ONE LINE DIAGRAM

480V BUS 13 | 480V BUS 15

480V SWGR DWG 10905 SH 10

DB-25 ACB 52/MG1A | DB-25 ACB 52/MG1B

M — G

ROD DRIVE PWR SUPPLY W. BUFFALO DWG. G36G646

DB-50 ACB 52-1 | DB-50 ACB 52-2

REACTOR TRIP SWGR

DB-50 ACB 52/RTB | DB-50 ACB 52/BYB

DB-50 ACB 52/RTA | DB-50 ACB 52/BYA

SOLID STATE ROD CONTROL CABINETS DWG. G17FG55

REACTOR PROTECTION RACK DWG. 110E053 SH 9

CONTROL BOARD

TRAIN 'A'

RC12 — RD12

125 V DC AT RACK BATTERY 1A

RT-1 RT-2 RT-5 RT-6 RT-7 RT-8 RT-9 RT-10 RT-11 RT-12 RT-13 RT-14 RT-3 RT-4

REACTOR TRIP RELAYS REF. (M) 110E053 SH. 2

RR-1 RW-1 RB-1 RY-1

(NOTE 1) PT-2 PT-1 TC 409A-1 TC 409A-2 (NOTE 2)

ZIRCONIUM GUIDE TUBE INTERLOCK (10909-209)

52 RTA SET 559 — 52 RTA TRIP 554 (NOTE 3)

L59 G 3 2 — L54 R 3 2

52 BYB SET 571 — 52 BYB TRIP 564

L71 G 3 2 — L64 R 3 2

BYB RT AX C1 — BFD 665 — RECP EVENT RECORDER (RTB-RTA) — RECP

BYB RT AX — BYB RT AX

120 VAC SOURCE AT RACK

RTA-4 RTA-9 RTA-2 RTA-7 RTA-6 RTA-11 RTA10 TRF4 TRC-4 RTA-8 RTA-5 RTA12 RTB-1 RTA-3

TO RESET SOLID STATE ROD CONTROL COUNTER

REACTOR TRIP SWGR

1BP 10A — 1BP1 — 1BC — 1BG — 1BT — 1BV2 — 1BV1

DRAKE 100K 250V ¼W — NE51 NEON

1BN 10A — 1BN1

125V DC SOURCE BATTERY 1A

2CP 10A — 2CP1 — 2CC — 2CG — 2CT — 2CV2 — 2CV1

2CCP — 2CC — 2CT1

2CN 10A — 2CN1

125V DC SOURCE BATTERY 1B

1CP 10A — 1CP1 — 1CC — 1CG — 1CT — 1CV2 — 1CV1

ICN 10A — ICN1

2BP 10A — 2BP1 — 2BC — 2BG — 2BT — 2BV2 — 2BV1

2BCP — 2BT1

2BN 10A — 2BN1

MANUAL TRIP OF BKR UV TRIP DEVICE

TO DEVICE MT1-1X MT2 2X DWG. 10E053 SH 7 RACK (RY1) — TO DEVICE MT1-2X MT2-1X DWG. 10E053 SH 7 RACK (RW1)

107 108 2011 2012

REACTOR TRIP RESET

REACTOR EMERGENCY TRIP

ANN(K2) 10905 SH. 415 — ANN (B5) 10905 SH. 365

AU1 AU2 AU3 AU4

52b RTA 52b RTB 52b BYA 52b BYB

20/AST 10905 SH. 115 — 20/ET 10905 SH. 115

100K 250V ¼W — NE51 NEON

TO COMPUTER

52/RTA | 52/BYB | 52/RTB | 52/BYA

SPARES 52/RTA

SPARES 52/BYB

SPARES 52/RTB

SPARES 52/BYA

NOTES:

1. DURING ON LINE TESTING OF THE UV COIL THE TWO PT CONTACTS CAN BE OPENED BY OPERATING THE CENTER PLUNGER ON RELAYS PT-1 & PT-2 IN RACK RY-1 FOR BREAKER RTA & PT-1 & PT-2 IN RACK RY-2 FOR BREAKER RTB.
2. DURING TESTING OF THE UV COIL THE TWO 409 & 410 CONTACTS CAN BE OPERATED BY USING THE TEST SWITCH AND TEST POINTS IN THE FOX 1 & FOX 2 RACKS RESPECTIVELY.
3. TO TEST THE SHUNT TRIP COILS, SWITCH 554 IN THE RU/TK-1 RACK CAN BE USED TO ENERGIZE THE STA ON RTA AND SWITCH 554 IN RU/TK-2 RACK USED TO ENERGIZE THE STA ON RTB.

NOTE: THIS DRAWING IS THE GENERAL ARRANGEMENT SCHEMATIC FOR ALL 4 BREAKERS, DETAIL CONTROL SCHEMATICS ARE SHOWN ON SHEETS 1 & 2.

Docket # 50-244
Control # 8605210220
Date 5/22/86 of Document
REGULATORY DOCKET FILE

TI APERTURE CARD

| | CONSTRUCTION |
|---|---|
| | LIMITED CONSTRUCTION: AS NOTED |
| | PRELIMINARY NOT FOR CONSTRUCTION |
| | BIDDING PURPOSES |
| | AS BUILT 3698 |
| DATE | RELEASED FOR ENGR. |

| NO. | REVISION | DRAWN BY | CK'D | RESP. ENGR | ENGR MANGR |
|---|---|---|---|---|---|
| 2 | AS NOTED | A Sollow | BC/BS | [illegible] | [illegible] |
| 1 | AS BUILT EWR 2709 | RAB | RAB | RAB | [illegible] |
| 0 | ORIGINAL | DH | [illegible] | [illegible] | [illegible] |
| | | 3-9-77 | 3-17-77 | 3-17-77 | 3-18-77 |

GINNA STATION

SCALE: ~

| | | | | |
|---|---|---|---|---|
| 2 | ADDED NOTES 1,2 & 3 | EJD | [illegible] | [illegible] |
| | | 5-1-86 | 5-5-86 | 5-5-86 |
| 1 | PER EWR 3698 INDICATING LIGHTS FOR BYA & BYB BKRS | DGS | RLC | [illegible] |
| | | 1-27-86 | 2-5-86 | 2-7-86 |

"This drawing includes portions of Class 1E Electrical systems. Refer to notes and specifications to determine specific QA program applicability."

GINNA STATION UNIT NO. 1
REACTOR BREAKER SCHEMATIC

EWR 1693 | 33013-673 (SHT. 3 OF 3) | 4

POOR ORIGINAL

8605210227