required in Condition 7.2. The Permittee shall notify the Division in writing within 15 days if the twelve-month rolling total of non-emergency service operating time equals or exceeds 3,735.6 hours. This notification shall include an explanation of how the Permittee intends to comply with Condition 2.1.
[Avoidance of 40 CFR Part 70]

7.6 The Permittee shall demonstrate compliance with emission standards specified in 40 CFR 60, Subpart IIII for the emergency generators (Source Codes: EG1 through EG66) by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications. These records shall be maintained in a format suitable for inspection or submittal.
[40 CFR 60.4211(c)]

7.7 The Permittee shall submit an annual report with the requirements specified in 40 CFR 60.4214(d) if the emergency generators (Source Codes: EG1 through EG66) are operated for the purpose specified in 40 CFR 60.4211(f)(3)(i).
[40 CFR 60.4214(d)]

7.8 The Permittee shall keep records verifying that each shipment of distillate fuel oil received for firing the generators at the facility complies with the applicable requirements in Condition 2.6. Verification shall consist of the fuel oil receipts and/or fuel supplier certifications, or results of analyses of the fuel oils conducted by methods of sampling and analysis, which have been specified or approved, by the EPA or the Division. These records shall be kept available for inspection or submittal for five (5) years from the date of record.
[391-3-1-.02(6)(b)1]

8. Special Conditions

8.1 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.

8.2 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of the fee shall be determined each year in accordance with the "Procedures for Calculating Air Permit Application & Annual Permit Fees."

ATTACHMENT A

Source Code	Description
EG1 – EG66	CAT 3516e 2,750-kW Stationary Diesel Generator/Engine