

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

<b>Facility :</b> DTE Gas Company - Alpena Compressor Station	<b>SRN :</b> N5935
<b>Location :</b> 8512 E. ARNOLD LAKE ROAD	<b>District :</b> Saginaw Bay
	<b>County :</b> CLARE
<b>City :</b> HARRISON <b>State:</b> MI <b>Zip Code :</b> 48625	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Meg Sheehan
<b>FCE Begin Date :</b> 3/11/2016	<b>FCE Completion Date :</b> 8/2/2018
<b>Comments :</b> 2018 FCE	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
07/10/2018	Scheduled Inspection	Compliance	FCE compliance inspection.
05/30/2018	MAERS	Compliance	Mailed to Gaylord Office on March 16th
03/14/2018	ROP Annual Cert	Compliance	No deviations were reported - MS
03/14/2018	ROP SEMI 2 CERT	Compliance	No deviations were reported - MS
09/11/2017	ROP Semi 1 Cert	Compliance	First semi-annual report for Alpena compressor station reports no deviations for the first half of 2017. The engine has historically operated very little, and is contractually ready to be operated should the need arise. Engine testing was conducted earlier in the year. sgl

Activity Date	Activity Type	Compliance Status	Comments
07/07/2017	Stack Test	Compliance	<p>CO emissions testing for EUWHITESUPERIOR was conducted on May 11, 2017 to meet testing requirements of 40 CFR Part 63, Subpart ZZZZ and MI-ROP-N5935-2014b. The required testing was conducted by DTE's Environmental Management &amp; Resources, Environmental Field Services Group per the approved test plan.</p> <p>The test report appears to be complete. Calibration gas certifications provided indicated that the cal gases had not expired. Calibration records indicated that instruments were in appropriate ranges and bracketed each of the three test runs. The referenced engine was operating at &gt; 90 load at the time of testing.</p> <p>CO emission levels reported during testing were 3.5 ppm dry (corrected to 15% O2). Emission limits for the referenced parameter is &lt;47 ppm dry (corrected to 15% O2). Indicating the engine is in compliance with permit and Subpart ZZZZ conditions.</p>
05/11/2017	Stack Test Observation	Compliance	Observation of required testing of EUWHITESUPERIOR
03/29/2017	MAERS	Compliance	MAERS CERT form was received on March 14, 2017 - the Original sent to Gaylord office. Forwarded to Sag Bay office 3/20/2017. Only issue noted was that the EU descriptor for the white superior compressor still describes the unit as rich burn. However, the SCC is correct as the EU was determined to be a lean burn during 2015 testing. sgl
03/15/2017	ROP Annual Cert	Compliance	Facility reports no deviations for 2016 calendar year. Facility is an "on-call" facility that has been inactive for a number of years. sgl
03/15/2017	ROP SEMI 2 CERT	Compliance	Facility reports no deviations for 2016 calendar year. Facility is an "on-call" facility that has been inactive for a number of years. sgl
09/27/2016	ROP Semi 1 Cert	Compliance	2016 first semi cert reports no deviations in monitoring or recordkeeping for period.

Activity Date	Activity Type	Compliance Status	Comments
07/26/2016	Stack Test	Compliance	<p>On May 16-17, 2016, DTE conducted CO Emissions Compliance Testing required to determine compliance with 40 CFR Part 60, Subpart JJJJ for the Emergency Generator, and 40 CFR Part 63, Subpart ZZZZ for Compressor Engine.</p> <p>AQD received the test protocol on 4/21/16, and it was approved by AQD TPU staff on 5/2/2016. A change in test methodology (from Method 10 to FTIR) was approved by AQD TPU staff the first day of testing (5/16/2016). In addition, it was determined upon arrival, that the emergency RICE was a rich burn with catalytic control rather than the lean burn without control anticipated. The initial O2 emissions were extremely low (less than 0.1 percent O2) and there was concern that correction to 15% O2 would result in biased results. Discussions between TPU Staff in Lansing and onsite staff determined that a modified test period would be acceptable. The emergency engine was operated at apx. 80% load for testing.</p> <p>On May 17, 2016, testing was conducted on the White-Superior compressor engine. This unit has not operated other than bump starts and for short term system checks for over 10 years. Based on the age and lack of run time over the years, DTE staff targeted for a 70% load on the engine at the time of testing. Percent ACI torque at the time of testing ranged from 79-81%.</p> <p>Test result for both RICE engines were reported to be below the NOx, CO and non-methane organic compound limits per Federal RICE Requirements. sgl</p> <p>The report copy received by the District did not contain an original signed cert form. The company was notified and a replacement cert form is to be sent yet this week.</p>

Activity Date	Activity Type	Compliance Status	Comments
07/05/2016	ROP Other	Compliance	<p>Startup, Shutdown, Malfunction (SSM) and Continuous Parameter Monitoring System (CPMS) Plans for Grandfathered compressor at DTE Alpena Compressor Station. Referenced unit was made "contract ready" in December 2015, and testing was conducted in May 2016.</p> <p>The facility is unmanned, therefore a copy of the submitted plan, and all recordkeeping is maintained in the Kalkaska compressor station. The facility is operated remotely thru the same station.</p> <p>This document reflects the final document. The previous March 2016 document was a draft to be modified after completion of catalyst installation and testing at the facility.</p> <p>Appendices included in the submittal included the Yokogawa Differential Pressure Transmitter (Appendix F) and the White Superior Engine Operating Manual (Appendix E). Appendices A-D were included as part of the March 14, 2016, submittal and have been printed off and are on file with the final document. sgl</p>
05/16/2016	Stack Test Observation	Compliance	Observation of required testing of Kohl Emergency Generator and EUWHITESUPERIOR.
04/11/2016	MAERS	Compliance	Cert form Rcvd by Gaylord office 3/15/2016, forwarded to SBD office and received on 3/21/2016. Note submittal was corrected to reflect the lean burn status of EUWHITESUPERIOR. sgl
03/15/2016	ROP Annual Cert	Compliance	Facility reports no deviations from ROP for the year. Not CAM subject. Facility still has time before RICE requirements officially kick in. sgl
03/15/2016	ROP Semi 1 Cert	Compliance	Facility reports no reporting or recordkeeping deviations/violations for the year 2015.
03/14/2016	ROP Other	Compliance	Continuous Parameter Monitoring System Plan for EUWhiteSuperior RICE. Document is work in progress, will update as needed.

Name: Meg Sheehan

Date: 8/2/18

Supervisor: C. Pace