



- NOTES:
- FOR GENERAL NOTES AND LEGEND SEE EE-1CA.
 - ALL DC BREAKERS ARE TWO POLE.
 - BATTERY BREAKERS TO BE USED FOR BATTERY TEST.
 - ALL MAIN SWITCHES IN DISTRIBUTION PANELS ARE NORMALLY CLOSED.
 - FOR CONTINUATION OF NORMAL BUS ONE LINE DIAGRAM SEE EE-1BA.
 - PANELBOARDS 2VBS-PNL103, A104, A105, A106, A107 AND 2VBS-PNL103, B104, B105, B106, B107 SUPPLY DIVISIONALIZED CHANNEL POWER TO RPS AND OTHER RPS CONTROL CIRCUITS. THESE PANELBOARDS ARE FED FROM NORMAL 10A CAT II POWER SUPPLIES BECAUSE THE CONTROL CIRCUITS SUPPLIED FROM THESE PANELBOARDS RETURN TO A FAIL-SAFE NODE UPON LOSS OF ELECTRICAL POWER. THESE PANELBOARDS ARE EXPECTED TO PROTECT DOWNSTREAM DA CAT I EQUIPMENT FROM OVERLOAD AND SHORT CIRCUIT CONDITIONS.
 - SET 2BMS-CHOR3A1, 1B1 & 1C1 AC INPUT CIRCUIT BREAKER AT LOWEST POSSIBLE INSTANTANEOUS SETTING.
 - SET 2BMS-CHOR3A1, 1B1 & 1C1 DC INPUT CIRCUIT BREAKER AT HIGHEST POSSIBLE INSTANTANEOUS SETTING.
 - SET 2BMS-CHOR3A1, 1B1 & 1C1 HIGH VOLTAGE SENSING RELAY PICK UP SETTING AT 38 VOLTS DC.
 - SET 2BMS-CHOR3A1, 1B1, 3C1 & 3D1 AC INPUT CIRCUIT BREAKER IS NON-ADJUSTABLE.
 - SET 2BMS-CHOR3A1 & 3B1 DC OUTPUT CIRCUIT BREAKER INSTANTANEOUS SETTING AT ITS HIGHEST POINT.
 - SET 2BMS-CHOR3A1, 3B1, 3C1 & 3D1 HIGH VOLTAGE SENSING RELAY PICK UP SETTING AT 38 VOLTS DC.
 - SET 2BMS-CHOR3A1, 3B1, 3C1 & 3D1 LOW VOLTAGE SENSING RELAY AT 22 VOLTS DC DROPOUT SETTING. SET PICK UP AT 25 VOLTS DC.
 - VOLTAGE REGULATORS OUTPUT SET AT 126 VOLTS.
 - OUTPUT VOLTAGE TO BE ADJUSTED TO 124VAC (±1) PER VENDOR INSTRUCTIONS.

SI APERTURE CARD



APPROVED: *Thomas L. Ott*
 LICENSED PROFESSIONAL ENGINEER NO. 11111
 ALIENATION EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL

NUCLEAR SAFETY RELATED
 QA CAT I & II

ONE LINE DIAGRAM
 LOW VOLTAGE
 POWER DISTRIBUTION
 NINE MILE POINT NUCLEAR STATION-UNIT 2
 NIAGARA MOHAWK POWER CORPORATION
 STONE & WEBSTER ENGINEERING CORPORATION
 CHESTNUT HILL, MA

CH DRAWING NUMBER 12177-EE-1BH-5
 DESIGNED BY T. DONAHUE DRAWN BY D. ANFILL
 CHECKED BY J. CHESTERTON CHG BY T. DONAHUE
 DATE 5/11/85

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NO.	DATE	DESCRIPTION	BY	CHKD.
1	5/11/85	ISSUE FOR CONSTRUCTION	T. DONAHUE	D. ANFILL
2	5/11/85	REVISION	T. DONAHUE	D. ANFILL
3	5/11/85	REVISION	T. DONAHUE	D. ANFILL
4	5/11/85	REVISION	T. DONAHUE	D. ANFILL
5	5/11/85	REVISION	T. DONAHUE	D. ANFILL
6	5/11/85	REVISION	T. DONAHUE	D. ANFILL
7	5/11/85	REVISION	T. DONAHUE	D. ANFILL
8	5/11/85	REVISION	T. DONAHUE	D. ANFILL
9	5/11/85	REVISION	T. DONAHUE	D. ANFILL
10	5/11/85	REVISION	T. DONAHUE	D. ANFILL

07-91
 THIS DRAWING CREATED ELECTRONICALLY