

DEPARTMENT OF ENVIRONMENTAL QUALITY  
 AIR QUALITY DIVISION

B2808

ACTIVITY REPORT: Scheduled Inspection

FY 2015 Sched. Insp.

B280831010

FACILITY: DTE - Electric Company NORTHEAST STATION		SRN / ID: B2808
LOCATION: 6401 E EIGHT MILE RD, WARREN		DISTRICT: Southeast Michigan
CITY: WARREN		COUNTY: MACOMB
CONTACT: Joe Neruda , Environmental Specialist		ACTIVITY DATE: 09/02/2015
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: FY 2015 a level 2 scheduled inspection of DTE - Electric Company NORTHEAST STATION		
RESOLVED COMPLAINTS:		

B 2808 - SAR 2015 09 02

**DTE - Electric Company NORTHEAST STATION (B2808)**  
 6401 E. 8 Mile Road  
 Warren, Michigan 48091-2960

**MI-ROP-B2808-2012 Expires on January 7, 2017**

On September 02, 2015, I conducted a level 2 **scheduled** inspection of DTE - Electric Company NORTHEAST STATION ("DTE NES"), a Peaker Station, located at 6401 E. 8 Mile Road, Warren, Michigan 48091-2960. The inspection was conducted to determine compliance with the requirements of federal Clean Air Act; Article II, Air Pollution Control, Part 55 of Act 451 of 1994; Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD) administrative rules; and MI-ROP-B2808-2012.

During the inspection, Mr. Joe Neruda (Phone: 810- 326-6356; Cell: 313-212-3949; E-mail: [nerudaj@dteenergy.com](mailto:nerudaj@dteenergy.com)), Environmental Specialist, and Mr. David James (Cell: 313-283-2451), Substation Operator, assisted.

At this DTE's northeast station, peakers are turned on to produce electricity during any peak time; especially hot summer time. The emission units are as follows:

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU CTG12-1	No. 2 oil or natural gas fired combustion turbine generator with a 24 MW capacity at a temperature of 20°F	6-26-1971	NA
EU CTG11-1	Natural gas fired combustion turbine generator with a 20 MW capacity at a temperature of 20°F	9-9-1967	FGNATGASPKRS
EU CTG11-2	Natural gas fired combustion turbine generator with a 20 MW capacity at a temperature of 20°F	6-17-1966	FGNATGASPKRS
EU CTG11-3	Natural gas fired combustion turbine	5-31-1966	FGNATGASPKRS

	generator with a 20 MW capacity at a temperature of 20°F		
EU CTG11-4	Natural gas fired combustion turbine generator with a 20 MW capacity at a temperature of 20°F	5-31-1966	FGNATGASPKRS
EU CTG13-1	No. 2 oil fired jet turbine generator with a 23 MW capacity at a temperature of 20°F	5-15-1971	FGOILFIREDPKRS
EU CTG13-2	No. 2 oil fired jet turbine generator with a 23 MW capacity at a temperature of 20°F	5-15-1971 FGOILFIREDPKRS	

The following is gas turbine operational information:

1. FGNATGASPKRS (20 MW at 20 °F): Four natural gas only peakers. These units burnt 15.67 MM BTU per year in CY 2014.
- 2.
3. FGOILFIREDPKRS (23 MW at 20 °F) Two fuel oil only peakers. These units burnt 40,998 gallons per year in CY 2014.
4. EU CTG12-1 (24 MW at 20 °F): One dual fuel (natural gas and fuel oil) peaker. Cold start RICE engine only for this unit is present. This unit did NOT run at all in CY 2014. It appears that the unit needs substantial repairs.

All liquid fuel burned is off-road 15 ppm ULSD Diesel (FGOILFIREDPKRS. I.1 & VI). All gaseous fuel burnt is pipeline quality natural gas (FG-NATGASPKRS, III.1).

One 100,000-gallon above-ground fuel oil tank is present. One oil meter for amount of oil in the tank is present; current (September 02, 2015) reading is 76.26 kilo-gallons. While yellow pipes are used to identify NG, red pipes represent fuel oil.

**2005 Fire Vs Rule 336.1201**

To AQD, Mr. Joe Neruda will submit description of the 2005 fir incident, repairs and costs of such repairs to determine applicability of Rule 201.

**Conclusion**

Only off-road 15 ppm ULSD and pipeline quality natural gas is used in the gas turbines.

NAME J. J. Kennerhall DATE 09/04/2015 SUPERVISOR \_\_\_\_\_