

**FORM FOR INSPECTION, TESTING AND MAINTENANCE OF FIRE PUMPS
DIESEL**

Information on this form covers the minimum requirements of NFPA 25-1998 for centrifugal fire pumps. This form does not relieve the owner of the responsibility of complying with the other requirements of NFPA 25-1998 for the Inspection, testing and maintenance of Fire Pumps.

Owner: _____ Owner's Phone Number: _____

Owner's address: _____

Property being evaluated: _____

Property address: _____

Date of work: _____ All responses refer to the current inspection performed on this date.

This inspection is: (check one) Weekly Monthly Quarterly Semiannual Annual

Note: 1. All questions are to be answered yes, no, or not applicable. All "No" answers are to be in the comment portion of this form.
2. Inspections are to be performed with water supplies (including fire pumps) in service, unless the impairment procedures of Chapter 11 of NFPA 25 are followed.

Part I - Owner's Section

A. Is the fire pump in service? Yes No N/A

B. Has the fire pump remained in service since the last inspection?
 Yes No N/A

C. Was the system (of which the fire pump is a part) free from actuation of devices or alarms since the last inspection?
 Yes No N/A

Note to owner: A preventive maintenance program for the diesel engine driver shall be established in accordance with the manufactures requirements and recommendations.

Owner or representative (print name)

Signature and date

Part II - Inspector's Section

A. Inspections - All to be performed weekly.

1. Pump house/room at least 40 degrees Fahrenheit? Yes No N/A

2. Pump house/room for diesels without engine heaters at least 70 degrees Fahrenheit? Yes No N/A

3. Ventilating louvers free to operate? Yes No N/A

4. Suction, discharge and bypass valves open? Yes No N/A

5. Piping free from leaks? Yes No N/A

6. Suction and system pressure gauges normal? Yes No N/A
Record suction _____ and discharge _____ pressure while not running

7. Suction reservoir, if provided, full? Yes No N/A

8. Controller indicating power "ON"? Yes No N/A

9. Fuel tank at least two thirds full? Yes No N/A

10. Controller selector switch in Auto position? Yes No N/A

- 11. Battery voltage and readings normal? Yes No N/A
- 12. Battery charging current readings normal? Yes No N/A
- 13. Battery indicators "ON" or failure indicators "OFF"? Yes No N/A
- 14. All alarm indicators "OFF" Yes No N/A
- 15. Record engine running time meter reading. Yes No N/A Is this appropriately higher than previous reading?
- 16. Crankcase oil level normal? Yes No N/A
- 17. Cooling water level normal? Yes No N/A
- 18. Electrolyte level in batteries normal? Yes No N/A
- 19. Battery terminals free from corrosion? Yes No N/A
- 20. Water-jacket heater operating? Yes No N/A
- 21. Oil level in right angle gear drive normal? Yes No N/A

B. Tests

1. Weekly test items by qualified operating personnel

Diesel Engine - Driven Pumps

- 1. Pump started automatically? Yes No N/A
Pump starting pressure. _____ psi.
- 2. Pump run for at least 30 minutes? Yes No N/A
Record suction _____ and discharge _____ pressure while running.
- 3. Pump packing gland showing slight discharge? Yes No N/A
Have adjusted if necessary by spkr. contractor?
- 4. Free from unusual noises or vibrations? Yes No N/A
- 5. Packing boxes, bearings and pump casing free from overheating? Yes No N/A
- 6. Record time for engine to crank. _____
- 7. Record time for engine to reach running speed. _____
- 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. Pressure relief valves operating with proper pressure downstream while pump is operational? Yes No N/A
- 11. All times and pressures in Part B acceptable? Yes No N/A

2. Quarterly test items by Licensed Sprinkler Contractors

- A. All alarm supervisory conditions simulated? Yes No N/A
- All alarm supervisory conditions operated? Yes No N/A

3. Semiannual tests items by Licensed Sprinkler Contractors

A. All fire pump assembly control valve supervisory tamper devices tested? Yes No N/A

4. Annual tests by Licensed Sprinkler Contractors

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.

PUMP TEST RESULTS : Attach copy of fire pump flow test results to include pump speed r.p.m..

Are the values in the Fire Pump test results acceptable? Yes No N/A

No flow (churn) test run for 30 minutes? Yes No N/A

Circulation relief valve and/or pressure relief valve operated properly during all flow tests? Yes No N/A

No alarm indicators or other visible abnormalities observed during no-flow test? Yes No N/A

D. Low suction throttling device test

1. Low suction pressure simulated? Yes No N/A

Free from abnormalities in throttling action? Yes No N/A

2. Free from abnormalities in return to full flow? Yes No N/A

C. Maintenance items by qualified personnel

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

1. Weekly maintenance items

A. Fuel tank level, tank float switch, and solenoid valve operation Acceptable? Yes No N/A

B. Diesel fuel system free of water? Yes No N/A

- C. Flexible hose and connectors in fuel and coolant systems acceptable? Drive belts acceptable? Yes No N/A
- D. Oil level and lube oil heater acceptable? Yes No N/A
- E. Coolant level acceptable? Yes No N/A
- F. Water pump for coolant system operating? Yes No N/A
- G. Jacket water heater for coolant system acceptable? Yes No N/A
- H. Exhaust system free of leakage? Yes No N/A
- I. Drain condensate trap on exhaust system operational? Yes No N/A
- J. Electrolyte level in batteries acceptable? Yes No N/A
- K. Connections to electrical system acceptable? Yes No N/A

2. Monthly maintenance items

- A. Battery case clean, dry and free of corrosion? Yes No N/A
- B. Batteries specific gravity or state of charge passed test? Yes No N/A
- C. Charger and charge rate passed visual inspection? Yes No N/A
- D. Battery charge being equalized? Yes No N/A

3. Quarterly maintenance items

- A. Cleaned strainer, filter or dirt leg in diesel fuel system? Yes No N/A
- B. Cleaned or replaced crank case breather in lubrication system? Yes No N/A
- C. Cleaned water strainer in coolant system? Yes No N/A
- D. Insulation acceptable and fire hazards eliminated from exhaust system? Yes No N/A
- E. Battery terminals clean and tight? Yes No N/A
- F. Electrical system free of wire chafing? Yes No N/A
- G. Fuel tank free of water and foreign material? Yes No N/A

4. Semiannual maintenance items

- A. Manual starting means operated? Yes No N/A
- B. Antifreeze tested in coolant system? Yes No N/A
- C. Flexible exhaust section acceptable? Yes No N/A
- D. Boxes, panels and cabinets on electrical systems cleaned? Yes No N/A

5. Annual maintenance items

- A. Check pump bearing lubrication? Yes No N/A
- B. Shaft end play acceptable? Yes No N/A

- C. Pump coupling alignment acceptable? Yes No N/A
- D. Transmission coupling and mechanical moving parts lubricated? Yes No N/A
- E. Electrical connections secure? Yes No N/A
- F. Pressure switch settings calibrated? Yes No N/A
- G. Pump and Motor bearings greased? Yes No N/A
- H. Fuel tank free of water, sediment and foreign material? Yes No N/A
- I. Tank vents and overflow pipes free of obstructions? Yes No N/A
- J. Fuel piping acceptable? Yes No N/A
- K. Oil, oil filters and fuel filters changed in diesel systems? Yes No N/A
- L. Antifreeze changed in coolant system? Yes No N/A
- M. Heater exchanger cleaned out? Yes No N/A
- N. Duct work & louvers (combustion air) acceptable? Yes No N/A
- O. Exhaust system free of back pressure? Yes No N/A
- P. Exhaust system hangers and supports acceptable? Yes No N/A
- Q. Control and power wirings tight? Yes No N/A
- R. Stored diesel fuel sample tested annually for compliance with ASTM D-975, standard for diesel fuel? Yes No N/A
- S. Stored diesel fuel treated for stability and control of microbial growth? Yes No N/A
- T. Jockey Pump: Cut-in psi., Cut-out psi.

Part III - Comments (Any "No" answers, test failures or other problems found with the fire pump must be explained here.)

Form Date 10/30/03

Part IV - Inspector's Information

Inspector: _____

Company: _____

Company's address: _____

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

Signature of Inspector: _____ Date: _____

Form Date 10/30/03