





AAA Fire Safety & Alarm, Inc.
 334 North Marshall Way Suite G
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Electric Fire Pump Report of Test/Inspection

Company:	CTU	Date:	November 1, 2011
Address:	326 South State Street	Technician:	Joshua Clark
City, State, Zip:	Salt Lake City, Utah 84104	System Name:	
Contact Name:	Jack Bauer	Special Instructions:	**THIS IS AN EXAMPLE ONLY**
E-Mail:	Jack@CTU.gov		
Phone:	801-867-5309		
Fax:			

Technician Signature: 
 Customer Signature: 

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.
 Except as noted, the building is occupied with the same occupancy classification and hazard of contents as last inspection. Also, the system has remained in service without modification and been free of actuation of devices or alarms.

- Monthly
 Quarterly
 Semi-Annual
 Annual
 5 Year
 Other

Electric Fire Pump Inspection	Electric Fire Pump Maintenance (Continued)
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<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pump house/room maintained at least 40°F? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Piping free from leaks? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Suction, discharge, and bypass valves open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Suction and system pressure gauges normal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Suction reservoir, if provided, is full? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Controller indicating power "ON"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Transfer switch indicating normal situation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Isolation switch closed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Reverse phase alarm indicator "OFF" or normal phase rotation indicator "ON"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Circulation relief valve flowing water while pump churns? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pressure relief valves operating with proper pressure downstream while pump is operational?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pump coupling alignment acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Transmission coupling, right angle gear drive, and mechanical moving parts lubricated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Circuit breakers passed trip test? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Motor bearings greased? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Control and power wirings tight? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Isolation switch and circuit breaker exercised? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Circuit breakers appear clean? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Electrical system free of wire chafing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Manual starting means on electrical systems operated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Boxes, panels, and cabinets on electrical systems clean?
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Electric Fire Pump Test	Electric Fire Pump Flow Test
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<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pump started automatically? Time to motor full speed: <u>2 sec.</u> Time to controller first step: <u>1 sec.</u> For automatic stop controller; time pump runs after starting: <u>NA - No Auto Stop</u> Starting pressure (psi): <u>125</u> Suction pressure while running (psi): <u>50</u> Discharge pressure while running (psi): <u>175</u> Minutes pump run: <u>30</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pump packing glad showing slight discharge? (adjust if needed) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Free from unusual noises or vibrations? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Packing boxes, bearings, and pump casing free from overheating? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A All times and pressures acceptable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pump test run by discharge of flow through hose streams. Flow readings were taken at each hose stream by pitot tube. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Pump test run by discharge through bypass flow meter to drain or suction reservoir. Flow readings taken by flow meter. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Pump test run by discharge through bypass flow meter directly returned to pump suction. Flow readings taken by flow meter. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Pressure readings of flow test are acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A No-flow (churn) test run for 30 minutes? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Circulation relief valve and pressure relief valve operated during all flow tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A No alarm indicators or other visible abnormalities observed during no-flow (churn) test? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Low suction throttling device test; low suction pressure simulated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Low suction throttling device test; free from abnormalities in throttling action? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Low suction throttling device test; free from abnormalities in return to full flow. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Automatic transfer switch test: Power failure simulated during peak flow? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Automatic transfer switch test: Connection made to alternate power source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Automatic transfer switch test: After termination of simulated power failure, did motor reconnect to normal power source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A All alarm conditions simulated, and all alarms operated?
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Electric Fire Pump Maintenance

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Changed pump bearing lubrication? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Shaft end play acceptable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A All alarm conditions simulated, and all alarms operated?
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Electric Fire Pump Equipment & Component Summary

Fire Pump Manufacturer: <u>Aurora</u>	Fire Pump Model: <u>IM</u>	Motor Manufacturer: _____	Motor Model: _____
Fire Pump Serial Number: <u>8863898</u>	Fire Pump Type: <u>Centrifugal</u>	Motor Serial Number: _____	Motor Description: _____
Fire Pump Rated Pressure (psi): <u>105</u>	Fire Pump Rated GPM: <u>1250</u>	Motor Rated Horsepower: <u>1170</u>	Motor Rated Voltage: <u>460</u>
		Motor Rated Cycles: <u>60</u>	Fire Pump Rated RPM: <u>1780</u>
Controller Manufacturer: <u>Metron</u>	Controller Model: <u>3A-25-46B</u>	Jockey Pump Manufacturer: <u>Aurora</u>	Jockey Pump Model: <u>6VD145TTDR500 AB</u>
Controller Serial Number: <u>3423551-ty</u>		Jockey Pump Serial Number: <u>99-00838</u>	
Jockey Controller Manufacturer: _____	Jockey Controller Model: _____	Transfer Switch Manufacturer: _____	Transfer Switch Model: _____
Jockey Controller Serial Number: _____		Transfer Switch Serial Number: _____	

Deficiencies, Notes, Comments, Reference Pictures, and Special Instructions

EXAMPLE



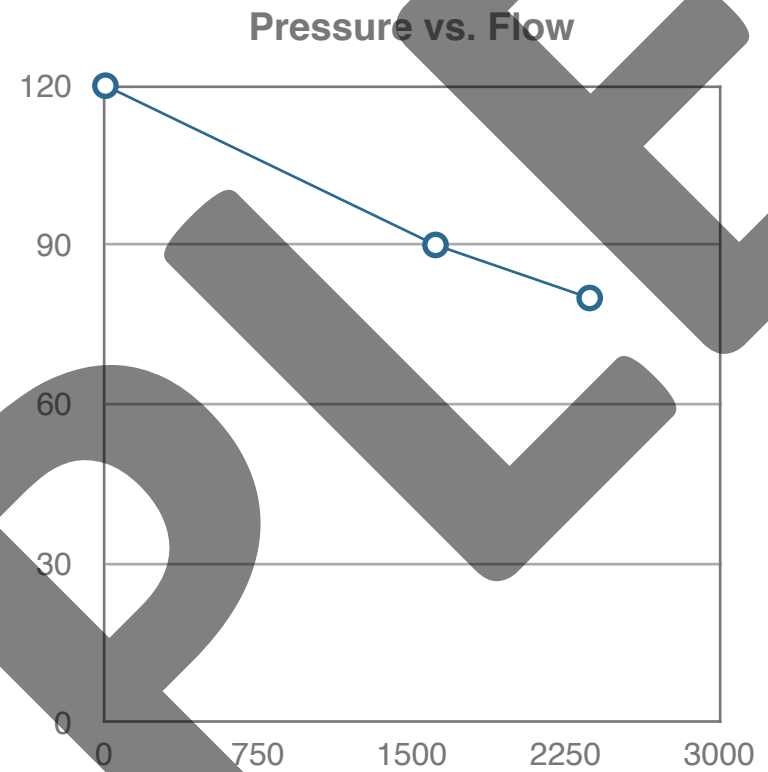
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Customer Name: CTU
 Address: 326 South State Street
 City, State, Zip: Salt Lake City, Utah 84104
 Contact Name: Jack Bauer
 Contact Number: 801-867-5309

Date: Nov 1, 2011
 Technician: Joshua Clark
 Notes:

Stream Detail

	Pitot	Orifice	C Factor	Flow Points
Stream #1	0	2.5	0.9	0
Stream #2	23	2.5	0.9	2
Stream #3	22	2.5	0.9	3



Fire Pump Performance

% Rated	GPM	Suction	Discharge	Net
0%	0	50	170	120
129%	1609	30	120	90
189%	2361	10	90	80

Motor Speed

	(rpm)
0%	1787
129%	1787
189%	1787

Electric Motor Readings

	Volts	Amps
L1	27.5	14.2
L2	25.3	13.5
L3	12.6	13.6

Technician: Do not edit grey cells; these are calculated for you based on data entered.