

Fire Pump Inspection & Test

Fire Pump Information

ID # / Area / Location	Manufacturer	Model	Serial Number		
Lower parking area	Patterson	6x5x17 SCC			
Type	GPM	Max PSI (Churn)	Rated PSI (100%)	150% Rated PSI	Pump Speed
Horizontal Split-Case	1000	90	75	51	1775

Fire Pump Driver Information

Type	Manufacturer	Model	Serial Number		
Electric	US motors	S770A			
Rated Speed	Rated Volts	Rated Amps	Horse Power	Cycles	Phase
1780	480	84	60	60	3
					Service Factor
					1.15

Fire Pump Controller Information

Manufacturer	Model	Serial Number		
Firetrol	FTA1000-AD60H			
Controller Type	Volts	Amps	Cycles	Phase
Reduced Voltage/Current	480	42,000	60	3

Transfer Switch Information, Inspection and Test

Manufacturer	Model	Serial Number		
N/A	N/A	N/A		

During each inspection: Transfer Switch free of any damage of abnormal conditions, and controls in normal position?

Annually: Transfer, or simulated transfer of power, and return to normal power during full flow conditions acceptable?

Jockey Pump System Information

Motor	Manufacturer	Baldor	Model	84Z0009	Serial #	
	HP	2	Volts	460	Amps	2.8
Pump	Manufacturer	Grunfos	Model	CR-2	Serial #	N/A
Controller	Manufacturer	Firetrol	Model	FTA500T-BF02H	Serial #	

Fire Pump Inspection & Operational Test

Visual Inspection and Operational Test satisfactory?	<input type="text" value="Pass"/>	Annual Flow Test within acceptable percentage of ratings?	<input type="text" value="Pass"/>
BEFORE OPERATION - SUCTION Gauge pressure:	<input type="text" value="45"/>	BEFORE OPERATION - SYSTEM LINE Gauge pressure:	<input type="text" value="45"/>
Jockey Pump Start Pressure from Sensing Line Gauge:	<input type="text" value="120"/>	Jockey Pump Stop Pressure from Sensing Line Gauge:	<input type="text" value="130"/>
Fire Pump Start Pressure from Sensing Line Gauge:	<input type="text" value="110"/>	Jockey Start/Stop and Fire Pump Start settings satisfactory?	<input type="text" value="Pass"/>
DURING CHURN - Fire Pump SUCTION Gauge pressure:	<input type="text" value="38"/>	DURING CHURN - Fire Pump DISCHARGE Gauge pressure:	<input type="text" value="132"/>
Is there a Low Suction Control Panel or Device?	<input type="text" value="No"/>	Did the Low Suction Panel or Device Function Properly?	<input type="text" value="N/A"/>
Diesel Engine Fuel Level at, or above, 2/3 Full?	<input type="text" value="N/A"/>	Record Diesel Engine Run Time Hours, if applicable:	<input type="text" value="N/A"/>





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FIRE · SECURITY

Fire Pump Graphing Addendum			
Location Name		Date	2/8/19
Street Address			
City	State	Zipcode	

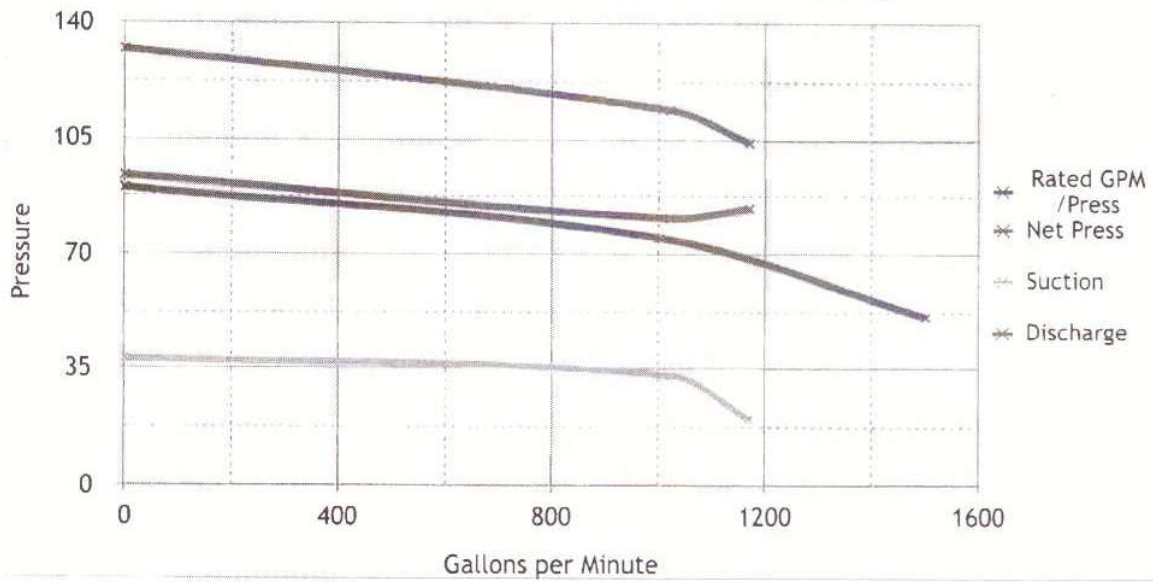
Annual Fire Pump Capacity Test Data [EP 11]												
<i>Pump Identification</i>			<i>Manufacturer's Pump Ratings</i>									
ID #	Area	Location	100% GPM	150% GPM	Max PSI	100% PSI	150% PSI	Speed	Amps	Volts		
		Lower parking deck pump room	1000	1500	90	75	51	1775	480	84		
<i>Test At Churn Condition (No Flow)</i>												
							Suction	Discharge	Net PSI	Max PSI		
							38	132	94	90		
<i>Test At 100% Capacity of Fire Pump Performance</i>												
Nozzle Type (allows for multiple types, sizes and/or varying pressures)	Coeff.	Outlet size	# Outlets	Pitot Press	GPM	Suction	Discharge	Net PSI	Rated PSI			
Flow Buster 2-1/2"	0.79	2 1/2	2	12.0	1021	33	114	81	75			
					Total GPM achieved:	1021						
<i>Test At 150% Capacity of Fire Pump Performance</i>												
Nozzle Type (allows for multiple types, sizes and/or varying pressures)	Coeff.	Outlet size	# Outlets	Pitot Press	GPM	Suction	Discharge	Net PSI	Rated PSI			
Flow Buster 2-1/2"	0.79	2 1/2	3	7	1169	20	104	84	51			
					Total GPM achieved:	1169						
<i>Emergency Generator Transfer Switch Test Data</i>												
GPM	Suction	Discharge	Net PSI	RPM		RPM	L1 Amps	L2 Amps	L3 Amps	L1 Volts	L2 Volts	L3 Volts
0	0	0	0	0	Churn	1797	0	0	0	0	0	0
L1 Amps	L2 Amps	L3 Amps	L1 Volts	L2 Volts	L3 Volts	100%						
0	0	0	0	0	0	1788	0	0	0	0	0	0
						150%						
						1762	0	0	0	0	0	0

Note: At the 100% Capacity of Fire Pump Performance test point, if Net PSI is 5% below the Rated PSI this indicates a need for an investigation into degraded performance of the Fire Pump.

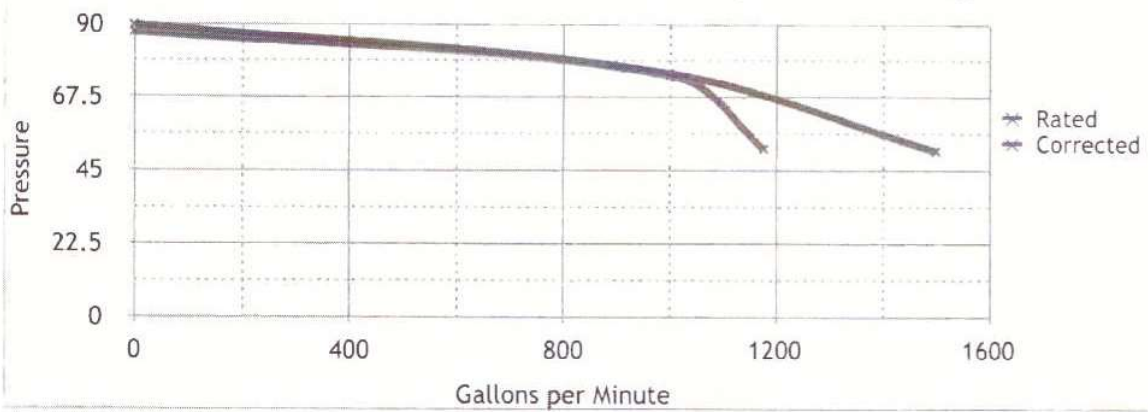
Note: Where measured readings in this test fall below the Manufacturer's listed ratings, or available information used to determine ratings. This does not necessarily indicate a deficiency. Any variance which requires attention will be indicated in an attached Deficiency Addendum.

Annual Fire Pump Capacity Test Graphed Results

Measured Pressure Compared to Rating



RPM Corrected GPM/Net Pressure Compared to Rating



Measured Electric Motor Current

