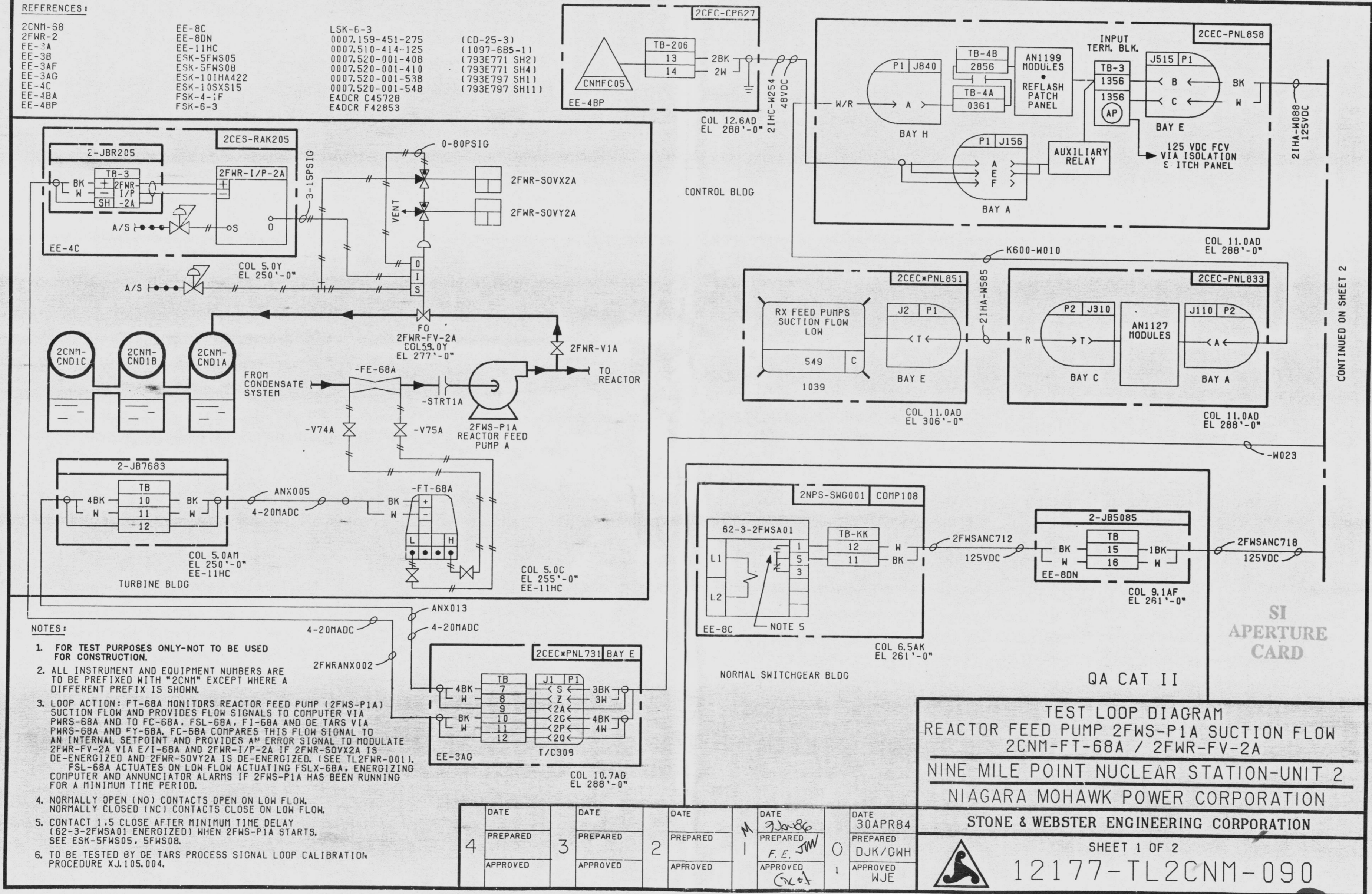


INFORMATION ONLY

REFERENCES:

2CNM-58	EE-8C	LSK-6-3	(CD-25-3)
2FWR-2	EE-8DN	0007.159-451-275	(1097-685-11)
EE-3A	EE-11HC	0007.510-414-125	(793E771 SH2)
EE-3B	ESK-5FWS05	0007.520-001-408	(793E771 SH4)
EE-3AF	ESK-5FWS08	0007.520-001-410	(793E797 SH1)
EE-3AG	ESK-101HA422	0007.520-001-538	(793E797 SH11)
EE-4C	ESK-10SX515	0007.520-001-548	E4DCR C45728
EE-4BA	FSK-4-1F	E4DCR F42853	
EE-4BP	FSK-6-3		



NOTES:

- FOR TEST PURPOSES ONLY-NOT TO BE USED FOR CONSTRUCTION.
- ALL INSTRUMENT AND EQUIPMENT NUMBERS ARE TO BE PREFIXED WITH "2CNM" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
- LOOP ACTION: FT-68A MONITORS REACTOR FEED PUMP (2FWS-P1A) SUCTION FLOW AND PROVIDES FLOW SIGNALS TO COMPUTER VIA PWS-68A AND TO FC-68A, FSL-68A, FI-68A AND GE TARS VIA PWS-68A AND FY-68A. FC-68A COMPARES THIS FLOW SIGNAL TO AN INTERNAL SETPOINT AND PROVIDES AN ERROR SIGNAL TO MODULATE 2FWR-FV-2A VIA E/I-68A AND 2FWR-I/P-2A IF 2FWR-SOVX2A IS DE-ENERGIZED AND 2FWR-SOVY2A IS DE-ENERGIZED. (SEE TL2FWR-001). FSL-68A ACTUATES ON LOW FLOW ACTUATING FSLX-68A, ENERGIZING COMPUTER AND ANNUNCIATOR ALARMS IF 2FWS-P1A HAS BEEN RUNNING FOR A MINIMUM TIME PERIOD.
- NORMALLY OPEN (NO) CONTACTS OPEN ON LOW FLOW. NORMALLY CLOSED (NC) CONTACTS CLOSE ON LOW FLOW.
- CONTACT 1.5 CLOSE AFTER MINIMUM TIME DELAY (62-3-2FWSA01 ENERGIZED) WHEN 2FWS-P1A STARTS. SEE ESK-5FWS05, 5FWS08.
- TO BE TESTED BY GE TARS PROCESS SIGNAL LOOP CALIBRATION PROCEDURE XJ.105.004.

DATE	DATE	DATE	DATE	DATE	DATE
4	3	2	1	0	1
PREPARED	PREPARED	PREPARED	PREPARED	PREPARED	PREPARED
APPROVED	APPROVED	APPROVED	APPROVED	APPROVED	APPROVED

TEST LOOP DIAGRAM
 REACTOR FEED PUMP 2FWS-P1A SUCTION FLOW
 2CNM-FT-68A / 2FWR-FV-2A
 NINE MILE POINT NUCLEAR STATION-UNIT 2
 NIAGARA MOHAWK POWER CORPORATION

STONE & WEBSTER ENGINEERING CORPORATION
 SHEET 1 OF 2
 12177-TL2CNM-090

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CONTINUED ON SHEET 2