

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : Michigan Ethanol d/b/a POET Biorefining - Caro	SRN : N6996
Location : 1551 Empire Drive	District : Saginaw Bay
	County : TUSCOLA
City : CARO State: MI Zip Code : 48723	Compliance Status : Compliance
Source Class : MAJOR	Staff : Sydney Bruestle
FCE Begin Date : 5/27/2014	FCE Completion Date : 6/25/2015
Comments : FCE Report	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
05/27/2015	Scheduled Inspection	Compliance	Scheduled FCE
05/18/2015	Rule 912	Non Compliance	Poet Biorefining shut down the wet scrubber for maintenance outlined in their MAP allowing them to clean the internal packing due to high differential pressure. They were unable to reroute emissions from the fermenters to the RTO resulting in an excess of VOC and Acetaldehyde. The Acetaldehyde emissions exceeded 0.67 lbs/hr and the VOC emissions exceeded 14 lbs/hr (The fermenters emitted 2823 lbs VOC and 186 lbs Acetaldehyde in 8.2 hrs). This is a violation of the permitted emission limits. The EPA is currently settling a violation with Poet for VOC and acetaldehyde emission exceedances resulting from the shut down of their wet scrubber. Poet is currently preparing to install a bypass to the thermal regenerative oxidizer to prevent future exceedances.
04/06/2015	CAM monitor downtime	Compliance	The wet scrubber was down for a total of 31.5 hours in 2014 to clean internal packing and replace a manual valve. 3 hours were the result of a high voltage power outage in fall 2014.

Activity Date	Activity Type	Compliance Status	Comments
04/06/2015	CAM Excursions/Exceedances	Compliance	In 2014 there was a total CAM Exceedance/Excursion time of 34 hrs. The excursions and exceedances include: high differential pressure in the wet scrubber inlet manual valve leak interlock and MAP issues with the RTO High voltage outage caused scrubber to go offline.
04/06/2015	ROP Annual Cert	Compliance	Inlet manual valve leak (Replaced the manual valve) High differential pressure in the wet scrubber (performed a caustic cleaning of internal packing) 3 hr average RTO temp below the permitted average, Map was revised, interlock was fixed. Scrubber went offline, power outage.
04/06/2015	ROP SEMI 2 CERT	Compliance	Inlet manual valve leak (Replaced the manual valve) High differential pressure in the wet scrubber (performed a caustic cleaning of internal packing) 3 hr average RTO temp below the permitted average, Map was revised, interlock was fixed. Scrubber went offline, power outage.
03/19/2015	ROP Other		Poet submitted corrected estimates of 2013 VOC emissions to account for EUBFCOOLER. VOC emissions were also under reported for RGDYERS, TO, TRO, corrections were made to include an additional 15 billable tons of VOC emissions to the 2015 air quality fee invoice.
01/12/2015	NSPS (Part 60)	Compliance	LDAR Report
08/19/2014	ROP Semi 1 Cert	Compliance	No deviations. glm
07/09/2014	NSPS (Part 60)	Compliance	Semi-Annual Emissions report required by 40 CFR Part 60 Subpart VVa. One leak detected in April 2014 on a connector and it was repaired. glm

Name: S. J. P. M.

Date: 6/25/15

Supervisor: C. Hare