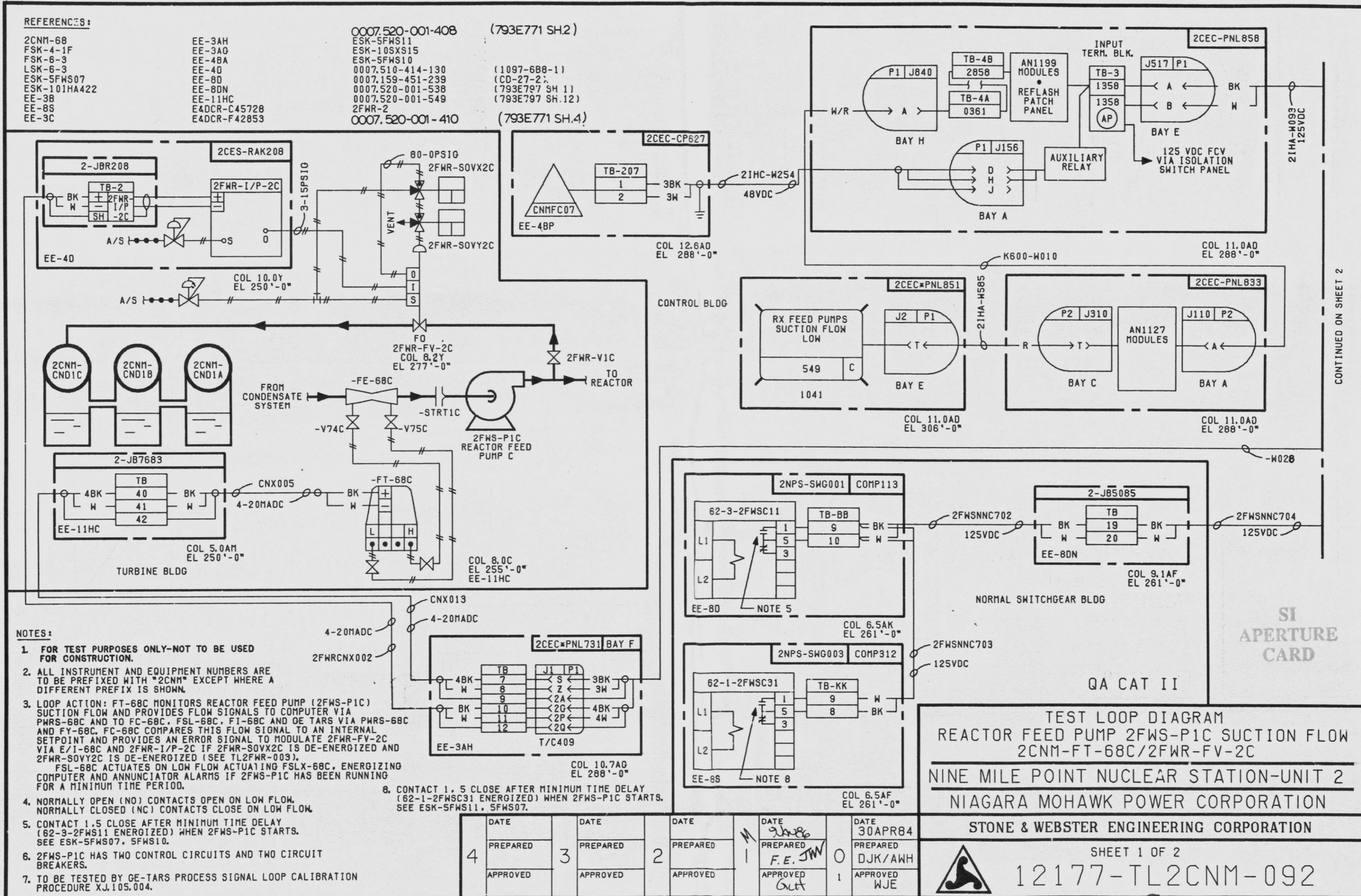


REFERENCES:

2CNM-68  
FSK-4-1F  
FSK-6-3  
LSK-6-3  
ESK-5FWS07  
ESK-101HA422  
EE-3B  
EE-8S  
EE-3C

EE-3AH  
EE-3AO  
EE-4BA  
EE-4D  
EE-8D  
EE-8DN  
EE-11HC  
E4DCR-C45728  
E4DCR-F42853

0007.520-001-408 (793E771 SH.2)  
ESK-5FWS11  
ESK-10XS15  
ESK-5FWS10  
0007.510-414-130 (1097-688-1)  
0007.159-451-239 (CD-27-2)  
0007.520-001-538 (793E797 SH.1)  
0007.520-001-549 (793E797 SH.12)  
2FWR-2  
0007.520-001-410 (793E771 SH.4)



NOTES:

1. FOR TEST PURPOSES ONLY-NOT TO BE USED FOR CONSTRUCTION.
2. ALL INSTRUMENT AND EQUIPMENT NUMBERS ARE TO BE PREFIXED WITH "2CNM" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
3. LOOP ACTION: FT-68C MONITORS REACTOR FEED PUMP (2FWS-P1C) SUCTION FLOW AND PROVIDES FLOW SIGNALS TO COMPUTER VIA PHRS-68C AND TO FC-68C. FSL-68C, FI-68C AND GE TARS VIA PHRS-68C AND FY-68C. FC-68C COMPARES THIS FLOW SIGNAL TO AN INTERNAL SETPOINT AND PROVIDES AN ERROR SIGNAL TO MODULATE 2FWR-FV-2C VIA E/I-68C AND 2FWR-1/P-2C IF 2FWR-SOVX2C IS DE-ENERGIZED AND 2FWR-SOVY2C IS DE-ENERGIZED (SEE TL2FWR-003). FSL-68C ACTUATES ON LOW FLOW ACTUATING FSLX-68C, ENERGIZING COMPUTER AND ANNUNCIATOR ALARMS IF 2FWS-P1C HAS BEEN RUNNING FOR A MINIMUM TIME PERIOD.
4. NORMALLY OPEN (NO) CONTACTS OPEN ON LOW FLOW, NORMALLY CLOSED (NC) CONTACTS CLOSE ON LOW FLOW.
5. CONTACT 1.5 CLOSE AFTER MINIMUM TIME DELAY (62-3-2FWS11 ENERGIZED) WHEN 2FWS-P1C STARTS. SEE ESK-5FWS07, 5FWS10.
6. 2FWS-P1C HAS TWO CONTROL CIRCUITS AND TWO CIRCUIT BREAKERS.
7. TO BE TESTED BY GE-TARS PROCESS SIGNAL LOOP CALIBRATION PROCEDURE XJ.105.004.

8. CONTACT 1, 5 CLOSE AFTER MINIMUM TIME DELAY (62-1-2FWS31 ENERGIZED) WHEN 2FWS-P1C STARTS. SEE ESK-5FWS11, 5FWS07.

DATE	DATE	DATE	DATE	DATE
PREPARED	PREPARED	PREPARED	PREPARED	PREPARED
APPROVED	APPROVED	APPROVED	APPROVED	APPROVED

TEST LOOP DIAGRAM  
REACTOR FEED PUMP 2FWS-P1C SUCTION FLOW  
2CNM-FT-68C/2FWR-FV-2C  
NINE MILE POINT NUCLEAR STATION-UNIT 2  
NIAGARA MOHAWK POWER CORPORATION  
STONE & WEBSTER ENGINEERING CORPORATION  
SHEET 1 OF 2  
12177-TL2CNM-092

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