

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION

**FCE Summary Report**

<b>Facility :</b> Consumers Energy Karn-Weadock Facility	<b>SRN :</b> B2840
<b>Location :</b> 2742 N. Weadock Hwy.	<b>District :</b> Saginaw Bay
	<b>County :</b> BAY
<b>City :</b> ESSEXVILLE <b>State:</b> MI <b>Zip Code :</b> 48732	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Sharon LeBlanc
<b>FCE Begin Date :</b> 8/17/2012	<b>FCE Completion Date :</b> 3/5/2014
<b>Comments :</b>	

**List of Partial Compliance Evaluations :**

Activity Date	Activity Type	Compliance Status	Comments
03/05/2014	Scheduled Inspection	Compliance	Compliance inspection for FCE completion- sgl
01/30/2014	Excess Emissions (CEM)	Compliance	Units 7 & 8 - JC Weadock Co lb/mmBtu Monitor Systems Data Assessment Report. Linearity test results and Quarterly Reports for Opacity, SO2 and CO...unit downtimes etc. all reported less than 1% of respective unit operating times
01/30/2014	Excess Emissions (CEM)	Compliance	Karn Units 1 & 2 - Quarterly Reports for Opacity, SO2 - Karn 1 COm reported 2.85% percent downtime due to non-monitor equipment malfunction (faulty blower 11/6-8/2013)
01/30/2014	Excess Emissions (CEM)	Compliance	4th Quarterly excess emissions reports for Karn 3&4. NOx CEMs reported 3.44% downtime due predominantly to monitoring equipment malfunctions on 12/9/2013 and 12/24/2013.
01/15/2014	Scheduled Inspection	Compliance	Compliance determination for parts cleaners, paint room, fuel storage tanks, emergency generators, turbine and coal handling system.sgl
11/06/2013	Scheduled Inspection	Compliance	Initial facility tour, and inspection of facility ash handling system.sgl

Activity Date	Activity Type	Compliance Status	Comments
10/29/2013	Excess Emissions (CEM)	Compliance	Karn 1&2 Quarterly Reports for Opacity and SO2 monitors - no excess emissions reported for either boiler. Monitor Downtimes reported less than 0.2 percent of operating time. Annual COM audit conducted 8/13/2013 both units passed.
10/29/2013	Excess Emissions (CEM)	Compliance	Karn 3&4 Quarterly Reports for Opacity, SO2 and NOx monitors - no excess emissions reported. No monitor downtimes reported.
10/29/2013	Excess Emissions (CEM)	Compliance	Weadock 7&8 Quarterly Reports for Opacity and SO2 monitors - no excess emissions or downtime reported for SO2. Opacities >20 percent were reported for 3.3 hours for quarter for units (aka weadock). Opacity exceedances (33) due to boiler problems etal. Opacity monitor downtime due to QA/QC activities. No excess CO emissions for either 7 or 8. CO monitor downtime limited to "8" with total of 19 hours 10 of which was equipment malfunction. Annual Opacity Monitor Audit report and CO monitoring data assessment report also included.
10/29/2013	CEM RATA	Compliance	J.C. Weadock Units 7&8 RATA report- Test date 9/11/2013- Testing was conducted for CO, CO2, SO2 and NOx. Document summary reports that test results met 10% accuracy requirement.
10/29/2013	ROP Other	Compliance	10-day notification prior to burning boiler cleaning solutions. Date activity to begin is 11/10/2013.
10/01/2013	CEM RATA	Compliance	D.E. Karn Units 3&4 use shared stack. Concentrations reported met test criteria. sgl
09/25/2013	ROP Semi 1 Cert	Compliance	Combustion turbine - no deviations reported.
09/25/2013	ROP Semi 1 Cert	Compliance	No deviations reported.
09/25/2013	CAM Excursions/Exceedances	Compliance	No CAM excursions/exceedances reported.
09/25/2013	CAM monitor downtime	Compliance	Karn 1&2 opacity montiors - see COMS monitor downtime previsouly reported on 4/30/13 and 7/29/13 (quarterly excess emission reports) for details.

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09/25/2013	ROP Semi 1 Cert	Compliance	Karn 3&4 - For deviations see quarterly excess emission reports previously submitted. Opacity excess emissions were reported for first and second quarter 2013.
09/25/2013	ROP Semi 1 Cert	Compliance	Weadock 7&8 - For deviations see quarterly excess emission reports previously submitted. Opacity excess emissions were reported for first and second quarter 2013. Also, for Weadock 7, the CO linearity test was not conducted as required.
09/25/2013	CAM Excursions/Exceedances	Compliance	Weadock 7&8 - opacity excursions due to boiler problems. See quarterly excess emissions reports previously reported for 4/30/13 for details.
09/25/2013	CAM monitor downtime	Compliance	Weadock 7&8 opacity monitors - see COMS monitor downtime previously reported on 4/30/13 and 7/29/13 (quarterly excess emission reports) for details.
09/25/2013	ROP Semi 1 Cert	Compliance	Coal handling operation - unit train arrival sheet indicated a western coal train did not have dust suppression chemical applied during unloading.
09/25/2013	CAM Excursions/Exceedances	Compliance	Coal handling operation - no CAM exceedances/excursions reported.
09/25/2013	CAM monitor downtime	Compliance	Coal handling operation - no CAM monitor downtime reported.
08/28/2013	Stack Test	Compliance	Weadock 7&8 RATA Notice & Protocol. RATA scheduled to begin the week of September 9, 2013.
07/30/2013	Excess Emissions (CEM)	Compliance	Opacity, SO <sub>2</sub> , NO <sub>x</sub> qtrly - Opacity excess emissions occurred for 54 minutes (0.05% of operating time) due to boiler problem and other known causes. No opacity monitor downtime. NO NO <sub>x</sub> or SO <sub>2</sub> excess emissions or monitor downtime reported.

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07/30/2013	Excess Emissions (CEM)	Compliance	Opacity, SO2, & CO qtrly - Opacity exceedances occurred for 6.3 hours (0.29% of the total operating time) due to startup/shutdown, boiler problems, and other known and unknown causes. Opacity monitor downtime occurred for 0.03% of the total operating time due to QA/QC activities. No SO2 excess emissions reported. SO2 monitor downtime was 0.10% of the total operating time due to QA/QC activities. No CO excess emission reported for units 7 & 8. CO monitor downtime was reported at 0.80% and 2.34% of the total operating time for units 7 & 8, respectively. With regard to unit 8's monitor downtime, a majority of it was due to QA/QC activities.
07/29/2013	Excess Emissions (CEM)	Compliance	Opacity, SO2 qtrly - No opacity exceedances reported. Opacity monitor was down 0.11% and 0.07% of the time due to QA/QC activities for Karn 1 and 2, respectively. No SO2 emission exceedances or monitor downtime reported.
07/26/2013	Stack Test	Compliance	Karn 3 & 4 RATA Plan. Testing scheduled to begin on 8/7/13.
07/03/2013	ROP Annual Cert	Compliance	
07/03/2013	ROP SEMI 2 CERT	Compliance	
07/03/2013	CAM Excursions/Exceedances	Compliance	
07/03/2013	CAM monitor downtime	Compliance	
07/03/2013	ROP Annual Cert	Compliance	
07/03/2013	ROP SEMI 2 CERT	Compliance	
07/03/2013	ROP Annual Cert	Compliance	
07/03/2013	CAM Excursions/Exceedances	Compliance	
07/03/2013	CAM monitor downtime	Compliance	
07/03/2013	ROP Annual Cert	Compliance	
07/03/2013	ROP SEMI 2 CERT	Compliance	
07/03/2013	CAM Excursions/Exceedances	Compliance	
07/03/2013	CAM monitor downtime	Compliance	

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07/03/2013	ROP Annual Cert	Compliance	
07/03/2013	ROP SEMI 2 CERT	Compliance	
07/03/2013	ROP SEMI 2 CERT	Compliance	
07/01/2013	Excess Emissions (CEM)	Compliance	Quarterly Excess Emission Report - Opacity & SO2 - Karn 1 & 2
07/01/2013	Excess Emissions (CEM)	Compliance	Quarterly Excess Emission Report - Opacity, SO2 & NOx - Karn 3 & 4
07/01/2013	Excess Emissions (CEM)	Compliance	Quarterly Excess Emission Report - Opacity, SO2, NOx & CO - Weadock 7 & 8
06/24/2013	CEM RATA	Compliance	RATA Test Report - EUKARN1-S1 & EUKARN2-S1
06/24/2013	MACT (Part 63)	Compliance	Initial Notification - 40 CFR 63, Subpart DDDDD
05/14/2013	MAERS	Compliance	2012 MAERS Report - ROP Report Certification Form
02/04/2013	ROP Qrtly Cert	Compliance	Qtrly Report for Opacity & SO2 - Karn Plant (Units 1 & 2)
02/04/2013	ROP Qrtly Cert	Compliance	Qtrly Report for Opacity, SO2, & NOx - Karn Plant (Units 3 & 4)
02/04/2013	ROP Qrtly Cert	Compliance	Qtrly Excess Emission Report for Opacity, SO2, NOx, & CO - Weadock Plant (Units 7 & 8)
01/25/2013	CEM RATA	Compliance	J.C. Weadock Units 7 & 8 Flow Rata Report
11/02/2012	Excess Emissions (CEM)	Compliance	JC Weadock CO lb/mmBtu Monitoring Systems Data Assessment Report; Qtrly reports for Opacity, SO2, NOx and CO
11/02/2012	Excess Emissions (CEM)	Compliance	Qtrly reports for Opacity, SO2, NOx
11/02/2012	Excess Emissions (CEM)	Compliance	Qtrly reports for Opacity, SO2
11/02/2012	CEM RATA	Compliance	JC Weadock Unit 7 & 8 RATA Report
10/23/2012	CEM RATA	Compliance	DE Karn Units 3 & 4 RATA Report
09/26/2012	ROP Semi 1 Cert	Compliance	No deviations reported.
09/26/2012	ROP Semi 1 Cert	Compliance	Two deviations reported.
09/26/2012	ROP Semi 1 Cert	Compliance	One deviation reported.
09/26/2012	ROP Semi 1 Cert	Compliance	
09/26/2012	ROP Semi 1 Cert	Compliance	

Name: Marion J. [Signature] Date: 3/19/2014 Supervisor: C. [Signature]