

**GOVERNMENT OF THE DISTRICT OF COLUMBIA**  
Department of Energy and Environment

**FACT SHEET AND STATEMENT OF BASIS  
FOR PROPOSED PERMITTING ACTION  
UNDER 20 DCMR 300 (TITLE V-OPERATING PERMIT PROGRAM)**

This “Fact Sheet and Statement of Basis” has been prepared pursuant to 20 DCMR 303.1(c) and 40 CFR 70.7(a)(5).

**PERMIT NO. 049**

**APPLICANT AND PERMITTEE:**

AT&T Corporation (AT&T)  
PO Box 5095, Room 4W200M  
San Ramon, CA 94583

**FACILITY LOCATION:**

AT&T Corporation (AT&T)  
725 13<sup>th</sup> Street NW,  
Washington, DC 20005

**FACILITY DESCRIPTION:**

AT&T Corporation (“AT&T”) submitted an application, dated August 10, 2016 (received August 17, 2016), for an initial Title V operating permit for its site located at 725 13th Street NW, Washington, DC 20005 (“the site”). The site contains three (3) reciprocating internal combustion engines (“RICE”) that drive emergency generators that are used to provide emergency power for the site’s telecommunications operations. The units are each permitted under Chapter 2 permits as follows:

<b>Chapter 2 Permit No.</b>	<b>Unit ID and Installation Year</b>	<b>Generator Output/ Engine Output</b>	<b>Description</b>
6249-R1	Emergency Generator 1, Installed 1998	1,600 kWe/ 2,145 hp	One diesel-fired emergency standby generator set, not subject to the New Source Performance Standards (Non-NSPS).
6250-R1	Emergency Generator 2, Installed 1998	1,600 kWe/ 2,145 hp	One diesel-fired emergency standby generator set, not subject to the New Source Performance Standards (Non-NSPS).
6549-R1	Emergency Generator 3, Installed 2011	1,750 kWe/ 2,561 hp	One diesel-fired emergency standby generator set, subject to NSPS Subpart III.

Permit Nos 6249-R1 and 6250-R1 were issued to change the permitted fuel for each unit from kerosene to ultra-low sulfur diesel (“ULSD”) fuel, and included a limit on hours of operations of

**Fact Sheet and Statement of Basis****Title V Permit No. 049****AT&T Corporation**

March 28, 2017

Page 2

340 per year for each unit to avoid Non-attainment New Source Review ("NNSR") permitting. The only other equipment on the site are three (3) 300 gallon aboveground storage tanks and one (1) 13,800 gallon underground storage tank, each for the storage of ULSD fuel.

**EMISSIONS SUMMARY:**

The facility reported the following emissions in the Title V permit application:

<b>FACILITY WIDE EMISSIONS SUMMARY [TONS PER YEAR]</b>		
<b>Criteria Pollutants</b>	<b>Estimated Future Actual Emissions</b>	<b>Potential Emissions</b>
Sulfur Dioxide (SO <sub>2</sub> )	0.001	0.02
Oxides of Nitrogen (NO <sub>x</sub> )	1.24	24.7
Total Particulate Matter (PM Total)	0.03	0.58
Volatile Organic Compounds (VOC)	0.05	0.97
Carbon Monoxide (CO)	0.26	4.9
Total Hazardous Air Pollutants (Total HAP)	0.001	0.015

**BASIS OF 20 DCMR CHAPTER 3 (TITLE V) APPLICABILITY:**

The facility has the potential to emit approximately 24.7 tons per year ("TPY") of NO<sub>x</sub>. This value does not exceed the major source threshold in the District of Columbia of 25 TPY of NO<sub>x</sub>. However, the facility is required to obtain a Title V Operating permit as a condition of the operating permits for two of the Chapter 2 permits previously issued.

Under normal maximum operating conditions for potential to emit ("PTE") determination (i.e., 500 hours per year per emergency generator), the combined emissions of the generators would have exceeded the major source thresholds, and thus trigger an NNSR procedure. In order to avert this possibility, the facility opted for operating hour restrictions (maximum 340 hours per year of operations for generator numbers 1 and 2) to keep their potential to emit NO<sub>x</sub> under the NNSR trigger source threshold. Since the District has no synthetic minor permitting program at this time, the Air Quality Division ("AQD") of the Department of Energy and Environment ("DOEE" or "the Department") decided to use the Title V Operating Permit program as a vehicle for establishing federally enforceable limits limiting the facility's operations so as to not trigger NNSR and avoid the need to acquire emission offset and installation of lowest achievable emission rate ("LAER") equipment.

**LEGAL AND FACTUAL BASIS FOR DRAFT PERMIT CONDITIONS:**

The conditions contained in the Title V operating permit are based on underlying requirements of 20 DCMR as well as various federal regulations promulgated pursuant to the federal Clean Air Act. The regulations that are the basis of each condition are cited in the permit, except that conditions added to make another condition, with a direct underlying regulation, enforceable as a

## **Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 3

practical matter may, in some cases, not have a specific citation. These latter, un-cited conditions generally consist of monitoring, record keeping, and reporting requirements authorized under 20 DCMR 500.1.

The permit has been developed to incorporate the requirements of all applicable requirements as defined in 20 DCMR 399.1 along with additional conditions necessary to make all such requirements enforceable as a practical matter.

It should also be noted that this permit is being issued pursuant to the District's authority under 20 DCMR Chapter 2 as well as Chapter 3. When the permit is issued for public review, the public notice will reflect this fact.

Any condition of the draft Title V Permit that is enforceable by the District but is not federally-enforceable is identified in the Title V permit as such with an asterisk.

### **REGULATORY REVIEW:**

This facility has been found to be subject to the requirements of the following regulations (except as specified in notes and discussion below):

#### **Federal and District Enforceable:**

- 20 DCMR Chapter 1 - General Rules
- 20 DCMR Chapter 2 - General and Non-Attainment Area Permits
- 20 DCMR Chapter 3 - Operating Permits and Acid Rain Programs
- 20 DCMR 500 - Records and Reports
- 20 DCMR 502 - Sampling, Tests, and Measurements
- 20 DCMR 604 - Open Burning
- 20 DCMR 605 - Control of Fugitive Dust
- 20 DCMR 606 - Visible Emissions
- 20 DCMR 700 - Miscellaneous Volatile Organic Compounds (VOCs)
- 20 DCMR 704 - Stage I Vapor recovery
- 20 DCMR 774 - Architectural and Industrial Maintenance Coatings
- 20 DCMR 800 - Control of Asbestos
- 20 DCMR 801 - Sulfur Contents of Fuel Oils
- 20 DCMR 805 - Reasonably Available Control Technology for Major Stationary Sources of the Oxides of Nitrogen
- 40 CFR 51.212, 52.12, 52.30, 60.11, and 61.12 - Credible Evidence
- 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (NESHAP for RICE)
- 40 CFR 82, Subpart G - Protection of Stratospheric Ozone (Federally enforceable only except through Title V) (*Note: AQD did not make a positive determination that this regulation was*

## **Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 4

*applicable to the facility, but included it as a standard requirement in the permit.)*  
40 CFR 82, Subpart H - Halon Emissions Reduction (Federally enforceable only except through Title V) (*Note: AQD did not make a positive determination that this regulation was applicable to the facility, but included it as a standard requirement in the permit.*)

### **District Enforceable Only:**

20 DCMR 402 – Chemical Accident Prevention (*Note: AQD did not make a positive determination that this regulation was applicable to the facility, but included it as a standard requirement in the permit.*)

20 DCMR 900 - Onroad Engine Idling and Nonroad Diesel Engine Idling

20 DCMR 901 - Vehicular Exhaust Emissions

20 DCMR 902 - Lead Content of Gasoline

20 DCMR 903 - Odorous or Other Nuisance Air Pollutants

### **20 DCMR Chapter 2 – General and Non-Attainment Area Permits:**

The three (3) emergency generators are subject to permitting pursuant to Chapter 2. This permitting action is being processed pursuant to both Chapter 2 and Chapter 3. Some requirements are being established or updated pursuant to Chapter 2 authority in this permit. Without limits on the PTE of the equipment, 20 DCMR 204 (Non-attainment New Source Review) would have been triggered. Emergency Generators 1 and 2 were originally permitted pursuant to permits Nos. 6249 and 6250 on January 7, 2010 to be operated using kerosene as the only fuel. The source subsequently requested revisions to certain requirement in the permits and, on February 28, 2011, they were issued Chapter 2 permit Nos. 6249-A1 and 6250-A1. Subsequently, in a September 14, 2012 application package, AT&T requested a change to the allowable fuel from kerosene to ULSD. During the application review process, it was noticed that the PTE of the source would exceed the NNSR trigger threshold if allowed to operate at maximum of 500 hours per year, hence the permit applications were amended to request limits on operating hours for the two covered units of 340 hours per year per unit. The permits that were issued required that a Title V permit application be submitted within twelve month of issuance permit issuance to implement this approach.

### **20 DCMR Chapter 3 – Operating Permits and Acid Rain Programs:**

As discussed above, the facility was required to obtain a Title V operating permit even though its PTE has been limited to less than 25 tons per year of NO<sub>x</sub> and is therefore not directly subject to this regulation. This permitting action is intended to address the requirements of this regulation, incorporating all applicable requirements into the permit and making them (except where denoted by an asterisk) federally enforceable. In the future, if a regulation is issued allowing the Department to establish synthetic minor permits, as are used in other jurisdictions, the facility is expected to be eligible to apply for such a permit in lieu of a Chapter 3 (Title V) permit.

### **20 DCMR Chapter 5 – Source Monitoring and Testing**

Numerous monitoring and testing requirements have been placed in the permit to ensure that it is enforceable as a practical matter. The most important monitoring relates to the duration and

## **Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 5

circumstances of each operation of the units. These requirements have been included in the permit and will ensure that compliance with the operating hour restrictions can be determined and non-compliance will be reported.

### **20 DCMR Chapter 6 – Particulates**

Several sections of Chapter 6 are applicable to this facility. Section 600 is not applicable to the emergency generators as they do not meet the definition of “fuel burning equipment” (20 DCMR 199). Sections 604 (Open Burning) and 605 (Control of Fugitive Dust) are standard requirements included in all Title V permits. Section 606 covers visible emissions requirements. Specifically, 20 DCMR 606.1 is applicable to the generators. It was also noted in the permit that, as a result of a call for a state implementation plan revision (“SIP Call”) from the U.S. Environmental Protection Agency (“EPA”), it is likely that 20 DCMR 606 will be revised in the near future. The permit indicates that, when the rule is changed, the new rule will supersede the requirements currently listed in the permit.

### **20 DCMR 704 – Stage I Vapor Recovery**

The applicability of this regulation to diesel storage tanks is unclear from the language of the regulation. However, AQD has researched the documents related to the original development of the rule and has determined that it was not the intent of the rule for it to be applied to diesel storage tanks. The only storage tanks at the site are for storage of diesel fuel, so AQD has determined that this regulation is not applicable to the tanks at the facility.

### **20 DCMR 805 – Reasonably Available Control Technology for Major Stationary Sources of the Oxides of Nitrogen**

This section is not applicable as the facility has limited their emissions below the major source threshold for NO<sub>x</sub> in the District and all potentially covered equipment qualifies for exemption from the rule under 20 DCMR 805.1(c)(2).

### **40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

New Source Performance Standards (NSPS), Subpart IIII applies to one of the emergency generators (Emergency Generator 3), which was installed in 2011.

Condition III(a) of the permit has been written to include the requirements of Subpart IIII for this emergency generator.

The other generators are not subject to Subpart IIII due to their age (installed in 1998).

### **40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (NESHAP for RICE)**

Subpart ZZZZ of 40 CFR 63 regulates HAPs such as acetaldehyde, acrolein, benzene, toluene, xylene, cadmium, chromium, lead, etc, through surrogate compounds such as formaldehyde, Carbon Monoxide (CO) and/or Volatile Organic Compounds (VOC).

## **Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 6

A facility that emits or has the potential to emit 10 tons/year of any single HAP or 25 tons/year of any combination of HAPs, is consider a major source. Any source that is not a major source is an area source. Because this facility does not have the potential to emit more than 10 tons/year of a single HAP or an aggregate of more than 25 tons of total HAPs, it is not a major source. It is rather an area source. Therefore the area source MACT for Reciprocating Internal Combustion Engines (RICE) is applicable to this facility.

Subpart ZZZZ is applicable to new or reconstructed SI and CI engines at this facility. New/Reconstructed stationary engines are those manufactured or reconstructed after June 12, 2006. However, for new engines, Subpart ZZZZ refers to the New Source Performance Standard (NSPS), 40 CFR Part 60 Subpart IIII as the only set of requirements needed to ensure compliance with Subpart ZZZZ. Only emergency stationary CI engines are located at this facility based on the information provided by the applicant in the permit application. There is one new engine that falls into this category at the facility, specifically Emergency Generator 3. The permit has been drafted to include the applicable requirements found in NSPS Subpart IIII for this unit, thereby also including the applicable requirement of NESHAP Subpart ZZZZ.

This regulation also covers existing RICE. The engines powering Emergency Generators 1 and 2 are subject as existing RICE. The requirements of this standard have been included in Condition III(b), including, of particular note, the maintenance activities found in Condition III(b)(2)(G).

### **Compliance Assurance Monitoring (CAM) [40 CFR 64]:**

Compliance Assurance Monitoring Plan (CAM) does not apply to this facility because none of the units in this facility rely on control devices for compliance with emission limits. There is no need for this facility to install control devices as defined by 40 CFR 64. Therefore, CAM does not apply.

### **Chapter 2 Permits:**

The requirements of the following permit(s) issued under the authority of 20 DCMR Chapter 2 have been incorporated into the Title V permit:

- Permit Nos. 6249-R1 and 6250-R1 – Permits to operate two (2) 1,600 kWe emergency generator sets, both issued September 18, 2015.
- Permit No. 6549-R1 – Permit to operate one (1) 1,750 kWe emergency generator set, issued February 26, 2015.

For a more complete history of these permits, see the discussion of 20 DCMR Chapter 2 above.

Note that AQD is using Chapter 2 authority to update permit requirements for covered equipment, as appropriate. As such, this Title V permit will be issued for public notice pursuant to both Chapter 2 and Chapter 3 public notice requirements.

**Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 7

**ENFORCEMENT HISTORY:**

According to EPA's Enforcement and Compliance History Online (ECHO) database, there have been no enforcement actions taken against the facility in the last five years for air quality violations.

**COMMENT PERIOD:**

Beginning Date: April 7, 2017

Ending Date: May 8, 2017

All written comments should be addressed to the following individual and office:

Stephen S. Ours, P.E.  
Chief, Permitting Branch  
Department of Energy and Environment  
Air Quality Division  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002

**PROCEDURE FOR REQUESTING PUBLIC HEARING:**

During public comment period any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The District shall grant such a request if it is deemed appropriate. The venue, date, and time for any public hearing shall be announced in the District Register and a daily newspaper.

**POINT OF CONTACT FOR INQUIRIES:**

Olivia Achuko  
Environmental Engineer  
Department of Energy and Environment  
Air Quality Division  
1200 First Street NE, 5<sup>th</sup> Floor  
Washington, DC 20002  
(202) 535-2997

**Fact Sheet and Statement of Basis**

**Title V Permit No. 049**

**AT&T Corporation**

March 28, 2017

Page 8

**REVIEWS:**

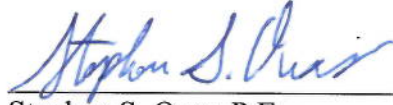
Prepared by:



Olivia Achuko  
Environmental Engineer

OA

Approved by:



Stephen S. Ours, P.E.  
Chief, Permitting Branch