PARAGON
RISK ENGINEERING

DIESEL FIRE PUMP INSPECTION CHECKLIST

INSTRUCTIONS: Run fire pumps weekly and record results in the appropriate column. Promptly correct any deficiencies found. The jockey pump stop point should equal the pump churn pressure plus the minimum static supply pressure. The jockey pump start point should be at least 0.68-bar (10-psi) less than the jockey pump stop point. The fire pump start point should be 0.34-bar (5-psi) less than the jockey pump start point. Use 0.68 bar (10-psi) increments for each additional pump. Leave the pump in automatic start mode after testing. Impairments should be managed via a formal procedure. Operate pumps for 30-minutes after repairs to insure proper operation.

LOCATION

ITEMS LISTED FOR TESTING	CORRECT READINGS	*USE SPACES BELOW TO RECORD TEST RESULTS*											
		1ST WEEK		2ND WEEK		3RD WEEK		4TH WEEK		5TH WEEK		6TH WEEK	
1. DATE FIRE PUMP TESTED	Month/Day/Yr.												
2. TESTED BY WHOM	Your Initials												
3. ENGINE RUN TIME, OPERATE ALL INTERNAL COMBUSTION ENGINES FOR AT LEAST 30 MINUTES WEEKLY.	30 Minutes Weekly	_____ Min.		_____ Min.		_____ Min.		_____ Min.		_____ Min.		_____ Min.	
4. PUMP SUCTION PRESSURE (PSI)													
5. PUMP DISCHARGE PRESSURE (PSI)													
6. RPM (AT MAXIMUM SPEED)													
7. OIL PRESSURE *(SHOULD CONFORM TO MANUFACTURER'S SPECIFICATIONS)* INVESTIGATE PROBLEM AND MAKE REPAIRS IF NECESSARY	IDLE	IDLE		IDLE		IDLE		IDLE		IDLE		IDLE	
	RUN	RUN		RUN		RUN		RUN		RUN		RUN	
8. COOLING WATER SUPPLY FOR THE HEAT EXCHANGER	WATER DISCHARGE OBSERVED	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
9. AMPS (RECORD ENGINE GAUGE READING) (AMP READING SHOULD BE +2 TO +5 AMPS AFTER 5 MINUTES RUNNING TIME)	+2/5 AMPS	+ _____ - _____		+ _____ - _____		+ _____ - _____		+ _____ - _____		+ _____ - _____		+ _____ - _____	
10. CONDITION OF BATTERY CHARGER (SEE ITEM 9 FOR GUIDANCE)	CHARGING SATIS-FACTORILY	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	
11. FUEL TANK LEVEL (KEEP TANK FULL AT ALL TIMES TO PREVENT CONDENSATION)	3/4 FULL TO FULL	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	
12. CHECK OIL STICK TO DETERMINE LEVEL/ CONDITION OF CRANKCASE OIL. ADD OIL WHEN OIL LEVEL REACHES "ADD" MARK.	OIL STICK ON "FULL"?	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	
13. PUMP ROOM TEMPERATURE	MIN.4.4°C (40°F)												
14. WATER AND OIL HEATER FOR ENGINE IS OPERATING	MIN. 21.1°C (70°F) ENGINE TEMP.	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
15. COOLING SYSTEM TEMPERATURE	MAX. °F												
*16. FIRE PUMP AUTOMATIC START PRESSURE SETTING													
*17. JOCKEY PUMP COMES ON AT													
*18. JOCKEY PUMP SHUTS OFF AT													
19. ARE STUFFING BOX GLANDS AT PROPER TIGHTNESS?	SLOW DRIP	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO

ITEMS LISTED FOR TESTING	CORRECT READINGS	*USE SPACES BELOW TO RECORD TEST RESULTS*					
		1ST WEEK	**2ND WEEK**	**3RD WEEK**	**4TH WEEK**	**5TH WEEK**	**6TH WEEK**
20. HAVE ALL OIL FILTERS, WATER FILTER & FUEL FILTERS BEEN CHANGED IN LAST 6 MO? PROVIDE DATE _____/_____/_____							
21. DID PUMP START AUTOMATICALLY ON PRESSURE DROP? (OPEN PET COCK AND FLOW WATER TO DROP PRESSURE IN SENSING LINE)							
22. ARE BATTERY CONNECTIONS FREE OF CORROSION & TIGHT?							
23. DID DIESEL START AUTOMATICALLY ON A & B BATTERIES WHEN TESTED SEPARATELY?							
24. ANTIFREEZE ADEQUATE IN COOLING SYSTEM HEAT EXCHANGER?							
25. DID YOU ACTUALLY OBSERVE SUCTION TANK OVERFLOW TO DETERMINE IF FULL?							
26. RUNNING PUMP AND PUMP OFF ALARMS TESTED SATISFACTORY TO CENTRAL MONITORING STATION?							
27. WAS PUMP LEFT IN FULLY AUTOMATIC STARTING MODE AT END OF TEST AND IS GREEN "ON" LIGHT BURNING?							

COMMENTS: DESCRIBE DEFICIENCIES AND CORRECTIVE ACTION:

HOUR METER READING (IF METER PROVIDED)	END OF TEST:	BEFORE TEST:

INSPECTOR'S SIGNATURE _____ SUPERVISOR'S SIGNATURE _____

File for review by your *Paragon Risk Engineering* representative