ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
E02P	Emergency Diesel Engine (Stationary Fire Pump)	None – vents via E02E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Fire protection system emergency fire pump power engine.

Manufacturer:	**Model number:**	**Serial number:**
John Deere	6068HFC28	PE6068L222710
Construction date:	**Installation date:**	**Modification date(s):**
2012	2012	None

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
183 hp

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
NA	NA	100 hr/yr (expected maximum annual operating hours)

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel?	**If yes, is it?**
_X_ Yes ____ No	____ Indirect Fired _X_ Direct Fired
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**
183 hp	NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Diesel Fuel #2 (low sulfur)

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel Fuel	0.05 wt. %	NA	142,200 BTU/gal

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Emissions Data

Criteria Pollutants	Potential Emissions (After Control)	
	PPH	TPY
Carbon Monoxide (CO)	1.04	0.052
Nitrogen Oxides (NO_X)	5.67	0.284
Lead (Pb)	---	---
Particulate Matter ($PM_{2.5}$)	0.06	0.003
Particulate Matter (PM_{10})	0.06	0.003
Total Particulate Matter (TSP)	0.06	0.003
Sulfur Dioxide (SO_2)	0.38	0.019
Volatile Organic Compounds (VOC)	0.45	0.023
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPH	TPY
Trace	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPH	TPY
Trace	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

CO & PM factors from Tier 3 Emission certification standards.
NOx, SO2 and VOC from AP-42.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission limits – R30-07300003-2009 SM01(Part 3 of 4): 7.1.1.1., 7.1.2.1.; 45CSR16; 45CSR34; 40 C.F.R. 60 Subpart IIII §§60.4205(c), Table 4 to Subpart IIII; 40 C.F.R. 63 Subpart ZZZZ §63.6590(c).

2. Operational limits – R30-07300003-2009-SM01 (Part 3 of 4): 7.1.2.2. – 7.1.2.7.; 45CSR16; 45CSR34; 40 C.F.R. 60 Subpart IIII §§60.4207(b), 60.4211(a), 60.4211(c), 60.4211(f).

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. R30-07300003-2009-SM01 (Part 3 of 4): 7.1.2.1., 7.1.2.3.; 45CSR16; 40 C.F.R. 60 Subpart IIII §§60.4205(c), 60.4211(a), Table 4 to Subpart IIII.

2. R30-07300003-2009-SM01 (Part 3 of 4) 7.2.1., 7.4.1.; 45CSR16; 45CSR§30-5.1.c.; 40 C.F.R. 60 Subpart IIII §§4209(a), 60.4214(b).

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.