

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Stack Test Observation

N294025468

FACILITY: DCP Antrim Gas LLC		SRN / ID: N2940
LOCATION: 6250 OLD STATE RD, JOHANNESBURG		DISTRICT: Cadillac
CITY: JOHANNESBURG		COUNTY: OTSEGO
CONTACT: Dave Bennett, Assistant Plant Manager		ACTIVITY DATE: 06/05/2014
STAFF: Becky Radulski	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: stack test observation - Turbine 1 and 2		
RESOLVED COMPLAINTS:		

Traveled to N2940 DCP on 6/5/14 to observe stack testing to determine compliance with ROP MI-ROP-N2940-2009a. Testing for today was on FGTUR1AND2.

Present at the testing:

BTEC: Ken, Kenny F and Steve (on stack)
AQD: Tom Gasloli, Becky Radulski
DCP: Justin (collect readings)

Arrived at site at 9 am. Following safety training met with Justin to walk through building where Turbines and back up engines are located, as well as locations of monitoring screens. During the test, kw and natural gas firing rates were being recorded by DCP in 5 minute intervals (as noted in Table 4 of the May 21, 2014 test plan provided by BTEC and DCP). Both turbines were operating during the test at max load. Justin indicated that everything that could operate was running to demonstrate max usage. If one of the turbines goes down for maintenance, 3 engines operate to replace that load. The turbines can flux with the load, where the engines run at set points and do not flux.

Testing began on Turbine 2. Test 1 had already been completed by the time I had completed safety training at 9:30 am, and BTEC was running calculations. Initial results indicated that Turbine 2 passed the NOx and CO ppm limits but failed the NOx and CO lb/hr limits of the ROP. A few hours later it was noted that there was a spreadsheet error and Turbine 2 had passed both the ppm and lb/hr limits for both NOx and CO. During Run 1 the kw and natural gas rates were not recorded, however they were recorded for all following runs.

Turbine 2, Run #2 operating notes:

Time	10:56 am	11:05 am
Load, kw	2400	2420
Natural gas firing rate	1403	1413

Testing for Turbine 1 took place in the afternoon after I left. The ppm for both NOx and CO passed, as did the CO lb/hr, however the NOx lb/hr was above permitted limits.

The unofficial lb/hr testing results for Turbine 1 and Turbine 2 were as follows:

Pollutant	ROP Limit (SC 1.2 and 4)	Turbine 1 (lb/hr)	Turbine 2 (lb/hr)
NOx	17.1	14.6	13.9
CO	2.3	2.6	2.2

NAME Becky Radulski

DATE 6/10/14

SUPERVISOR 