

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : Midland Cogeneration Venture		SRN : B6527
Location : 100 E. Progress Place		District : Saginaw Bay
		County : MIDLAND
City : MIDLAND	State: MI	Zip Code : 48640
Compliance Status :		Compliance
Source Class : MAJOR	Staff : Kathy Brewer	
FCE Begin Date : 1/1/2013	FCE Completion Date :	6/12/2014
Comments :		

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
06/12/2014	Scheduled Inspection	Compliance	On-site inspection 6/11 (turbines) - 6/12/2014 (boilers), to determine compliance with MI-ROP-B6527-2008b, PTI 103-12, MAERS, & state & federal air regulations.
06/10/2014	ROP Annual Cert	Compliance	Annual Compliance Certification CEMs downtime. Reported in quarterly CEMS/Excess Emission reports.
06/10/2014	ROP SEMI 2 CERT	Compliance	CEMs downtime and calibration missed. Reported in quarterly CEMS/Excess Emission reports.

Activity Date	Activity Type	Compliance Status	Comments
06/05/2014	Excess Emissions (CEM)	Compliance	<p>1st Qtr. 2014 Continuous Emission Monitoring Reports;</p> <p>"On 01/02/14 at 23:20 Unit 14 CO2 analyzer N1-ND-0860 needed to be sent out for calibration and was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done on 01/03/14 at 00:20. A linearity was completed at 13:48 on 01:21:14. The original analyzer N1-ND-0860 was placed back into service at 13:47 on 02/03/14 and a complete auto calibration was done. A linearity was completed at 14:48 on 02/04/14."</p> <p>"On 01/31/14 at 06:32 Unit 9 CO2 analyzer N1-ND-0860 needed to be sent out for calibration and was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done on 02/03/14 at 14:20. A linearity was completed at 14:48 on 02/04/14. The original analyzer N1-ND-0856 was placed back into service at 08:44 on 03/18/14 and a complete auto calibration was done. A linearity was completed at 09:50 on 03/18/14."</p> <p>"On 01/31/14 at 08:06 Unit 06 CO2 analyzer N1-ND-0853 needed to be sent out for calibration and was replaced with Like-Kind analyzer N1-N5-00693 and a probationary calibration was done on 02/03/14 at 11:22. A linearity was completed at 10:11 on 02/05/14. The original analyzer N1-ND-0853 was placed back into service at 10:11 on 13/18/14 and a complete auto calibration was done. Unit is in a scheduled outage, and linearity will be performed when unit is returned to service."</p>
05/16/2014	MAERS	Compliance	MAERS Certification received
05/06/2014	CEM RATA	Compliance	boilers #1-6
05/01/2014	Other	Compliance	MCV CEMS 5/29/2014 REPORT REVIEW. RFO 6/5/2014

Activity Date	Activity Type	Compliance Status	Comments
01/29/2014	Other	Compliance	MCV CEMS 1/29/2014 REVIEW. RFO 7/10/2014
11/25/2013	Excess Emissions (CEM)	Compliance	3rd Qtr 2013 Emission Monitoring Reports. NO EE > 1% operating time. NO CEMS downtime > 5 % operating time. "On 9/23/13 Unit 11 CO2 analyzer N1-ND-0862 needed to be sent out for calibration, was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done at 14:33. A linearity was completed at 13:18 on 5/13/18. The original analyzer N1-ND-0862 was placed back into service at 08:50 on 10/22/13 and a completed auto calibration was done. A linearity was completed at 09:22 on 10/22/13."
11/14/2013	Excess Emissions (CEM)	Compliance	2nd Qtr 2013 Emission Monitoring Reports. NO EE > 1% operating time. NO CEMS downtime > 5 % operating time. "On 5/13/13 Unit 3 CO2 analyzer N1-ND-0872 needed to be sent out for calibration, was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done at 09:45. A linearity was completed at 13:05 on 5/13/13. The original analyzer N1-ND-0872 was placed back into service at 07:35 on 6/26/13 and a completed auto calibration was done. A linearity was completed at 14:14 on 6/26/13."
11/12/2013	Excess Emissions (CEM)	Compliance	1st Qtr 2013 Emission Monitoring Reports. NO EE > 1% operating time. NO CEMS downtime > 5 % operating time. "On 2/19/13 Unit 5 CO2 analyzer N1-ND-0850 needed to be sent out for calibration, was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done at 8:52. A linearity was completed at 09:19 on 2/20/13. The original analyzer N1-ND-0850 was placed back into service at 8:50 on 2/20/13. A completed auto calibration was done at 1352 on 2/26/13 and a linearity at 1018 on 3/1/13."

Activity Date	Activity Type	Compliance Status	Comments
10/31/2013	Excess Emissions (CEM)	Compliance	4th Qtr 2012 Emission Monitoring Reports. NO EE > 1% operating time. NO CEMS downtime > 5 % operating time. "On 11/6/12 at 2332 Unit 8 CO2 analyzer N1-ND-0855 failed and was replaced with Like-Kind analyzer N1-ND-0852 and a probationary calibration was done at 0253 on 11/7/12. A linearity was completed at 1504 on 11/7/12. The original analyzer N1-ND-0855 was placed back into service at 1329 on 1/8/13. A completed auto calibration was done at 1358 on 1/8/13 and a linearity at 0905 on 1/17/13."
08/09/2013	ROP Annual Cert	Compliance	Boilers run infrequently. CEMS cal missed when unit brought on line outside of last cal test coverage. CEMS "status board" will be incorporated into monitoring. Cals will be run whether units operating or not until software updated to coordinate CEMS daily cals w/operating times..
08/09/2013	ROP SEMI 2 CERT	Compliance	Boilers run infrequently. CEMS cal missed when unit brought on line outside of last cal test coverage. CEMS "status board" will be incorporated into monitoring. Cals will be run whether units operating or not until software updated to coordinate CEMS daily cals w/operating times..
08/09/2013	ROP Semi 1 Cert		4/26/13, 7/26/13
08/09/2013	CEMS Test Observation	Pending	
08/09/2013	Visible Emissions Evaluation	Compliance	Unit #8 start up VE's
05/16/2013	MAERS	Compliance	
04/23/2013	Stack Test Observation	Pending	EU-11 stack test for NOx, CO & O2 due to a compressor upgrade on the turbine. Test run at 100% load w/duct burner and at 50% load w/o duct burner.
01/03/2013	Stack Test	Compliance	EU-T05 (Unit#5) Max heat input 984 MMBtu/hr combined cycle natural gas fired turbine using steam injection for NOx control. Equipped w/fogging system. Test run at 50% & 100% load. NOx & CO lbs/hr reported below Permit limits.

Name:

Kathy Baer

Date:

8/18/2014

Supervisor:

C. Ware