

FMI

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Notification of Compliance Status Report
 National Emission Standards for Hazardous Air Pollutants:
 Stationary Reciprocating Internal Combustion Engines
 40 CFR part 63, subpart ZZZZ

Section I: General Information

Permit Number		Facility I.D. Number (Optional)	
1850015			
Responsible Official's Name		Title	
Jeff Williamson		Power Plant Superintendent	
Street Address			
PO Box 367, 424 S. Broadway			
City	State	Zip Code	
St. John	Kansas	67576	
Facility Name (if different from Responsible Official's Name)			
St. John Municipal Power Plant			
Facility Local Contact Name and Title			Phone (Optional)
Jeff Williamson Power Plant Supt.			(620) 549-3208
City	State	Zip Code	
St. John	Kansas	67576	

Basis for this notification: [40 CFR 63.6645](#) Compliance Date: [May 3, 2013](#)

Section II: Certification

Based upon information and belief formed after a reasonable inquiry, I, as a responsible official of the above-mentioned facility, certify the information contained in this report is as accurate and true to the best of my knowledge.

The above-mentioned facility [St. John Municipal Power Plant](#) has complied with the relevant standard.



 Signature of Responsible Official
[Jeff Williamson, Power Plant Superintendent](#)
 Printed Name and Title

5-3-13

 Date

Section III: Methods

This facility installed non-selective catalytic reduction (NSCR) to demonstrate a 70% reduction in CO emissions from their stationary existing CI engine in order to comply with the emission standards in Table 2d of 40 CFR part 63, subpart ZZZZ. A performance test was conducted on [May 28 and 29, 2014](#) in accordance with the requirements in Table 4 of 40 CFR part 63, subpart ZZZZ. The catalyst inlet temperature and catalyst pressure drop were recorded during the initial performance test. A CPMS was installed to measure the catalyst temperature according to the requirements in 40 CFR 63.6625 (b) and (k). The catalyst inlet temperature and catalyst pressure drop that were recorded were within the allowed ranges as specified in Table 1b of 40 CFR part 63, subpart ZZZZ. This facility followed the startup requirements in 63.6625(h). The startup time was limited to 30 minutes and this facility minimized the engine's time spent at idle during startup.

Section IV: Results

Unit No.	Test Date	CO % Reduction	Catalyst Inlet Temp	Catalyst Pressure Differential Baseline	Startup Minutes
2	5/29/2014	99.97%	882°F	1.4" w.c.	8
4	5/28/2014	93.36%	870°F	0.5" w.c.	29
5	5/28/2014	94.01%	673°F	3.2" w.c.	23

Section V: Continuous Compliance

This facility will determine continuous compliance with applicable requirements by continuing to use monitoring methods as identified in Section III and Section IV of this notification. In addition, the facility plans to do the following: (1) continuous monitoring of the catalyst inlet temperature to ensure it remains greater than or equal to 450°F and less than or equal to 1350°F (2) monitor the catalyst pressure drop monthly to ensure that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst measured during the initial performance test; (3) conduct performance test on each engine every 8,760 hours of operation or 3 years, whichever comes first, to measure CO emissions to determine that CO is reduced 70 percent or more; (4) record the necessary information as specified in §63.6655, and (5) submit the necessary notifications and reports, according to the requirements in §63.6645 and §63.6650.

Section VI: Emissions

Unit No.	Source Description	HAP Emitted	hp	HAP Emitted @ 15% O2 in tons per year
2	Caterpillar 3512	CO	1700	0.01
4	Cooper-Bessemer LS-8-GDT	CO	2467	1.02
5	Fairbanks-Morse 38TDD8-1/8	CO	2880	3.04

Section VII: Facility Designation

This facility consists of three (3) stationary engine generators, totalling 7047 hp. Units 1 and 2 are stationary dual-fuel engines and of the CI classification. Using AS-42 3.4 for Large Stationary Diesel and All Stationary Dual-fuel Engines emission factors, this facility is below the threshold to be classified as a major source, therefore this facility is an area source. We do not expect these sources to emit HAP in quantities greater than the major source threshold.

Section VIII: Controls

The following pollution control equipment is used for the listed engine(s) at this facility. Additionally, this facility uses other compliance methods that do not involve pollution control equipment, including a CPMS.

Source ID	Equipment	Control Device	Efficiency	HAP
2	Maxim NSCR Catalyst	NSCR	Reduce CO by 70% or more	CO
4	Maxim NSCR Catalyst	NSCR	Reduce CO by 70% or more	CO
5	Maxim NSCR Catalyst	NSCR	Reduce CO by 70% or more	CO

Source ID	Equipment	Control Device	Efficiency	HAP
2	Racor Filtration System	CCV Filtration System	Filter	Oil Mist
4	Solberg Filtration System	CCV Filtration System	Filter	Oil Mist
5	Solberg Filtration System	CCV Filtration System	Filter	Oil Mist