

| REVISIONS | |
|-----------|---|
| NO. | DESCRIPTION |
| 1 | ISSUE |
| 2 | PLANT AC AUXILIARY POWER SYSTEM STABLE LINE |
| 3 | 480V SWGR 2E2X-A SYSTEM SCHEMATIC |

- NOTES:
- 480V SWGR PROVIDED ON UNIT #1 BY 7045-5552G
 - ALL CKT BREAKS ARE 3-POLE, 800A FR WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED.
800A FR BREAKS HAVE 200,000 RMS SYM INTERRUPTING RATING AT 480V.
1600A FR BREAKS HAVE 200,000 RMS SYM INTERRUPTING RATING AT 480V.
3200A FR BREAKS HAVE 25,000 RMS SYM INTERRUPTING RATING AT 480V.
AS NOTED, BREAKS ARE EQUIPPED WITH AN ELECTRICALLY LOCKOUT ATTACHMENT ACTIVATED WHEN BREAK IS TRIPPED AUTOMATICALLY BY THE AMPROTECTOR.
 - RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TYP APPROVED EQUAL.

- THIS SWGR IS SUBJECT TO ALL REQUIREMENTS FOR CLASS 1E ELEC EPT.
- EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE SWGR, OR THE CKT BREAKS, IS PART OF THE 480V CLASS 1E DC AUX PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, 2E1. THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH 2E1, EXCEPT AS NOTED. ALL OTHER DEVICES WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEAD OF SYMBOL, EXCEPT AS NOTED. THE SWGR PWR NO. UNIT DESIGNATIONS ARE FORMED AS FOLLOWS USING THE PWR NO. (XX), AND THE TRAIL DESIGNATION (Y), A OR B: 2E1-ELV5-25X-Y.
- SWGR LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
- SEE DWG 208074-81 FOR LOADS THAT REQUIRE DIESEL PWR.
- BLOWN FUSE, TRIP BREAKER

- SYMBOLS:
- - PRIMARY CONTAINMENT, PENETRATION
 - ◇ - KEY INTERLOCK
 - XXX - UNIT & SYS DESIGNATION (SEE NOTE 5)
 - - RED INDICATING LIGHT
 - ▲ - WHEN SHOWN IN PACKED (DISCONNECTED) POSITION USE SHIPMENT BRACKET TO INSURE STABILITY, DO NOT LEAVE THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS.
 - (with L51G) - SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
 - L - LONG TIME DELAY (OVERLOAD)
 - S - SHORT TIME DELAY (SELECTIVE TRIP)
 - I - INSTANTANEOUS (FAULT CURRENT)
 - G - GROUND (FAULT CURRENT)
 - - INTERFACE FOR STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYS (SEANS)
 - ▽ - CONNECTION TO REMOTE METER UNIT CONTROL ROOM
 - - INTERFACE FOR REMOTE CONTROL

| NO. | REV. | DATE | DESCRIPTION |
|-----|------|----------|---|
| 1 | 1 | 11/12/81 | ISSUE FOR CONSTRUCTION |
| 2 | 2 | 11/12/81 | REPLACE CVT WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 3 | 3 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 4 | 4 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 5 | 5 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 6 | 6 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 7 | 7 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 8 | 8 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 9 | 9 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |
| 10 | 10 | 11/12/81 | REPLACE 2E1-EMOT-035-A WITH 2E1-EMOT-035-A VIA 480V MCC 2E2-A |

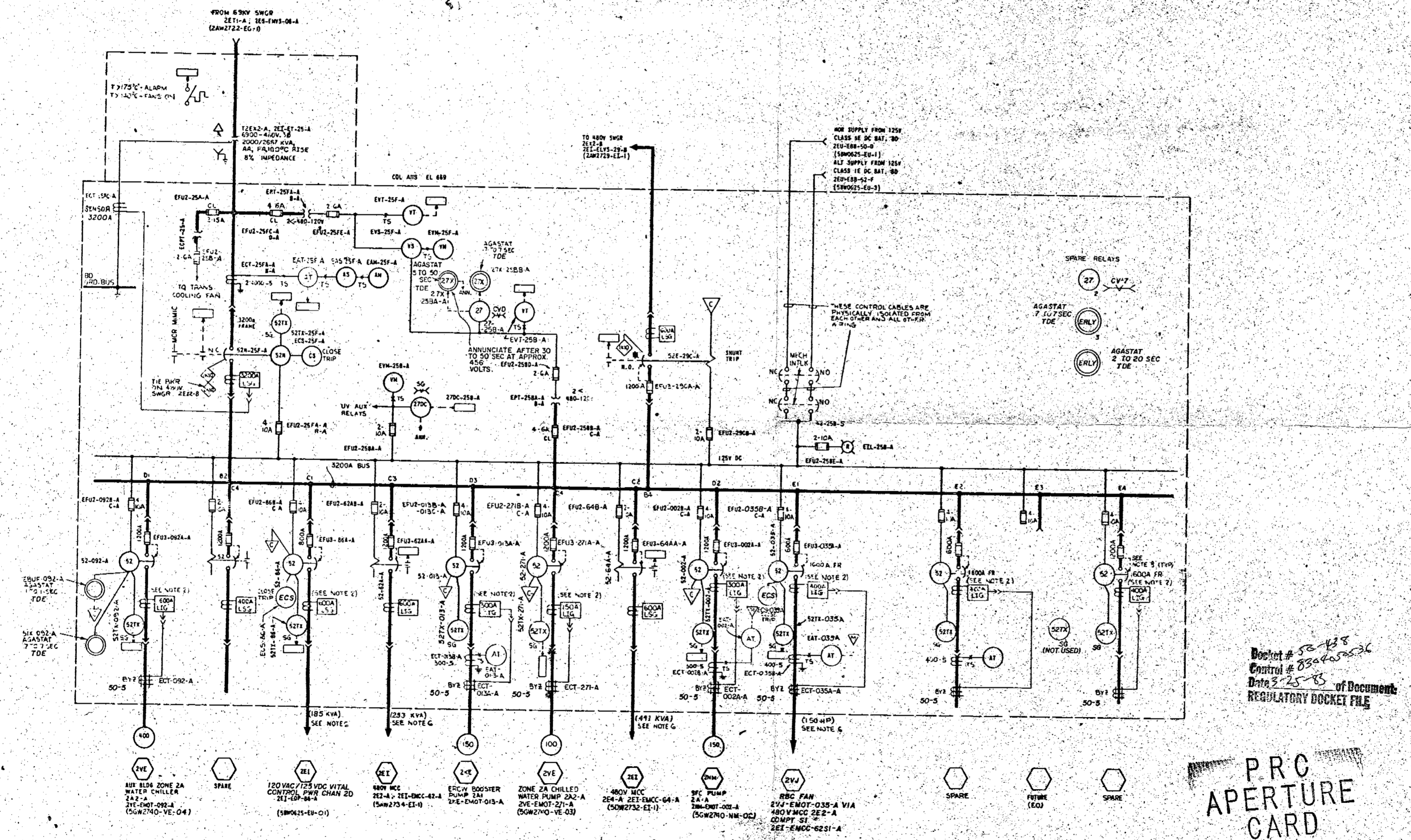
UNIT 2

SINGLE LINE DIAGRAM
480V SWITCHGEAR 2E2X-A
2E1-ELV5-25-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

45W720-3



PRC
APERTURE
CARD

6/11/83 11/12/81
REPLACES AMP FUSE WITH 8 AMP FUSE

INSPECTED AND APPROVED FOR ISSUE
R.M. Hodges
DESIGN PROJECT MANAGER