

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

**FCE Summary Report**

<b>Facility :</b> Consumers Energy - Ray Compressor Station	<b>SRN :</b> B6636
<b>Location :</b> 69333 OMO RD.	<b>District :</b> Warren
	<b>County :</b> MACOMB
<b>City :</b> ARMADA <b>State:</b> MI <b>Zip Code :</b> 48005	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Noshin Khan
<b>FCE Begin Date :</b> 11/1/2023	<b>FCE Completion Date :</b> 9/25/2024
<b>Comments :</b> facility is in compliance with all evaluated rules and regulations	

**List of Partial Compliance Evaluations :**

Activity Date	Activity Type	Compliance Status	Comments
09/05/2024	ROP Semi 1 Cert	Compliance	no deviations or exceedances during the reporting period
09/05/2024	MACT (Part 63)	Compliance	40 CFR Part 63, Subpart ZZZZ Semiannual CPMS Compliance Report: no CPMS downtime/exceedances for EUENGINE3-1, 3-2, 3-3, 3-4, 3-5  40 CFR Part 63, Subpart HHH Semiannual Periodic Report: EUGLYCDEHYD01 BTEX limit 2.1 Mg/yr; min daily avg TO temp 1553F EUGLYCDEHYD02 BTEX limit 1.8 Mg/yr; min daily avg TO temp 1538F EUDEHY3 BTEX limit 1.9 Mg/yr; min daily avg TO temp 1530F no malfunctions; no excursions; no inoperative CPMS time; no leaks/defects; no periodic performance tests

Activity Date	Activity Type	Compliance Status	Comments
09/05/2024	Stack Test	Compliance	<p>40 CFR Part 63 Subpart ZZZZ. Stack test results:            EUENGINE31 (initial catalyst pressure drop 2"; requirement is +/- 2" from initial)            Load: 99.9%; CO reduction efficiency: 97%; Catalyst inlet temp: 857F; Catalyst pressure drop: 2.1"</p> <p>EUENGINE32 (initial catalyst pressure drop 2"; requirement is +/- 2" from initial)            Load: 99.8%; CO reduction efficiency: 98%; Catalyst inlet temp: 862F; Catalyst pressure drop: 2.3"</p> <p>EUENGINE33 (initial catalyst pressure drop 1"; requirement is +/- 2" from initial)            Load: 98.3%; CO reduction efficiency: 98%; Catalyst inlet temp: 821F; Catalyst pressure drop: 2.0"</p> <p>EUENGINE34 (initial catalyst pressure drop 2"; requirement is +/- 2" from initial)            Load: 99.8%; CO reduction efficiency: 97%; Catalyst inlet temp: 844F; Catalyst pressure drop: 2.7"</p> <p>EUENGINE35 (initial catalyst pressure drop 2"; requirement is +/- 2" from initial)            Load: 99.8%; CO reduction efficiency: 96%; Catalyst inlet temp: 838F; Catalyst pressure drop: 2.1"</p> <p>Results indicate compliance.</p>
08/08/2024	On-site Inspection	Compliance	scheduled on-site inspection
08/08/2024	Stack Test Observation		on-site stack test observation
03/26/2024	ROP Annual Cert	Compliance	Annual Compliance Certification. See details under MACT 03/19/2024
03/26/2024	ROP SEMI 2 CERT	Compliance	Semi-Annual Certification. See details under MACT 03/19/2024

Activity Date	Activity Type	Compliance Status	Comments
03/26/2024	MACT (Part 63)	Compliance	<p>40 CFR Part 63, Subpart ZZZZ Semiannual CPMS Compliance Report. -- no deviations or CPMS downtime for engines 3-1, 3-2, 3-3, or 3-4</p> <p>40 CFR Part 63, Subpart HHH Semiannual Periodic Report. -- no malfunctions, excursions, inoperative CPMS, leaks/defects during second half; EUGLYCDEHYD01 min daily avg TO temp 1553F; 1538F for EUGLYCDEHYD02; 1530F for EUDEHY3</p> <p>40 CFR Part 63, Subpart DDDD Annual Compliance Report. -- EUBOILER3 tune-up 12/05/2023; EUPIPEHEATER31 tune-up 11/20/2023; EUPIPEHEATER32 tune-up 02/16/2024 (conducted within 30 days of startup, was not operating on required date for tune-up)</p> <p>40 CFR Part 63, Subpart DDDD Biennial Compliance Report. -- EUPIPEHTR1 and EUPIPEHTR2 tune-ups performed 03/08/2022; EUPIPEHTR3 and EUPIPEHTR4 tune-ups performed 03/09/2022 (all conducted within 30 days of startup because units were not operating on required date for tune-up)</p>
11/20/2023	Stack Test		<p>Test Report on a 4-stroke lean burn (4SLB) natural gas-fired, reciprocating internal combustion emergency engine, identified as EUEMERGGEN3.</p> <p>NOx: 0.5 g/HP-hr, 36 ppmvd @ 15% O2</p> <p>CO: 2.1 g/HP-hr, 269 ppmvd @ 15% O2</p> <p>VOC: 0.55 g/HP-hr, 44 ppmvd @ 15% O2</p>

Name: Noshin Khan

Date: 10/2/2024

Supervisor: K. Kelly