

STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued:

MAR 14 2013

Permit Number:

066989P

Date Expires: October 1, 2022

Issued To:

American Tower Corporation
East Servierville #308917

Installation Address:

122 County Garage Road
Sevierville

Installation Description:

Diesel fueled emergency power generator
with 80 kW engine

Emission Source Reference No.

78-0314-01

NSPS

40 CFR Part 60 Subpart IIII

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated February 21, 2013 and is signed by Mr. Scot Sandefur, Director, EH&S for the permitted facility. If this person terminates employment or is reassigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. The maximum heat input capacity for the generator shall not exceed 307,195 British Thermal Units per hour (0.31 MMBtu/hr).
3. Operating time for non-emergency operation for this source shall not exceed 100 hours per calendar year. TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart III.
4. Only No. 2 diesel fuel shall be used as fuel for this source.
5. Pursuant to 40 CFR §60.4207(b), beginning **October 1, 2010**, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b), as follows:
 - (1) Sulfur content shall not exceed 15 ppm maximum for nonroad diesel fuel.
 - (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.
6. Particulate matter (TSP) emitted from this source shall not exceed 0.03 pound per hour. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4205(a).
7. Sulfur dioxide (SO₂) emitted from this source shall not exceed 0.50 pound per hour.

The above emission limitation is established pursuant to 1200-03-14-.01(3) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated January 21, 2013, from the permittee.
8. Carbon monoxide (CO) emitted from this source shall not exceed 0.20 pound per hour. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4205(a).
9. Volatile organic compounds (VOCs) emitted from this source shall not exceed 0.81 pound per hour. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4205(a).
10. Nitrogen oxides (NO_x) emitted from this source shall not exceed 0.81 pound per hour. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4205(a).
11. Compliance with the emission limits in **Conditions 6, 7, 8, 9, and 10** is based on compliance with **Conditions 2 and 4** of this permit; and from the actual exhaust during a 5-mode test by the manufacturer, Generac.
12. The generator shall be equipped with a non-resettable hour meter prior to startup of the engine. TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart III.
13. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six-minute period in any one (1) hour period and for no more than four (4) six-minute periods in any twenty-four (24) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). TAPCR 1200-03-05-.03(6) and TAPCR 1200-03-05-.01(1)

(conditions continued on next page)

14. Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing on such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator 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 year. For owners and operators of emergency engines meeting standards under 40 CFR §60.4205 but not 40 CFR §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.
15. The permittee shall keep a log of the number of operating hours for each month and each twelve (12) consecutive month interval at this source, in a form that readily provides the information required in the following table and shows compliance with **Conditions 3 and 14**. All data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required. The permittee shall retain this record at the source location for a period of not less than two (2) years and keep this record available for inspection by the Technical Secretary or their representative. TAPCR 1200-03-10-.02(2)(a).

MONTHLY/YEARLY LOG: Source 78-0314-01

Year:					
Month	Hours Per Month	Hours Per 12 Consecutive Months	Month	Hours Per Month	Hours Per 12 Consecutive Months
January			July		
February			August		
March			September		
April			October		
May			November		
June			December		

The "Hours per 12 consecutive months" values are the sum of the hours in the 11 months preceding the month just completed + the hours in the month just completed. If data is not available for the 11 months preceding the initial use of this table, this value will be equal to the hours per month. For the second month it will be the sum of the first month and the second month. Indicate in parentheses the number of months summed [i.e., 3 (2) represents 3 hours operated in 2 months].

16. This permit is valid only at this location.
17. Operating time for this source shall not exceed 500 hours per calendar year. TAPCR 1200-03-09-.03(8) and 40 CFR Part 60 Subpart III
18. The permittee shall operate and maintain the stationary CI internal combustion engine and control device 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. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4211(a)

(conditions continued on next page)

19. The General Provisions of 40 CFR 60 shall apply to this source as indicated in the following table. TAPCR 1200-03-09-.03(8) and 40 CFR §60.4218.

General Provisions citation	Subject of citation	Explanation
§60.1	General applicability of the General Provisions	
§60.2	Definitions	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	
§60.4	Address	
§60.5	Determination of construction or modification	
§60.6	Review of plans	
§60.7	Notification and Recordkeeping	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
§60.9	Availability of information	
§60.10	State Authority	
§60.11	Compliance with standards and maintenance requirements	Requirements are specified in subpart IIII.
§60.12	Circumvention	
§60.13	Monitoring requirements	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
§60.14	Modification	
§60.15	Reconstruction	
§60.16	Priority list	
§60.17	Incorporations by reference	
§60.18	General control device requirements	
§60.19	General notification and reporting requirements	

(conditions continued on next page)

20. This source shall comply with all applicable state and federal air pollution regulations. This includes, but is not limited to, federal regulations published under 40 CFR 63 for sources of hazardous air pollutants and 40 CFR 60, New Source Performance Standards.
21. This source shall operate in accordance with the terms of this permit and the information submitted in the approved permit application.
22. The permittee shall apply for renewal of this permit not less than sixty (60) days prior to the permit expiration date, pursuant to Division Rule 1200-03-09-.02(3).

(end of conditions)

The permit application gives the location of this source as 35°52'41" Latitude and -83°29'3" Longitude.

CURRENT EMISSIONS REQUIREMENTS AND EMISSION SUMMARY COMPANY NAME: American Tower Corporation

1. EMISSION SOURCE REFERENCE NUMBER: 78-0314 NONATTAINMENT: ATTAINMENT: X 2. LOG #066989P

3A. PERMIT STATUS: NEW RENEWAL RELOCATION 3B. PREVIOUS PERMIT NUMBER: CONSTRUCTION: 966713P OPERATING:

4. IDENTIFY IF ONLY A PART OF THE SOURCE IS SUBJECT TO THIS REQUIREMENT	5. POLLUTANT	6. APPLICABLE REQUIREMENT(S): TN AIR POLLUTION CONTROL REGULATIONS, 40 CFR, PERMIT RESTRICTIONS, AIR QUALITY BASED STANDARDS	7. LIMITATION	8. MAX. ACTUAL EMISSIONS			9. MAX. ALLOW. EMISSIONS	
				IN UNITS OF ITEM 7	POUNDS / HOUR	TONS / YEAR	POUNDS / HOUR	TONS / YEAR
	TSP	1200-03-09-.03(8) & 40 CFR 60.4205(a)	0.03 lb/hr	0.03	0.03	0.01	0.03	0.01
	SO ₂	1200-03-14-.01(3)	0.50 lb/hr	0.50	0.50	0.13	0.50	0.13
	CO	1200-03-09-.03(8) & 40 CFR 60.4205(a)	0.20 lb/hr	0.20	0.20	0.05	0.20	0.05
	VOC	1200-03-09-.03(8) & 40 CFR 60.4205(a)	0.81 lb/hr	0.81	0.81	0.20	0.81	0.20
	NO _x	1200-03-09-.03(8) & 40 CFR 60.4205(a)	0.81 lb/hr	0.81	0.81	0.20	0.81	0.20
	CO ₂ e	40 CFR 98	0.75 lb/hr	0.75	0.75	0.19	0.75	0.19
Visible Emissions Source	Opacity	1200-03-05-.01(1) & 1200-03-05-.03(6)	20, Method 9					
				SOURCE OF DATA FOR EMISSIONS IN ITEM 8: Application dated 2/21/13 & 966713P.				

IF THIS IS NOT A TITLE V SOURCE, IS THIS A DEFERRED SOURCE (SUBJECT TO NSPS OR NESHAPS) OR A SYNTHETIC MINOR SOURCE? IF THE ANSWER IS YES, EXPLAIN:

The emission factors for TSP, CO, VOC, & NO_x were taken from the actual exhaust during a 5-mode test by the manufacturer, Generac. Per agreement letter dated January 21, 2013, the company has agreed to a limit of 0.50 lb/hr and 0.13 tpy for SO₂

Engineering Protection Specialist: HLC Date: 3/11/13 Reviewed by: SMS Date: 3/13/13