

# Fire Pump Annual Performance Test Report

## Testing Information:

Date: 09/13/19  
Technician: RANDY HATTON

Job Number: CA28708  
Date of Last Test: UNKNOWN

## Location Data:

Name: M AND T BANK STADIUM  
Street: 1101 RUSSELL STREET  
City: BALTIMORE  
State: MARYLAND Zip: 21203

## Pump Data:

Pump Manufacturer: PEERLESS Model / Type: 6AEF10  
Type of Pump: CENTRIFUGAL Serial #: 186433  
  
Rated Capacity: 1250 gpm (L/min) Size: 4-384-7  
Rated Pressure: 135 psi (bar) Suction: 4  
Rated Speed: 3540 rpm Discharge: 3  
Power: 125 HP Suction From: CITY

## Motor Data:

Manufacturer: BALDOR Serial Number: C1706221312  
Phase: 3 Cycles: 60 HP: 125 AMP: 165  
Rated Voltage: 460 RPM: 3540

## Controller Data:

Manufacturer: HUBBLE Serial Number: 739054  
Model/Type: LX-1200 UL: YES FM: NO  
Voltage: 480 Phase: 3 Cycles: 60  
  
Is the Controller Pilot Light (Power On) Illuminated? YES  
Is the Phase Reversal Pilot Light Off of Normal Phase Rotation Light On? YES  
Was the Fire Pump started manually? YES  
Was the Fire Pump started by pressure drop? YES  
Was the Fire Pump started by emergency measure? YES  
Are supervisory alarms monitored remotely? YES

## Piping Data:

Sensing Lines per NFPA 20? NO Auto Air Release: N/A  
Check valves - suction: 4 in. Discharge: 4 in. Bypass: 4  
Control valves - suction: 4 in. Discharge: 4 in. Bypass: 4  
  
Did the relief valve open at pump churn? YES  
Did the relief valve close during pump testing? YES  
Did the pressure relief valve operate properly? YES  
Is the suction gauge reading normal? YES  
Is the discharge gauge reading normal? YES  
Does the pump room have adequate heat, light and ventilation? YES

## Automatic Start and Stop Data:

Fire Pump - Auto Cut-in PSI: 140 Jockey Pump - Auto Cut-in PSI: 155  
Fire Pump - Auto Cut-out PSI: 170 Jockey Pump - Auto Cut-out PSI: 173

## Water Supply:

Source of Supply: CITY  
Static Pressure: 74 psi  
Residual Pressure: 60 psi  
Flow: 1890 gpm

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## **Annual Test Summary Data:**

	<b>Test 1</b>		<b>Test 2</b>		<b>Test 3</b>	
<b>Test Year</b>	<b>2018</b>	<b>2019</b>	<b>2018</b>	<b>2019</b>	<b>2018</b>	<b>2019</b>
Approx. % of rate pump discharge	0%	0%	100%	100%	150%	150%
Speed RPM		3580		3568		3553
Discharge Pressure PSI		210		182		160
Suction Pressure PSI		74		62		60
Net Pressure PSI	#VALUE!	136	#VALUE!	120	#VALUE!	100
Number of Streams	0	0	5	5	5	5
Size of Streams	0	0	1 3/4	1 3/4	1 3/4	1 3/4
Pitot #1 PSI	0	0		8	12	18
Pitot #2 PSI	0	0		8	13	18
Pitot #3 PSI	0	0		8		18
Pitot #4 PSI	0	0		8		18
Total GPM Flow	0	0	1260	1260	1890	1890
% of Capacity	0%	0%	101%	101%	151%	151%
Voltage:						
V1		466		466		466
V2		466		466		466
V3		465		465		466
Amps:						
A1		32		35		42
A2		32		35		42
A3		32		35		42

## **Remarks:**

PUMP FLOW COMPLETED

## **Fire Pump Churn Baseline Calculations**

	GPM	PSI
Churn	0	135
100%	1250	135
150%	1875	87.75

Fire Pump Test Results - 2018 vs. 2019

