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NFPA-25 Inspection, Testing and Maintenance of Fire Pumps

Information on this form covers the minimum requirements of NFPA 25-2014 for centrifugal pumps. Separate forms are available to inspect, test and maintain the rest of the fire protection system of which the fire pump is a part. More frequent inspection, testing and maintenance may be necessary depending on the conditions of the occupancy and the water supply.

Owner: GAINESVILLE RENEWABLE ENERGY ISC#: _____ Report#: DEISEL PUMP
 Owner's Address: 11201 NW 13TH ST. GAINESVILLE, FL. Owner's Phone Number: _____
 Property Being Evaluated: _____
 Property Address: _____

Date of Work: 1/30/17 All responses refer to the current work (inspection, testing and maintenance) performed on this date.

This work is (check one): Monthly Quarterly **Annual** Third Year Fifth Year

Part I - Owner's Section

- A. Is the building occupied? Yes No 10. Circulation relief valve flowing water while pump churns? Yes No N/A
- B. Has the occupancy classification and hazard of contents remained the same since the last inspection? Yes No 11. Pressure relief valves operating with proper pressure downstream while pump is operational? Yes No N/A
- C. Are all fire protection systems in service? Yes No 12. Alarm panel clear? Yes No N/A
- D. Has the system remained in service without modification since the last inspection? Yes No 13. System left in service? Yes No N/A
- E. Was the system free of actuation of devices or alarms since the last inspection? Yes No **B. Tests**
- F. Weekly logs of inspections required by NFPA#25 on file? Yes No **1. Weekly Test Items**
- G. All deficiencies reported at last inspection corrected? Yes No **A. Electric Motor-Driven Pumps**
- H. I know the location and understand the operation of all control valves. Yes No 1. Pump started automatically Yes No N/A
- J. I would like to have a copy of NFPA#25 @ an extra charge of \$50.00. Yes No Record starting pressure: _____ psi.

K. Owner or rep. requests PBFS to release information from inspections to the underwriters of my insurance

Note to owner: Periodic tests of transfer switches and emergency generators are to be performed in accordance with NFPA 110 by a qualified electrical contractor.

MIKE BUONSIGNORE 1/30/17
 Owner or representative (print name) Signature Date

Part II - Inspector's Section

- A. Inspections - All to be performed weekly.**
- 1. Pump house/room proper temperature (at least 70 degrees F for diesels without engine heaters or 40 degrees F for others?) Yes No N/A
 - 2. Ventilating louvers free to operate? Yes No N/A
 - 3. Suction, discharge and bypass valves open? Yes No N/A
 - 4. Piping appears to be free from leaks? Yes No N/A
 - 5. Suction and system pressure gauges normal? Yes No N/A
 - 6. Suction reservoir, if provided, full? Yes No N/A
 - 7. Electric Motor Driven Pumps
 - a. Controller indicating power on, transfer switch indicating normal situation and isolation switch closed? Yes No N/A
 - b. Reverse phase alarm indicator off or normal phase rotation indicator on? Yes No N/A
 - c. Oil level in vertical motor sight normal? Yes No N/A
 - 8. Diesel Engine driven Pumps
 - a. Fuel tank at least two thirds full? Yes No N/A
 - b. Controller selector switch in auto position? Yes No N/A
 - c. Battery voltage and charger readings normal? Yes No N/A
 - d. Battery indicators on or failure indicators off? Yes No N/A
 - e. All alarm indicators off? Yes No N/A
 - f. Record engine running time meter reading: _____
 Is this appropriately higher than previous reading? Yes No N/A
 - g. Oil level in right angel gear drive normal? Yes No N/A
 - h. Crankcase oil level normal? Yes No N/A
 - i. Cooling water level normal? Yes No N/A
 - j. Electrolyte level in batteries normal? Yes No N/A
 - k. Battery terminals free from corrosion? Yes No N/A
 - l. Water-jacket heater operating? Yes No N/A
 - 9. Steam pressure gauge for steam driven pump reading normal? Yes No N/A
 - 8. For automatic stop controllers, record time pump runs after starting: _____
 - 9. All times and pressures in Part A acceptable? Yes No N/A
 - B. Diesel Engine-Driven Pumps**
 - 1. Pump started automatically? Yes No N/A
 - Record starting pressure: 110
 - 2. Pump run for at least 30 minutes? Yes No N/A
 - Record suction 165 and discharge _____ pressure while running.
 - 3. Pump packing gland showing slight discharge? Yes No N/A
 - Adjust if necessary.*
 - 4. Free from unusual noises or vibrations? Yes No
 - 5. Packing boxes, bearings and pump casing free from overheating? Yes No N/A
 - 6. Record time for engine to crank: 4 SEC
 - 7. Record time for engine to reach running speed: 5SEC
 - 8. Engine oil pressure gauge, speed indicator, water and oil temperature indicators all reading normal? Yes No N/A
 - 9. Cooling water flowing from heat exchanger? Yes No N/A
 - 10. All times and pressures in Part B acceptable? Yes No N/A
 - C. Steam Turbine-Driven Pumps**
 - 1. Record pump starting pressure _____, suction _____ and discharge _____ pressures while running. Yes No N/A
 - 2. Pump packing gland showing slight discharge? Yes No N/A
 - Adjust if necessary.*
 - 3. Free from unusual noises or vibrations? Yes No N/A
 - 4. Packing boxes, bearings and pump casing free from overheating? Yes No N/A
 - 5. Record steam pressure gauge reading: _____
 - 6. Record time for turbine to reach running speed: _____
 - 7. All times and pressures in Part C acceptable? Yes No N/A



NFPA-25 Inspection, Testing and Maintenance of Fire Pumps

Report#: DEISEL PUMP

Pump Test Results

Table with 4 columns: Suction Pressure, No Flow, Rated Flow, Peak Flow. Rows include Discharge Pressure (165, 150, 145), Flow (N/A, 2000, 3000), Electric Voltage and Current (N/A, N/A, N/A), and Pump Speed (1608, 1770, 1781).

2. Annual Tests

Annual pump test was run using the following method: (check one)

Method A. Discharge of flow through hose streams.

Flow readings taken at each hose stream.

Method B. Discharge through by-pass flow meter to drain or suction reservoir. Flow readings taken by flow meter.

Method C. Discharge through by-pass flow meter directly returned to pump suction. Flow readings taken by flow meter.

Note: At least once every three years method A or B must be used.

A. Are the values in the above table acceptable?

[X] Yes [] No [] N/A

B. No-flow (churn) test run for 30 min?

[X] Yes [] No [] N/A

C. Circulation relief valve and pressure relief valve operated properly during all flow tests?

[X] Yes [] No [] N/A

D. No alarm indicators or other visible abnormalities observed during no flow test?

[X] Yes [] No [] N/A

E. Suction screens cleaned after flow?

[] Yes [] No [X] N/A [] NIC

F. Low Suction Throttling Device Test

1. Low suction pressure simulated?

[] Yes [] No [X] N/A [] NIC

Free from abnormalities in throttling action?

[] Yes [] No [X] N/A [] NIC

2. Free from abnormalities in return to full flow?

[X] Yes [] No [] N/A [] NIC

G. Automatic Transfer Switch Test

1. Power failure simulated during peak flow?

[X] Yes [] No [] N/A [] NIC

Connection made to alternate power source?

[X] Yes [] No [] N/A [] NIC

2. After termination of simulated power failure, did motor reconnect to the normal power source?

[X] Yes [] No [] N/A [] NIC

H. All alarm conditions simulated?

[X] Yes [] No [] N/A

All alarms operated?

[X] Yes [] No [] N/A

C. Maintenance

A maintenance schedule must be established in accordance with the manufacturer's instructions. In the absence of such a schedule, the following must be used:

1. Weekly Maintenance Items for Diesel Engine Systems:

A. Fuel tank level, tank float, switch and solenoid valve operation acceptable?

[X] Yes [] No [] N/A

B. Diesel fuel system free of water?

[X] Yes [] No [] N/A

C. Flexible hoses and connectors in fuel and coolant systems acceptable?

[X] Yes [] No [] N/A

D. Oil level and lube oil heater acceptable?

[X] Yes [] No [] N/A

E. Coolant level acceptable?

[X] Yes [] No [] N/A

F. Water pump for coolant system operating?

[X] Yes [] No [] N/A

G. Jacket water heater for coolant system acceptable?

[] Yes [] No [X] N/A

H. Exhaust system free of leakage?

[X] Yes [] No [] N/A

I. Drain condensate trap on exhaust system operational?

[] Yes [] No [X] N/A

J. Electrolyte level in batteries acceptable?

[X] Yes [] No [] N/A

K. Connections to electric system acceptable?

[X] Yes [] No [] N/A

2. Monthly Maintenance Items:

A. Isolation switch and circuit breaker exercised?

[X] Yes [] No [] N/A

B. Battery case clean, dry and free of corrosion and battery's specific gravity or state of charge passed test?

[X] Yes [] No [] N/A

C. Charger and charge rate passed visual inspection and battery charge being equalized?

[X] Yes [] No [] N/A

D. Circuit breakers appear clean?

[X] Yes [] No [] N/A

3. Quarterly Maintenance Item:

A. Cleaned strainer, filter or dirt leg in diesel fuel system?

[] Yes [] No [] N/A [X] NIC

B. Cleaned or replaced crank case breather in lubrication system?

[] Yes [] No [] N/A [X] NIC

C. Cleaned water strainer in coolant system?

[] Yes [] No [] N/A [X] NIC

D. Insulation acceptable and fire hazards eliminated from exhaust system?

[] Yes [] No [X] N/A

E. Battery terminals clean and tight?

[X] Yes [] No [] N/A

F. Electrical system free of wire chafing?

[X] Yes [] No [] N/A

4. Semiannual Maintenance Items:

A. Manual starting means on electrical systems operated

and boxes, panels and cabinets cleaned?

[X] Yes [] No [] N/A

B. Antifreeze tested in coolant system?

[] Yes [] No [X] N/A

C. Flexible exhaust section acceptable?

[X] Yes [] No [] N/A

D. Alarms operated on electrical portions of diesel engine systems?

[X] Yes [] No [] N/A

5. Annual Maintenance Items:

A. Added grease to pump bearings?

[X] Yes [] No [] N/A

B. Shaft end play acceptable?

[] Yes [] No [] N/A [X] NIC

C. Transmission coupling, right angle gear drive and mechanical moving parts lubricated?

[] Yes [] No [X] N/A

D. Circuit breakers passed trip test?

[] Yes [] No [] N/A [X] NIC

E. Emergency manual starting means operated without power?

[X] Yes [] No [] N/A

F. Electrical connections secure?

[X] Yes [] No [] N/A

G. Pressure switch settings calibrated?

[] Yes [] No [X] N/A

H. Motor bearings greased?

[] Yes [] No [X] N/A

I. Fuel tank free of water and foreign material, tank vents and overflow pipes free of obstructions, fuel piping acceptable, and oil and filters changed in diesel systems?

[] Yes [] No [] N/A [X] NIC

J. Antifreeze changed in coolant system?

[] Yes [] No [] N/A [X] NIC

K. Heater exchanger cleaned out?

[] Yes [] No [] N/A [X] NIC

L. Duct work and louvers (combustion air) acceptable?

[X] Yes [] No [] N/A

M. Exhaust system free of back pressure?

[X] Yes [] No [] N/A

N. Exhaust system hangers and supports acceptable?

[X] Yes [] No [] N/A

O. Control and power wiring tight?

[X] Yes [] No [] N/A

Part III - Comments (any "No" answers, test failures or other problems found with the sprinkler system must be explained here. Also, note here any products noticed on the system that have been the subject of a recall or a replacement program.) All items that need repaired or replaced are the owners responsibility and are not included in the price of inspection.

VALVE SEAL #'S

Table with 2 columns: Valve Name, Seal #'s. Rows include INLET (875041), OUTLET (875043, 875042), TEST HEADER (875067, 875068), BYPASS INLET (875069, 875070), BYPASS OUTLET (875090, 875089).

Part IV - Inspector's Information

I state that the information on this form is correct at the time and place of my inspection and that all equipment tested at this time was left in operational condition upon completion of this inspection except as noted in Part III above.

Date: 1/30/17

Signature of Inspector: [Signature]

Print Name: JASON SCHULL

License or Certification Number (if applicable): 10876

Color of tag placed on system:

- [] Red
[X] Green
[] Yellow