

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



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: **APR 16 2012**

Permit Number:

965492P

Date Expires: March 1, 2013

Issued To:

American Tower Corp.

Installation Address:

4309 Douglas Dam Road  
Kodak

Installation Description:

Emergency Backup Generator (131 hp) with 500 Gallon Fuel Tank

Emission Source Reference No.

78-0229-01

NSPS (40 CFR 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 14, 2012, and is signed by Scot D. Sandefur, EHS Director for the permitted facility. If this person terminates employment or is assigned 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**

CN-0754 (Rev. 9-92)

RDA-1298

2. The stated design heat input capacity for this source is 0.85 Million British Thermal Units per hour (MMBtu/hr), based on the stated fuel consumption of 5.8 gallons per hour at 100% load. The Technical Secretary may require the permittee to prove compliance with this rate. Tennessee Air Pollution Control Regulations (TAPCR) 1200-03-09-.01(1)(d) and the application dated August February 14, 2012.
3. Only diesel shall be used as fuel for this engine. TAPCR 1200-03-09-.01(1)(d) and the application dated August February 14, 2012.
4. Particulate Matter (TSP) emitted from this engine shall not exceed 0.6 lb/MMBtu (0.5 pounds per hour). Compliance with this emission limit shall be assured by compliance with **Conditions 2 and 3** of this permit. TAPCR 1200-03-06-.02(2).
5. Sulfur Dioxide (SO<sub>2</sub>) emitted from this engine shall not exceed 0.1 pounds per hour (lb/hr) on a daily average basis. Compliance with this emission limit shall be assured by compliance with **Conditions 2, 3, and 9** of this permit. TAPCR 1200-03-14-.03(5).
6. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity except for one six-minute period per one (1) hour or more than twenty four (24) minutes in any twenty four (24) hours. Visible emissions from this source shall be determined by EPA Method 9, as published in 40 CFR 60, Appendix A (six-minute average). Tennessee Air Pollution Control Regulations (TAPCR) 1200-03-05-.01(3) and 1200-03-05-.03(6).
7. Pursuant to 40 CFR §63.6590(a)(2)(iii), this emission source is "a new stationary RICE located at an area source of HAP emissions" and must meet the requirements of 40 CFR Part 60 Subpart IIII. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ. TAPCR 1200-03-09-.03(8), §63.6590(a)(2)(iii), and §63.6590(c)
8. Carbon Monoxide (CO), nitrogen oxides (NO<sub>x</sub>), and nonmethane hydrocarbons (NMHC) emitted from this source shall not exceed the limits specified in Table 1 over the entire life of the engine. Compliance with these emission limits shall be assured by compliance with **Condition 11** of this permit. TAPCR 1200-03-09-.03(8), §§60.4205(b) and 60.4206.

<b>Table 1: NO<sub>x</sub>, CO, and VOC Emission Standards (40 CFR 60 Subpart IIII and 40 CFR 89)</b>		
<b>Engine Type</b>	<b>Emission Standards (g/kW-hr)</b>	
	<b>NMHC + NO<sub>x</sub></b>	<b>CO</b>
2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines, rated power between 75 and 225 kW	4.0	5.0

9. Diesel fuel used by this source shall comply with the requirements of 40 CFR §80.510(b) for nonroad diesel fuel. TAPCR 1200-03-09-.03(8) and §60.4207
10. Operating time for non-emergency operation for this source shall not exceed 100 hours per calendar year. The permittee shall install a non-resettable hour meter prior to startup of the engine. A log of the operating hours (Table 2) must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. 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. This log must be retained for a period of not less than two years.

<b>Table 2: Operating Hours Log for Calendar Year _____</b>					
<b>78-0229-01</b>					
<b>Month</b>	<b>Total Operating Hours</b>	<b>Non-Emergency Operating Hours</b>	<b>Month</b>	<b>Total Operating Hours</b>	<b>Non-Emergency Operating Hours</b>
January			July		
February			August		
March			September		
April			October		
May			November		
June			December		

TAPCR 1200-03-09-.03(8), §60.4209(a) and §60.4211(f), TAPCR 1200-03-10-.02(2)(a).

(conditions continued on next page)

## 11. The permittee shall:

- (a) Operate and maintain this source according to the manufacturer's emission-related written instructions and change only those emission-related settings that are permitted by the manufacturer; or
- (b) Comply with the following requirements:
  - (i) Keep a maintenance plan and records of conducted maintenance;
  - (ii) To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions;
  - (iii) Conduct 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 changing emission-related settings in a way that is not permitted by the manufacturer. Performance tests, if required, shall be conducted in accordance with 40 CFR §§60.4212(a) through (e).

TAPCR 1200-03-09-.03(8), §§60.4211(a) and (g), §60.4212

## 12. The General Provisions of 40 CFR 60 shall apply to this emission source as indicated in the Table 3.

TAPCR 1200-03-09-.03(8) and §60.4218.

Table 3: Applicability of NSPS General provisions to 78-0229-01		
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 $\geq 30$ liters per cylinder and engines that are not certified.
§60.9	Availability of information	
§60.10	State Authority	
§60.12	Circumvention	
§60.13	Monitoring requirements	Except that §60.13 only applies to stationary CI ICE with a displacement of $\geq 30$ liters per cylinder.
§60.14	Modification	
§60.15	Reconstruction	
§60.16	Priority list	
§60.17	Incorporations by reference	
§60.19	General notification and reporting requirements	

(conditions continued on next page)

13. The permittee shall apply for a standard operating permit within thirty (30) days of initial start-up of this source. TAPCR 1200-03-09-.02(1) and (3).
14. This permit shall serve as a temporary operating permit from initial start-up to the receipt of a standard operating permit, provided the operating permit is applied for as specified in **Condition 13** of this permit and the conditions of this permit and any applicable emission standards are met. TAPCR 1200-03-09-.02(2).
15. The permittee shall certify the start-up date of the air contaminant source regulated by this permit by submitting **A COPY OF ALL PAGES OF THIS PERMIT.** with the information required in A) and B) of this condition completed, to the Technical Secretary's representatives listed below:

A) DATE OF START-UP: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
month day year

B) Anticipated operating rate: \_\_\_\_ percent of maximum rated capacity

For the purpose of complying with this condition, "start-up" of the air contaminant source shall be the date of the setting in operation of the source for the production of product for sale or use as raw materials or steam or heat production.

The undersigned represents that he/she has the full authority to represent and bind the permittee in environmental permitting affairs. The undersigned further represents that the above provided information is true to the best of his/her knowledge and belief.

Signature		Date
Signer's name (type or print)	Title	Phone (with area code)

Note: This certification is not an application for an operating permit. At a minimum, the appropriate application form(s) must be submitted requesting an operating permit. The application must be submitted in accordance with the requirements of this permit.

The completed certification shall be delivered to the East Tennessee Permit Program and the Environmental Field Office at the addresses listed below, no later than thirty (30) days after the air contaminant source is started-up.

East Tennessee Permit Program  
Division of Air Pollution Control  
9th Floor, L & C Annex  
401 Church Street  
Nashville, TN 37243-1531

and

Knoxville Environmental Field Office  
Division of Air Pollution Control  
3711 Middlebrook Pike  
Knoxville, TN 37921

TAPCR 1200-03-09-.02(3)(b)

(end of conditions)

The permit application gives the location of this source as 36.004° Latitude and 83.640° Longitude.