DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility :	Holland BPW	, 48th Stre	eet Peaking Sta	tion	SRN :	N2586
Location :	491 E 48th S				District :	Kalamazoo
					County :	ALLEGAN
City :	HOLLAND	State:	MI Zip Code :	49423	Compliance Status :	Compliance
Source Cla	iss : MAJOF	2			Staff: Cody	/ Yazzie
FCE Begin	Date : 7/13/20	20			FCE Completio	n 7/13/2021
Comments	Comments : The facility has appeared to be in compliance during their most recent inspection. The facility has also been submitting Annual and Semi-Annual ROP certs. Along we Excess emission and CEMS downtime reports.				st recent inspection. I ROP certs. Along with	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
07/13/2021	On-site Inspection	Compliance	On-Site Inspection
05/12/2021	MAERS	Compliance	the facility submitted their MAERS report electronically.
02/09/2021	ROP Annual Cert	Compliance	There was on deviation that was reported. The deviation was previously reported on the ROP Semi 1 Cert for 2020. The deviation was an exceedance of the 22 ppm operating limit for EUTURBINE9. It occurred due to the unit operating in 'lean-lean' mode the unit was shutdown to stop it from operating in the 'lean- lean' mode.
02/09/2021	ROP SEMI 2 CERT	Compliance	No deviations were reported.

02/09/2021	Excess Emissions (CEM)	Compliance	Part 60 Continuous Emissions Monitoring System Summary Reports. Downtime Events - Duration Report Quality Assurance Testing Linearity Tests
			The facility submitted excess emissions and monitor downtime reports. The facility reported 0.00 hours of excess emission for UNIT7, UNIT8, and UNIT9. UNIT7 reported 0.92 hours of CEMS monitor downtime. This amount of downtime was 0.39% of the total time the unit was operated. UNIT8 reported 2.38 hours of CEMS monitor downtime. This amount of downtime was 35.42% of the total time the unit was operated. The facility reported that the cause of the downtime was due to the turbine being unable to successfully be started between the dates of 11/24/2020 through 12/15/2020. The facility explained
			that the plant operators attempted to start the turbine 6 separate times to determine the cause of the problem. In each of the starts the operators were unsuccessful, so the turbine never ran long enough for an online CEMS calibration to be completed. The facility has determined that the generator couldn't produce
			control card. The facility indicated that the necessary repairs are being made and do not foresee further excess downtime due to the issue. UNIT9 reported 0.00 hours of CEMS monitor downtime. This amount of downtime was 0.00% of the total time the unit was operated. The facility did experience a large percentage of operating downtime on Unit 8,
			nowever the facility the total time was only 2.38 hours and was due to a non-monitor equipment malfunction that the facility recognized and tried to diagnose. The facility appears to have made the necessary corrections. Staff does not think it is necessary to send a Violation Notice at this time, but may be warranted in the future if the facility has similar issues

-

results for Units 7-9. A summary of the testing results are as follows: Unit 9 Relative Accuracy Determination (Lbs/MMBTU) had a Nean difference of 0.00511 and a Relative Accuracy or 14.89%. To pass the Relative Accuracy or to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 9 passed on the mean of the differences value. Unit 9 Relative Accuracy Determination (PPM @ 15% O2) had a Relative Accuracy of 13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy of 8.12%. To pass the no equal to 10% of have mean difference of less than or equal to 0.002. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Acc
Determination (Lbs/MMBTU) had a Mean difference of 0.00511 and a Relative Accuracy of 14.89%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 9 passed on the mean of the differences value. Unit 9 Relative Accuracy Determination (PPM @ 15% O2) had a Relative Accuracy of 13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the mean of the reference of less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the reference of less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears
pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 9 passed on the mean of the differences value. Unit 9 Relative Accuracy Determination (PPM @ 15% O2) had a Relative Accuracy of 13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Unit 8 Relative
or equal to 0.020. Unit 9 passed on the mean of the differences value. Unit 9 Relative Accuracy Determination (PPM @ 15% O2) had a Relative Accuracy of 13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 20% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy. Unit 8 Relative
value. Unit 9 Relative Accuracy Determination (PPM @ 15% O2) had a Relative Accuracy of 13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative
13.79% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy. Unit 8 Relative
Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
mean of the reference method or be less than or equal to 10% of the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy. Unit 8 Relative
the emission limit. Unit 9 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative
Accuracy that was less than 20% the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
the mean of the reference method. Unit 8 Relative Accuracy Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy. Unit 8 Relative
Determination (Lbs/MMBTU) had a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
a Mean difference of 0.00856 and a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
a Relative Accuracy of 8.12%. To pass the Relative Accuracy needs to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
to be less than or equal to 10% or have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
have mean difference of less than or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
or equal to 0.020. Unit 8 appears to passed on both the mean of the differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
differences value and Relative Accuracy. Unit 8 Relative Accuracy Determination (PPM @
Accuracy. Unit 8 Relative
Accuracy Determination (PPM @
15% O2) had a Relative Accuracy
reference method. To pass the
Relative Accuracy needs to be
less than or equal to 20% of the
the less than or equal to 10% of
the emission limit. Unit 8 appeared
to pass on having a Relative
Accuracy that was less than 20%
the mean of the reference method.
Determination (Lbs/MMBTU) had
a Mean difference of 0.12600 and
a Relative Accuracy of 4.83%. To
pass the Relative Accuracy needs
to be less than or equal to 10% or have mean difference of less than
or equal to 0.020. Unit 7 appears
to passed on Relative Accuracy.
Unit 7 Relative Accuracy

09/29/2020	CEM RATA	Compliance	had a Relative Accuracy of 4.90% of the mean of the reference method. To pass the Relative Accuracy needs to be less than or equal to 20% of the mean of the reference method or be less than or equal to 10% of the emission limit. Unit 7 appeared to pass on having a Relative Accuracy that was less than 20% the mean of the reference method.
09/29/2020	Stack Test	Compliance	Unit 9 - Carbon Monoxide Emissions Test Report: The Stack test results showed that the CO Ib/hour emission rate was 2.99 Ib/hour of CO emissions. The Facility has a 125 pound per hour limit in the ROP. The facility appears to be in compliance.
09/29/2020	ROP Semi 1 Cert	Compliance	The facility reported one deviation in which the facility exceeded the 22 ppmv on a dry gas basis at 15% O2 limit specified in Special Condition I.1 of the ROP under EUTURBINE9. The facility indicated that the exceedance only lasted 1 hour. The reason for the exceedance was due to the unit starting to operate in 'lean- lean' mode, the operators quickly realized this, but had trouble shifting the unit from that operating load while running. The turbine was shut down to stop operating in 'lean-lean' mode. The exceedance was short term only lasting an hour. Staff believes the issue appears to be resolved with the facility taking action shutting down the turbine and getting it operating properly.

Activity Date	Activity Type	Compliance Status	Comments
09/29/2020	Excess Emissions (CEM)	Compliance	The facility submitted excess emissions and monitor downtime reports. The facility reported 0.00 hours of excess emission for UNIT7 and UNIT8. The facility did report 1.00 hours of excess emissions on UNIT9. This was roughly 0.17 of the total UNIT9 operating time. UNIT7 reported 1.55 hours of CEMS monitor downtime. This amount of downtime was 2.37% of the total time the unit was operated. UNIT8 reported 1.23 hours of CEMS monitor downtime. This amount of downtime was 1.59% of the total time the unit was operated. UNIT9 reported 1.75 hours of CEMS monitor downtime. This amount of downtime was 0.30% of the total time the unit was operated. UNIT9 reported 1.75 hours of CEMS monitor downtime. This amount of downtime was 0.30% of the total time the unit was operated. The monitors did have some down time but the amount of time was minimal in which they never exceed 2.37% of a monitors single operating time.

Name: Cody Mruno Date: 9/17/21 Supervisor: KIL 9/22/21 Page 6 of 6