



REPORTING ADDRESS: Bluelight Software 902 Redwood Drive Loveland CO 80538	INSPECTION ADDRESS: Bluelight Training Center 1901 Callado Court Berthoud CO 80513	CUSTOMER # 56258 CONTRACT # 56258 CONTACT: Laura Livingston PHONE: (970) 461-8554 FAX: (970) 461-8555 INSPECTOR(S): ROB SMITH INSPECTION DATE: 09/13/2002
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FIRE PUMP INSPECTION

ANSWER KEY: If question was asked about more than one of the same device, the answer includes brackets. [Number in bracket] = quantity of item inspected. Refer to discrepancies section of report for footnotes shown after brackets. --- indicates that this question is either not applicable or not due for this device.

NFPA 25

FIRE PUMPS

FIRE PUMP DIESEL ENGINE DRIVEN

Are pump suction, discharge and by-pass control valves fully open (5-2.2)?		Yes:[1]		
Are pump suction, discharge and by-pass valves equipped with either: a tamper switch connected to an alarm system, a lock and chain or a seal (5-2.2)?		Yes:[1]		
Visually inspect - Is fire pump suction and discharge piping in good condition and not leaking (5-2.2)?		Yes:[1]		
VISUAL GAUGE READINGS				
AREA	LOCATION	SUCTION PRESSURE (PSI)	DISCHARGE PRESSURE (PSI)	
MAIN BUILDING	PUMP HOUSE	10	120	
Visually Inspect - Is suction reservoir full (5-2.2)?		Yes:[1]		
Visually Inspect - Is fuel tank at least two-thirds full, and strainer, filter & dirt leg cleaned, and system checked for water entrapment (5-2.2)?		Yes:[1]		
Visually Inspect - Is controller selector switch in AUTO position (5-2.2)?		Yes:[1]		
Visually Inspect - Are the batteries (2) voltage readings normal (5-2.2)?			No:[1] 1	
Visually Inspect - Are battery bank A charging current readings normal (5-2.2)?			No:[1] 2	
Visually Inspect - Are battery bank B charging current readings normal (5-2.2)?			No:[1] 3	
Visually Inspect - Are batteries (2) pilot lights ON or batteries failure (2) pilot lights OFF (5-2.2)?		Yes:[1]		
Visually Inspect - Are all alarm pilot lights OFF (5-2.2)?		Yes:[1]		
VISUAL GAUGE READINGS				
AREA	LOCATION	ENGINE RUNNING TIME (HOURS)		
MAIN BUILDING	PUMP HOUSE	0632.50		
Are the crankcase oil level and cooling water level normal and water-jacket heater operating and water strainer cleaned (5-2.2)?		Yes:[1]		
Are electrolyte level in batteries normal and terminals free from corrosion (5-2.2)?		Yes:[1]		
Did the pump start by reducing pressure in the pump controller pressure sensing line (5-3.2)?		Yes:[1]		
FUNCTIONAL TEST RESULTS				
AREA	LOCATION	STARTING PRESSURE (PSI)	TIME TO CRANK (SEC)	TIME TO RUNNING SPEED (SEC)
MAIN BUILDING	PUMP HOUSE	110	2 SEC.	10 SEC.
Visually Inspect - With pump running is there a slight discharge of water from both pump packing glands (5-3.2.4) ?		Yes:[1]		
Is pump free from any unusual noise or vibration when running (5-3.2.4) ?		Yes:[1]		
Did the packing boxes, bearing, or pump casing maintain an acceptable temperature during the test (5-3.2.4) ?		Yes:[1]		
Were engine oil pressure, speed indicator, water and oil temperatures indicator readings normal during test (5-3.2.4)?		Yes:[1]		

Was cooling water flowing from the heat exchanger during test (5-3.2.4)?	Yes:[1]		
Is the exhaust system in good condition and not leaking, and was condensate trap drained (5-3.2.4)?	Yes:[1]		
Was pump operated and tested for 30 minutes (5-3.2.2)?	Yes:[1]		
Under churn (no flow) test condition does circulation relief valve operate and discharge water (5-3.3.2)?	Yes:[1]		
Under churn test condition does pressure relief valve operate properly (5-3.3.2)?	Yes:[1]		
Were churn test conditions maintained for 30 minutes (5-3.3.2)?	Yes:[1]		
****TEST****Press the Test button to conduct the Fire Pump Test. <i>Results of the test will be appended to the inspection report.</i>			
Did all fire pump controller alarm conditions and supervisory sensors operate when tested through simulation (5-3.3.2)?	Yes:[1]		
Did everything appear normal during the test (5-3.3.2)?	Yes:[1]		
Is pump controller pressure sensing within calibration (5-3.3.1)?	Yes:[1]		
Were pump and engine maintenance performed in accordance with the manufacturer's recommendations and schedule (5-5.1)?	Yes:[1]		
Test Gauges on valve by comparison to a calibrated gauge to within 3% of full scale. Is error less than 3% of full scale or have gauges been replaced (2-3.2)?	Yes:[1]		

FIRE PUMP HOUSE

Is the temperature of the pump house maintained at 40° F at all times (5-2.2)?	Yes:[1]		
Are the ventilating louvers free to operate (5-2.2)?	Yes:[1]		

CONTROLLER AUTOMATIC STOP FIRE PUMP

AREA	LOCATION	RECORD RUN TIME (SEC)
MAIN BUILDING	PUMP HOUSE	40 SEC.

FIRE PUMP CIRCULATION RELIEF VALVE

Verify - Does sufficient water flow through valve with pump operating at shutoff pressure to prevent pump from overheating (9-5.4.1.1)?	Yes:[1]		
Visually inspect - Is the pump circulation relief valve in good condition and not leaking (9-5.4.1.1)?	Yes:[1]		
Under test condition does pump circulation relief valve close in accordance with manufacturer's specifications (9-5.4.1.2)?	Yes:[1]		
Was relief valve maintenance performed in accordance with the manufacturer's recommendations and schedule (9-5.5)?	Yes:[1]		

DISCREPANCIES

FIRE PUMP DIESEL ENGINE DRIVEN

Area: MAIN BUILDING Location: PUMP HOUSE

¹ Q# 09 - Visually Inspect - Are the batteries (2) voltage readings normal (5-2.2)?

Condition = BATTERIES ARE SHOWING BAD CELLS

² Q# 10 - Visually Inspect - Are battery bank A charging current readings normal (5-2.2)?

Condition = BATTERY SHOWING BAD CELL

³ Q# 11 - Visually Inspect - Are battery bank B charging current readings normal (5-2.2)?

Condition = BATTERY SHOWING BAD CELL

Comments: MISSING TWO (2) 2 1/2" CAPS FROM TEST HEADER.

The owner and/or designated representative acknowledges the responsibility of the operating condition of the component parts at the time of this inspection. It is agreed that the inspection service provided by the contractor as prescribed herein is limited to performing a visual inspection and/or routine testing, and any investigation or unscheduled testing, modification, maintenance, repair, etc., of the component parts is not included as part of the inspection work performed. It is further understood that all information contained herein is provided to the best of the knowledge of the party providing such information.

Inspector's Signature: X _____
Inspector's Name: ROB SMITH

Customer's Signature: X _____
Customer's Name: LAURA LIVINGSTON