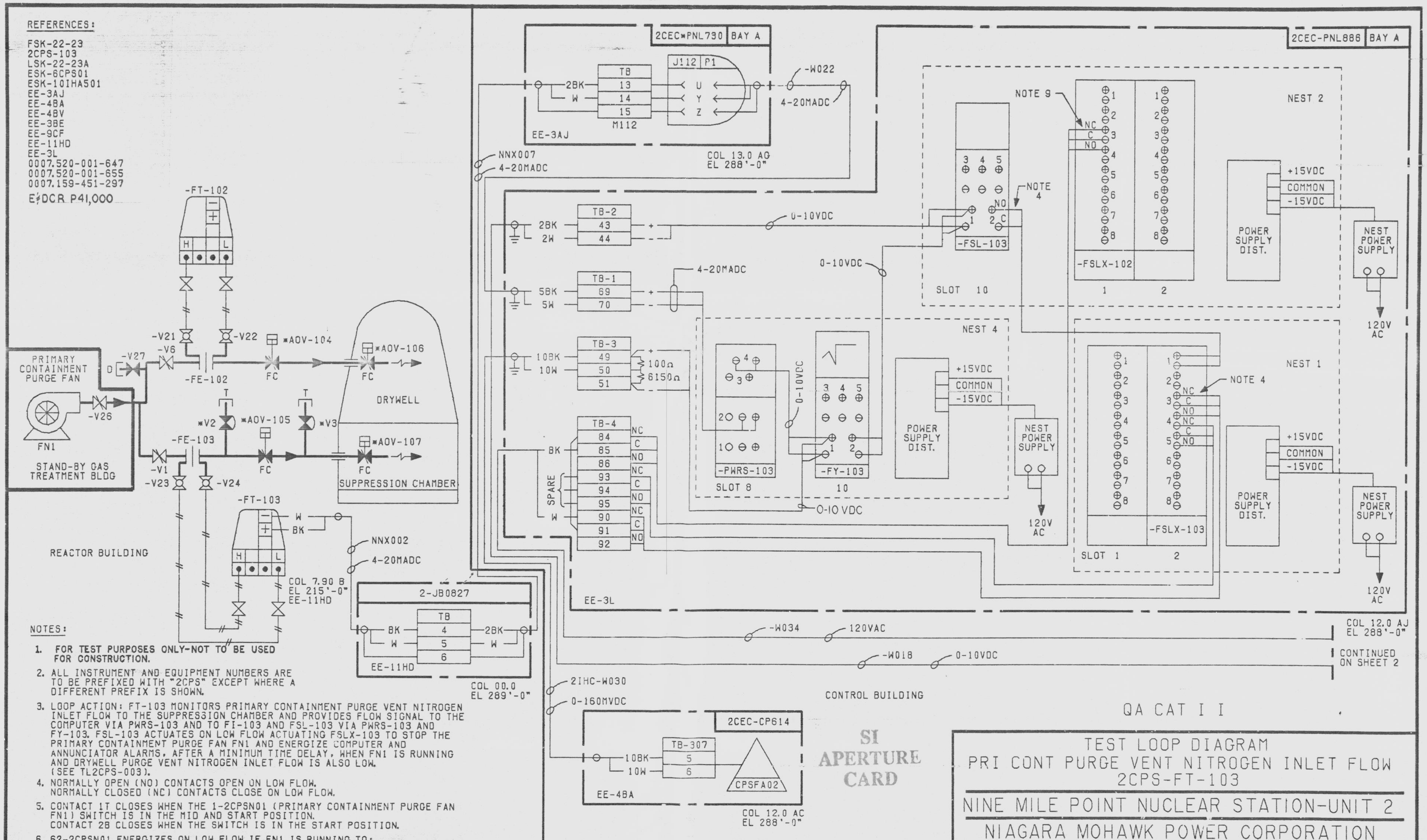
07-318-91

REFERENCES:

FSK-22-23
2CPS-103
LSK-22-23A
ESK-6CPS01
ESK-10IHA501
EE-3AJ
EE-4BA
EE-4BV
EE-3BE
EE-9CF
EE-11HD
EE-3L
0007.520-001-647
0007.520-001-655
0007.159-451-297

E/DCR P41,000



NOTES:

1. **FOR TEST PURPOSES ONLY-NOT TO BE USED FOR CONSTRUCTION.**
2. ALL INSTRUMENT AND EQUIPMENT NUMBERS ARE TO BE PREFIXED WITH "2CPS" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
3. LOOP ACTION: FT-103 MONITORS PRIMARY CONTAINMENT PURGE VENT NITROGEN INLET FLOW TO THE SUPPRESSION CHAMBER AND PROVIDES FLOW SIGNAL TO THE COMPUTER VIA PWRS-103 AND TO FI-103 AND FSL-103 VIA PWRS-103 AND FY-103. FSL-103 ACTUATES ON LOW FLOW ACTUATING FSLX-103 TO STOP THE PRIMARY CONTAINMENT PURGE FAN FN1 AND ENERGIZE COMPUTER AND ANNUNCIATOR ALARMS, AFTER A MINIMUM TIME DELAY, WHEN FN1 IS RUNNING AND DRYWELL PURGE VENT NITROGEN INLET FLOW IS ALSO LOW. (SEE TL2CPS-003).
4. NORMALLY OPEN (NO) CONTACTS OPEN ON LOW FLOW. NORMALLY CLOSED (NC) CONTACTS CLOSE ON LOW FLOW.
5. CONTACT 1T CLOSES WHEN THE 1-2CPSN01 (PRIMARY CONTAINMENT PURGE FAN FN1) SWITCH IS IN THE MID AND START POSITION. CONTACT 2B CLOSES WHEN THE SWITCH IS IN THE START POSITION.
6. 62-2CPSN01 ENERGIZES ON LOW FLOW IF FN1 IS RUNNING TO: OPEN CONTACT 3-5 AFTER A MINIMUM TIME DELAY. CLOSE CONTACT 2-6 AFTER A MINIMUM TIME DELAY.
7. CONTACT CLOSES WHEN FN1 IS RUNNING.
8. CONTACT OPENS ON MOTOR OVERLOAD.
9. NORMALLY CLOSED (NC) CONTACT CLOSES (FSLX-102 ACTUATED) ON DRYWELL PURGE VENT NITROGEN INLET FLOW LOW. (SEE TL2CPS-003). MODULE SHOWN FOR REFERENCE PURPOSES ONLY.

Rev	Date	Prepared	Approved
4	DATE	PREPARED	APPROVED
3	DATE	PREPARED	APPROVED
2	DATE	PREPARED	APPROVED
1	DATE	PREPARED	APPROVED
0	DATE 20 MAR 85	PREPARED DJR	APPROVED

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TEST LOOP DIAGRAM
PRI CONT PURGE VENT NITROGEN INLET FLOW
2CPS-FT-103

NINE MILE POINT NUCLEAR STATION-UNIT 2

NIAGARA MOHAWK POWER CORPORATION

STONE & WEBSTER ENGINEERING CORPORATION

SH 1 OF 2

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