

N6631  
 MAWILA-FCE

DEPARTMENT OF ENVIRONMENTAL QUALITY  
 AIR QUALITY DIVISION

FCE Summary Report

Facility : DEARBORN INDUSTRIAL GENERATION	SRN : N6631
Location : 2400 MILLER RD	District : Detroit
	County : WAYNE
City : DEARBORN State: MI Zip Code : 48121	Compliance Status : Compliance
Source Class : MAJOR	Staff : Jonathan Lamb
FCE Begin Date : 5/15/2018	FCE Completion Date : 5/15/2019
Comments : FCE, FY 2019	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
05/15/2019	Scheduled Inspection	Compliance	FCE inspection, FY 2019

Activity Date	Activity Type	Compliance Status	Comments
05/09/2019	Stack Test	Compliance	<p>Revised results of formaldehyde testing performed December 4-6, 2018, on EU-BOILER1, EU-BOILER2, EU-BOILER3, EUCTG1, EUCTG2, and EUCTG3, as required per PTI No. 163-17, FGPLANT, V.1, to satisfy the "winter" testing required to be completed by January 30, 2019. Testing was performed by Montrose Air Quality Services and observed by Jon Lamb, AQD-Detroit Office, and Mark Dziadosz, AQD-TPU.</p> <p>The results were originally received by AQD on February 4, 2019; however, upon review by Gina Angellotti, AQD-TPU, it was determined that some data was missing/inaccurate so AQD requested DIG to submit a revised report.</p> <p>The boilers were fired on a blend of blast furnace gas and natural gas, while the turbines were fired on natural gas only. Based on the results, the following formaldehyde emission factors were verified:  EU-BOILER1 (Boiler 1100): <math>1.29 \times 10^{-4}</math> lb/MMBtu; EU-BOILER2 (Boiler 2100): <math>1.74 \times 10^{-4}</math> lb/MMBtu; EU_BOILER3 (Boiler 3100): <math>8.08 \times 10^{-5}</math> lb/MMBtu; EUCTG1 (Turbine 1100): <math>2.07 \times 10^{-4}</math> lb/MMBtu; EUCTG2 (Turbine 2100): <math>1.09 \times 10^{-4}</math> lb/MMBtu; and EUCTG3 (Turbine 3100): <math>1.11 \times 10^{-4}</math> lb/MMBtu.</p> <p>Note: the "winter" emission factors are higher than the "summer" emission factors determined during the testing in August 2018.</p>

Activity Date	Activity Type	Compliance Status	Comments
05/06/2019	Excess Emissions (CEM)	Compliance	1st Quarter 2019 - Part 60 Excess Emissions and RAA Report. Facility reported the following excess emissions/percent monitor downtimes for the following CEMS units: GTP1: 0% EE/0% downtime (1328 total operating hours); GT2: 0% EE/0% downtime (2087 total operating hours); GT3: 0% EE/0% downtime (2079 total operating hours); BLR1: 0% EE/0% downtime (1086 total operating hours); BLR2: 0% EE/0% downtime (1537 total operating hours); and BLR3: 0% EE/0.0% downtime (1579 total operating hours). Report was reviewed by Gina Angellotti, AQD-TPU, on May 6, 2019, and determined to be in compliance.
02/08/2019	Excess Emissions (CEM)	Compliance	4th Quarter 2018 - Part 60 Excess Emissions and RAA Report. Facility reported the following excess emissions/percent monitor downtimes for the following CEMS units: GTP1: 0% EE/0.19% downtime (~1183 total operating hours); GT2: 0% EE/0% downtime (~1763 total operating hours); GT3: 0% EE/0.01% downtime (~1732 total operating hours); BLR1: 0% EE/0% downtime (1409 total operating hours); BLR2: 0% EE/0% downtime (~1962 total operating hours); and BLR3: 0% EE/0.03% downtime (~946 total operating hours). Report was reviewed by Gina Angellotti, AQD-TPU, on February 4, 2019, and determined to be in compliance.

Activity Date	Activity Type	Compliance Status	Comments
01/16/2019	Stack Test	Compliance	<p>Results of formaldehyde testing performed August 21-23, 2018, on EU-BOILER1, EU-BOILER2, EU-BOILER3, EUCTG1, EUCTG2, and EUCTG3, as required per PTI No. 163-17, FGPLANT, V.1, to satisfy the "summer" testing required to be completed by January 30, 2019. Testing was performed by BTEC Inc. and observed by Jon Lamb, AQD-Detroit Office, and Mark Dziadosz, AQD-TPU.</p> <p>The boilers were fired on a blend of blast furnace gas and natural gas, while the turbines were fired on natural gas only. Based on results, the following formaldehyde emission factors were verified:  EU-BOILER1: 4.21x10<sup>-5</sup> lb/MMBtu; EU-BOILER2: 3.30x10<sup>-5</sup> lb/MMBtu; EU_BOILER3: 4.35x10<sup>-5</sup> lb/MMBtu; EUCTG1: 6.72x10<sup>-5</sup> lb/MMBtu; EUCTG2: 5.82x10<sup>-5</sup> lb/MMBtu; and EUCTG3: 5.41x10<sup>-5</sup> lb/MMBtu.</p> <p>QA review of the results was performed by Mr. Dziadosz on December 7, 2018.</p>
11/02/2018	Excess Emissions (CEM)	Compliance	<p>3rd Quarter 2018 - Part 60 Excess Emissions and RAA Report. Facility reported the following excess emissions/percent monitor downtimes for the following CEMS units: GTP1: 0% EE/0.55% downtime (~1039 total operating hours); GT2: 0% EE/0.28% downtime (~1941 total operating hours); GT3: 0% EE/1.78% downtime (~1909 total operating hours); BLR1: 0% EE/2.77% downtime (793 total operating hours); BLR2: 0% EE/0.38% downtime (~1392 total operating hours); and BLR3: 0% EE/1.63% downtime (~2114 total operating hours). Report was reviewed by Gina Hines, AQD-TPU, on October 31, 2018, and determined to be in compliance.</p>
09/21/2018	ROP Semi 1 Cert	Compliance	<p>No deviations reported during the compliance period January 1 through June 30, 2018.</p>

Activity Date	Activity Type	Compliance Status	Comments
09/12/2018	Malfunction Abatement Plan	Compliance	Operation and Maintenance Plan was submitted to AQD on July 25, 2018, per PTI No. 163-17, FGPLANT, S.C. III.1, which requires that DIG not operate any unit in FGPLANT unless an O&M Plan has been submitted to AQD and implemented and maintained by July 30, 2018. This submittal meets that requirement.
08/15/2018	Excess Emissions (CEM)	Compliance	2nd Quarter 2018 - Part 60 Excess Emissions and RAA Report. Facility reported the following excess emissions/percent monitor downtimes for the following CEMS units: GTP1: 0% EE/0.08% downtime; GT2: 0% EE/0.4% downtime; GT3: 0% EE/0.1% downtime; BLR1: 0% EE/0.1% downtime; BLR2: 0% EE/0% downtime; and BLR3: 0% EE/0.02% downtime. All monitor downtime was for QA calibration. Report was reviewed by Gina Hines, AQD-TPU, on August 6, 2018, and determined to be in compliance.

