



Al Aswad Trading & Contracting Co. (ELECTRO-MECHANICAL DIVISION)
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ATCE-EMD-SSS-FORM-05-00a

SERVICE REPORT

Customer Name:	Synohydro Corporation Ltd.	Date:	Aug 14, 2024
Contact Person:		File #	
Location:	Saudi Aramco SPARK Project		
References:			

Service information:

LN	Description/Activities	Remarks
1	Electric Fire Pump Controller with Automatic Transfer Switch Functional Test Controller Make: Hubbel Model: MPT700H-50-415C MTS-225A; S/N: 24715555 Electrical Rating: 125HP; 415Volts; 3 Phase; 60Hz; FLA 208A Max	For Information & Action

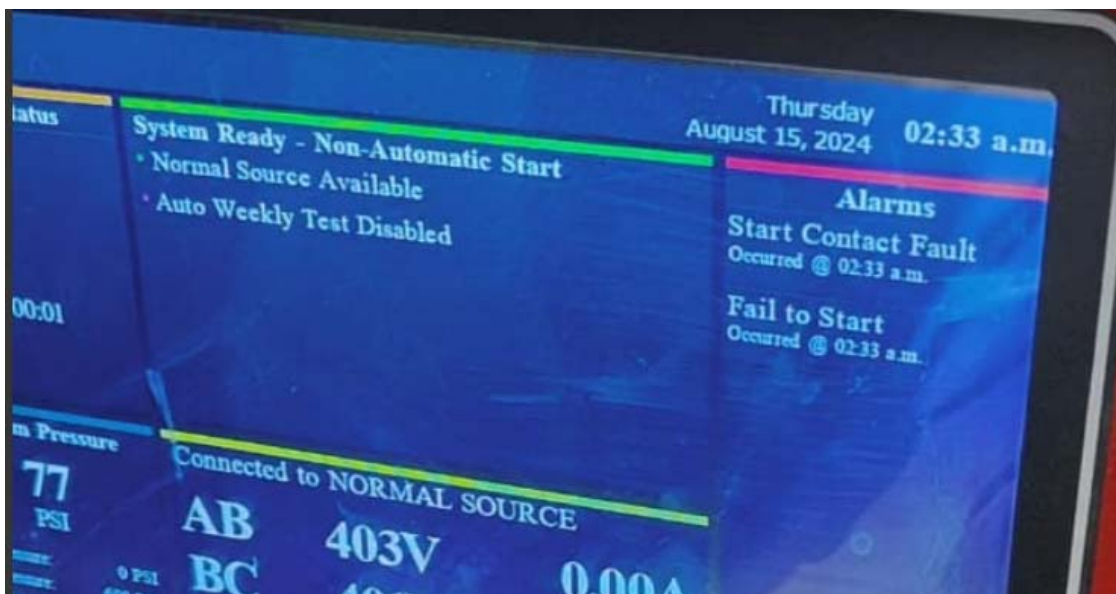
Report Details:

Activities:

- Al Aswad team utilized on August 14, 2024 @ Saudi Aramco Spark Project to Commission FW equipment's.

Observation at site:

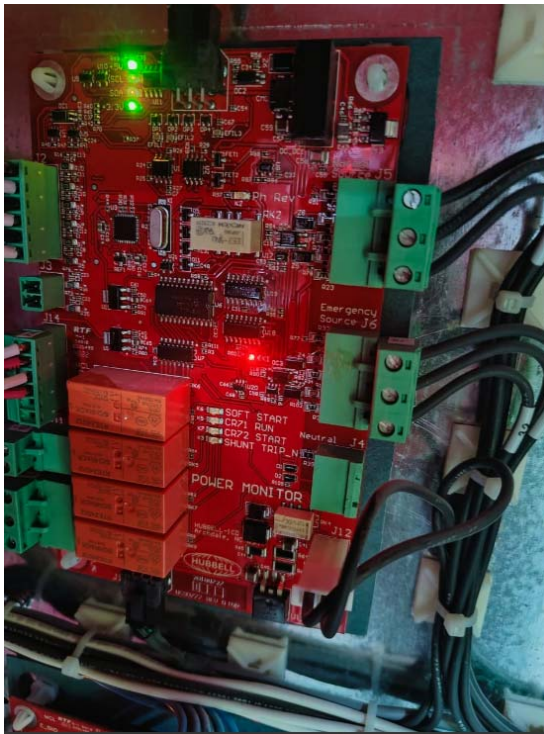
- Electric Controller visually inspected in well preserve and installed in good condition.
- Power Supply Cable are secure for MPT430-H-125-415C
Normal Source are healthy L1-L2= 401Vac L2-L3= 401 Vac L3-L1=403 Vac
- Power Supply Cable for MTS-225A (Automatic Transfer Switch) not been installed.
- Power Supply cables from Controller to Motor disconnected.
- During Start-up test of controller with motor isolated we observed the following Alarms:
 - Start Contact Fault**
 - Fail to start**



SERVICE REPORT

Troubleshoot Action Taken (Start Transition):

- Verified Motor Contactor MC45, MC44 and MS42 not latching.
- Verified the Control Relay CR72 and CR71 are not latching.
- Verified Power Monitor Board K5 (CR71 RUN) & k7 (CR72 Start) Led indicator is healthy
- Check cable connection and cable continuity from Power Monitor board to CR71 (A1/A2) & CR72(A1/A2) all are okay.
- Power supply 24vac from J14 to CR71 & CR72 not verified but the control relays CR71 & CR72 creates a buzzing or humming noise.



Conclusion:

CR71 and CR72 initially suspected with a coil problem,
 Or source from Power Monitor Board. ***Please Advise***



Service Representative/s:

1. Arroza, Mike
2. Barkat

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Al-Aswad Supervisor/Engineer