

FIRE PUMP CHECKLIST – NPFA 20 SYSTEMS

Date Received: _____	Plan Checker: _____
Project: _____	Date Checked: _____
Approved: _____	Approved With Revisions: _____ Revision Required: _____
Project Location: _____	Business: _____
Contractor: _____	Contractor Phone Number: _____
Hazard Classification: _____	Density/Area of Protection: _____

Not Req.	Required	Wrong	O.K.	
I. <u>FIRE PUMP INFORMATION [horizontal or vertical]</u>				

☐	☐	☐	☐	Manufacturer given.
☐	☐	☐	☐	Model number given.
☐	☐	☐	☐	Manufacturer specification sheet(s) provided.
☐	☐	☐	☐	Proof that <u>all</u> equipment components are listed for how it is used.
☐	☐	☐	☐	GPM rating provided on the plans.
☐	☐	☐	☐	Head rating provided on the plans.
☐	☐	☐	☐	RPM's provided on the plans.
☐	☐	☐	☐	Piping size and type is detailed.
☐	☐	☐	☐	OS & Y valve in suction pipe is correctly detailed in the plans.
☐	☐	☐	☐	Size of suction pipe is detailed.
☐	☐	☐	☐	Check valve in pump discharge assembly.
☐	☐	☐	☐	Eccentric taper reducer for suction is detailed (taper at bottom).
☐	☐	☐	☐	Horizontal pump has an automatic air release of not less than ½".
☐	☐	☐	☐	Vortex plate is provided when stored water is used.
☐	☐	☐	☐	Indicating valve on the system side of the check valve.
☐	☐	☐	☐	Pressure gauge (2X working psi of pump) near discharge casting.
☐	☐	☐	☐	Compound pressure and vacuum gauge is connected to the suction pipe.
☐	☐	☐	☐	Circulation relief valve on pump (¾" if less and 1" if more than 2500 gpm).
☐	☐	☐	☐	Pressure relief valve located between pump and pump discharge.
☐	☐	☐	☐	Test harder pipe size and discharge pipe size is detailed.

Not Req.	Required	Wrong	O.K.	I. <u>FIRE PUMP INFORMATION [horizontal or vertical] (continued)</u>
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☐	☐	☐	☐	Emergency lighting provided in pump room.
☐	☐	☐	☐	Automatic sprinkler protection provided in the pump room.
☐	☐	☐	☐	Pump room floor drain provided.
☐	☐	☐	☐	Pump room wiring in rigid or liquid tight flexible metal conduit.
☐	☐	☐	☐	Double backflow preventer valve is detailed.

Not Req.	Required	Wrong	O.K.	II. <u>ADDITIONAL INFORMATION FOR VERTICAL PUMPS</u>
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☐	☐	☐	☐	Submergence level of pump impellers.
☐	☐	☐	☐	Well screen and suction strainer details.
☐	☐	☐	☐	Dimensions of well.
☐	☐	☐	☐	Air relief valves, water level detectors, pressure gauges, etc.

Not Req.	Required	Wrong	O.K.	III. <u>DRIVER INFORMATION</u>
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☐	☐	☐	☐	Manufacturer and specification information provided.
☐	☐	☐	☐	Model number provided.
☐	☐	☐	☐	Rated horsepower provided.
☐	☐	☐	☐	RPM's provided.
☐	☐	☐	☐	Electric or diesel information provided.
☐	☐	☐	☐	Hours of fuel supply given.

Not Req.	Required	Wrong	O.K.	IV. <u>ELECTRIC DRIVERS [if applicable]</u>
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☐	☐	☐	☐	Electrical circuit schematic provided.
☐	☐	☐	☐	Schematic for secondary power circuit and transfer equipment.
☐	☐	☐	☐	Feeder line is connected ahead of all plant disconnection means.
☐	☐	☐	☐	Controller near motors (more than 12" above floor and 3 ½' clearance to the rear).
☐	☐	☐	☐	Controller listed for electric motor drivers.
☐	☐	☐	☐	Alarm signal provided to an attended location.
☐	☐	☐	☐	Transfer switch specification and listing provided.
☐	☐	☐	☐	One Transfer switch provided for each individual pump.

Not Req.	Required	Wrong	O.K.	V. <u>DIESEL DRIVERS [if applicable]</u>
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☐	☐	☐	☐	Listed for fire pump use.
☐	☐	☐	☐	Closed circuit and liquid cooling details provided in the plans.
☐	☐	☐	☐	Equipped with over speed shutdown device.
☐	☐	☐	☐	Instrument panel with tachometer, oil pressure, and temperature gauges.
☐	☐	☐	☐	Two batteries provided for each engine – rack supported.
☐	☐	☐	☐	Batteries have two means for recharging shown.
☐	☐	☐	☐	Pump room & engine has adequate ventilation provided.
☐	☐	☐	☐	Fuel tank is at least 1 gallon per horsepower plus a 5 % cushion.
☐	☐	☐	☐	The controller is listed for diesel pump use.
☐	☐	☐	☐	Controller near motors (more than 12” above floor and 3 ½’ clearance to the rear).
☐	☐	☐	☐	Alarm signal provided to an attended location.

Not Req.	Required	Wrong	O.K.	VI. <u>JOCKEY PUMP INFORMATION</u>
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☐	☐	☐	☐	Jockey pump location and piping is detailed.
☐	☐	☐	☐	Jockey pump specification sheet(s) provided with the plans.
☐	☐	☐	☐	Jockey pump check valve is detailed on the discharge pipe.

Not Req.	Required	Wrong	O.K.	VII. <u>WATER SUPPLY INFORMATION</u>
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☐	☐	☐	☐	Minimum supply provided.
☐	☐	☐	☐	Connection to water supply.
☐	☐	☐	☐	FDC location is acceptable (within 50’ of a public fire hydrant).

Hydrant Test Information Provide On Plans:

☐	☐	☐	☐	Location and elevation of the static and residual pressure.
☐	☐	☐	☐	Flow location from property to be protected.
☐	☐	☐	☐	Static pressure on plans.
☐	☐	☐	☐	GPM on plans.
☐	☐	☐	☐	Date of the test indicated on the plans.
☐	☐	☐	☐	Time of the test indicated on the plans.
☐	☐	☐	☐	Who provided supply information as indicated on plans.
☐	☐	☐	☐	New on-site pipe diameter(s) and piping material.
☐	☐	☐	☐	System use limited to 90% of available water supply.

ADDITIONAL COMMENTS AND/OR REQUIREMENTS
