



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Quality – Permit Amendment

In accordance with 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 or in effect under that Act, Permit No. 7374-113-0073-S-01-0 issued on October 11, 2023, to:

Facility Name: QTS Fayetteville I, LLC
Facility Address: 1435 Hwy 54 West
Fayetteville, Georgia 30214, Fayette County
Mailing Address: 6431 Longhorn Dr
Irving, Texas 75063
Facility AIRS Number: 04-13-113-00073

for the following: **The construction and operation of two additional diesel-fired emergency generators.**

is hereby amended as follows: **The construction and operation of 28 additional diesel-fired emergency generators and two additional diesel-fired fire pumps.**

Reason for Amendment: 29366, signed July 17, 2024

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 page(s).

This Permit Amendment is hereby made a part of Permit No. 7374-113-0073-S-01-0 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.



Jeffrey W. Cown

Jeffrey W. Cown, Director
Environmental Protection Division

State of Georgia
Department of Natural Resources
Environmental Protection Division

Permit Amendment No.
7374-113-0073-S-01-2

Page 1 of 3

2. Allowable Emissions

MODIFIED CONDITIONS

- 2.1 The Permittee shall not cause, let, suffer, permit, or allow the total consumption of diesel fuel to exceed 670,000 gallons during any 12 consecutive month period in the emergency generators (Source Code: EG001 through **EG235**) and **fire pumps (Source Codes: FP001 and FP002)**.
[Avoidance of Part 70]
- 2.2 The Permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A – “General Provisions” and Subpart III – “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” for the operation of the emergency generators (Source Codes: EG001 through **EG235**) and **fire pumps (Source Codes: FP001 and FP002)**.
[40 CFR 60 Subpart A and Subpart III]
- 2.4 The Permittee shall not discharge into or cause the discharge into the atmosphere from the emergency generators **and fire pumps** defined in Condition 2.2, any visible emission the opacity of which is equal to or greater than 20 percent during the acceleration mode, 15 percent during the lugging mode, and 50 percent during the peaks in either the acceleration or lugging modes per 40 CFR 1039.105.
[40 CFR 60.4202(a)(2), 40 CFR 60.4205(b), and 40 CFR 1039.105(b)]
- 2.5 The Permittee shall use diesel fuel with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent in the emergency generators (Source Codes: EG001 through **EG235**) and **fire pumps (Source Codes: FP001 and FP002)**.
[40 CFR 60.4207, 40 CFR 1090.306, and 391-3-1-.02(2)(g) (subsumed)]
- 2.6 The Permittee shall comply with the emission standards in Condition 2.3 and 2.4 by purchasing an engine certified to the emission standards for the model year and maximum engine power. The engine shall be installed and configured according to the manufacturer’s emission-related specifications.
[40 CFR 60.4211(c)]
- 2.8 The Permittee shall limit the operation of the emergency generators (Source Codes: EG001 through **EG235**) 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

State of Georgia
Department of Natural Resources
Environmental Protection Division

Permit Amendment No.
7374-113-0073-S-01-2

Page 2 of 3

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

For each emergency generator that cannot meet the definition of “Emergency standby stationary engine” found in Georgie Rule 391-3-1-.02(2)(mmm)8 for data centers, the Permittee shall not discharge, or cause the discharge, into the atmosphere, from each engine, any gases which contain nitrogen oxides (NO_x) 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.

- 2.9 The Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart A – “General Provisions” and Subpart ZZZZ – “National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” for the operation of the emergency generators (Source Codes: EG001 through **EG235**) and fire pumps (Source Codes: **FP001** and **FP002**).
[40 CFR 63 Subpart A and Subpart ZZZZ]
- 2.10 The Permittee shall not discharge or cause the discharge into the atmosphere from the emergency generators (Source Code: EG001 through **EG235**) and fire pumps (Source Codes: **FP001** and **FP002**) any gases which exhibit opacity equal to or greater than 40 percent.
[391-3-1-.02(2)(b)]

NEW CONDITIONS

- 2.12 **The Permittee shall not discharge or cause the discharge into the atmosphere from the fire pumps (Source Codes: FP001 and FP002) emissions of non-methane hydrocarbons and nitrogen oxides (NMHC+NO_x), hydrocarbons (HC), nitrogen oxides (NO_x), carbon monoxide (CO), and particulate matter (PM) in an amount exceeding the emission standards specified in Table 2.12-1.**
[40 CFR 60.4205(c) and Table 4 to Subpart IIII of Part 60]

Table 2.12-1 Table 4 to Subpart IIII of Part 60 – Emission Standards for Stationary Fire Pump Engines, in g/KW-hr (g/HP-hr)

Pollutant	NMHC+NO _x	CO	PM
Emission limitation	4.0 (3.0)	5.0 (3.7)	0.30 (0.22)

- 2.13 The Permittee shall comply with the emission standards in Condition 2.12 and 2.4 by purchasing an engine certified to the emission standards for the model year and maximum NFPA nameplate engine power. The engine shall be installed and configured according to the manufacturer’s emission-related specifications.
[40 CFR 60.4211(c)]

4. **Process & Control Equipment**

NEW CONDITOINS

- 4.2 Each fire pump that achieves the emission standards required in Conditions 2.4 and 2.12 shall be operated and maintained according to the manufacturer’s written

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit Amendment No.
7374-113-0073-S-01-2**

Page 3 of 3

**specifications/instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of each pump.
[40 CFR 60.4211(a) and 40 CFR 60.4206]**

5. Monitoring

MODIFIED CONDITIONS

- 5.1 The Permittee shall install, calibrate, maintain, and operate a non-resettable continuous monitoring system (or device) for each emergency generator (Source Code: EG001 through **EG235**) and fire pump (Source Codes: **FP001** and **FP002**) to monitor and record the hours operated during emergency service, to monitor and record the hours of operation in non-emergency service (maintenance and/or testing), and to monitor and 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)]

7. Notification, Reporting and Record Keeping Requirements

MODIFIED CONDITIONS

- 7.2 The Permittee shall keep records of the following for the emergency generators (Source Code: EG001 through **EG235**) and the fire pumps (Source Codes: **FP001** and **FP002**).
[40 CFR 60.4211(a) and 40 CFR 60.4211(c)]
- a. Documentation from the engine manufacturer that the engine is certified to meet the emission standards of 40 CFR 60 Subpart IIII. The engine manufacturer certifications shall be kept for the life of the engine.
 - b. Copy of the manufacturer's written operating and maintenance instructions or operating and maintenance procedures developed by the Permittee that are approved by the engine manufacturer. Records shall be maintained for a period of five (5) years in a format suitable for inspection by or submission to the Division.
- 7.4 The Permittee shall keep monthly records of all fuel burned in the emergency generators (**Source Codes: EG001 through EG235**) and the fire pumps (**Source Codes: FP001 and FP002**) at the facility for five years after the date and year of record. The records shall be available for inspection or submittal to the Division, upon request, and contain the fuel supplier certifications or fuel oil analysis required in Condition 7.3.
[Avoidance of Part 70]
- 7.5 The Permittee shall not be required to submit an initial notification for each emergency generator and fire pump. The Permittee shall record and maintain monthly records for each emergency generator and fire pump using the non-resettable hour meter as required by Condition 5.1, including records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. **The owner must record the time of operation of the engine and the reason the engine was in operation during that time.**
[60.4214(b)]