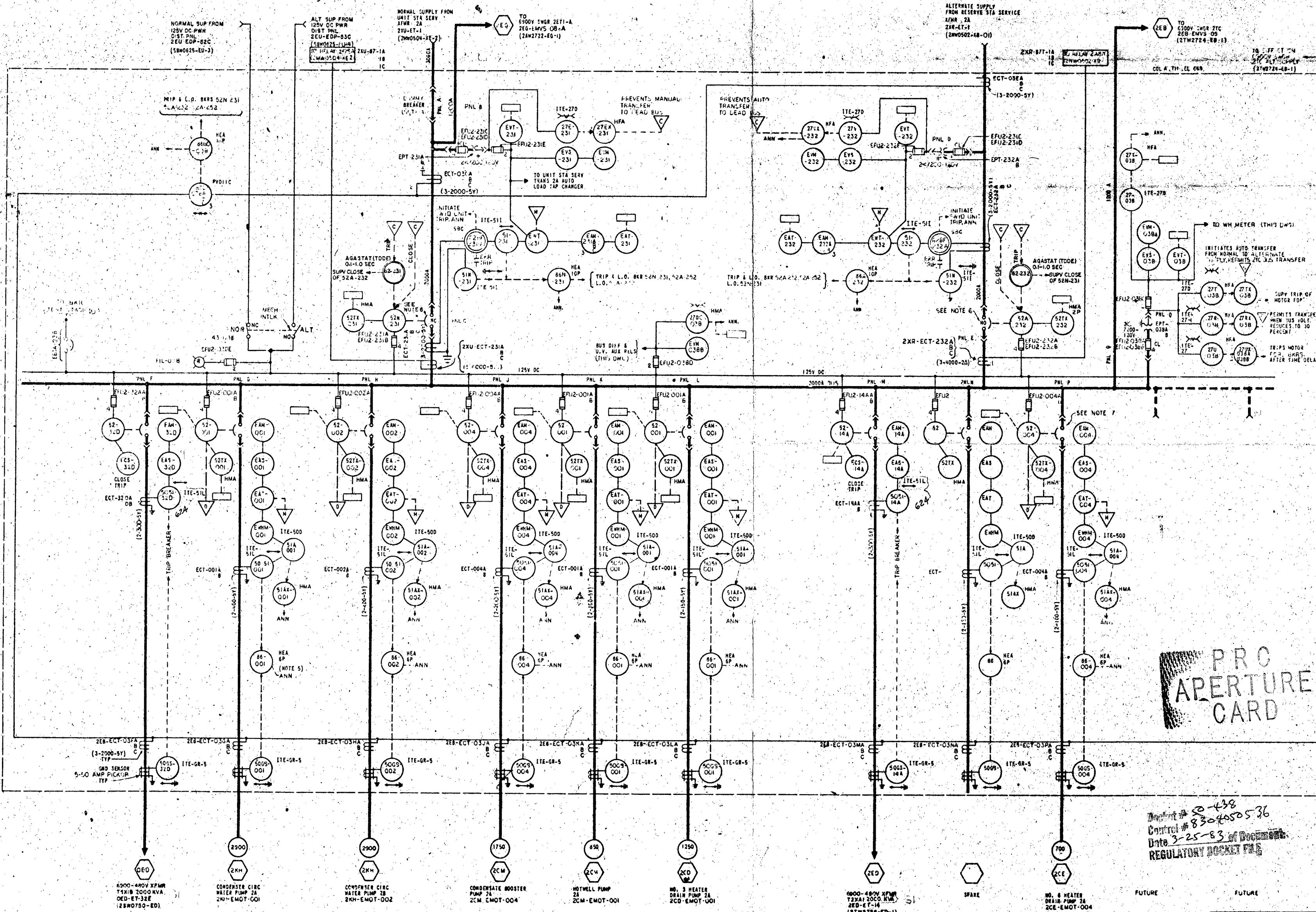


UNITS KEVED TO BUS
A7R-018A THRU C
A7R-018A THRU D
EVM-018A THRU D
EPT-013A THRU C
EPT-013A THRU D

UNITS KEVED TO PANEL
EPT-013A THRU C
EPT-013A THRU D
EPT-013A THRU C
EPT-013A THRU D
EPT-013A THRU C
EPT-013A THRU D
EPT-013A THRU C
EPT-013A THRU D



REFERENCE DRAWINGS

21W2722-EB-1	PLANT AC AUXILIARY POWER SYSTEM - SINGLE LINE
50A2740-EB	ELECTRICAL SYSTEM EB - SCHEMATIC
50A2740-RP	M/VG CRT ARRANGEMENT TYPICAL SCHEMATIC
21W2722-EB	SYSTEM EB CONTROL AND LOGIC DIAGRAM

SWITCHGEAR MANUFACTURER: I-T-E (IMPERIAL CORPORATION)
CONTRACT NUMBER: 75K5-B-583

- NOTES:
1. A MANUAL TRANSFER IS INITIATED BY A SINGLE CLOSE COMMAND TO THE SELECTED BREAKER. THE COMMAND WILL SIMULTANEOUSLY TRIP THE CLOSED SUPPLY BREAKER AND COMPLETE THE CLOSE CIRCUIT OF THE SELECTED BREAKER. IF ANY ABNORMAL CONDITION EXISTS WHICH INHIBITS THE CLOSE COMMAND, THE TRIP SIGNAL IS SUPPRESSED, AND THE BUS WILL REMAIN ON THE CLOSED SUP-BKR.
 2. AUTOMATIC TRANSFER IS INITIATED AND SUPERVISED BY UNDERVOLTAGE RELAYS. AUTOMATIC TRANSFER IS FROM NORMAL TO ALTERNATE SUPPLY ONLY. RETURN TO NORMAL SUPPLY IS MANUAL.
 3. PARALLELING OF THE NORMAL AND ALTERNATE SUPPLIES UNDER MANUAL OR AUTOMATIC TRANSFER IS INHIBITED BY INTERLOCKS.
 4. DUMMY BREAKER IS RATED AT 3000 AMP CONTINUOUS, 80,000 AMP MOMENTARY, AND 7.2KV NOMINAL.
 5. 86 RELAYS IN MOTOR FEEDER CIRCUITS TRIP AND LOCK OUT THEIR RESPECTIVE CIRCUIT BREAKERS.
 6. ALL SUPPLY BREAKERS ARE RATED AT 2000 AMPS CONTINUOUS, 500MVA INTERRUPTING, 7.2KV NOMINAL, 80,000 AMP MOMENTARY, AND 7.2KV AMPS CLOSE AND LATCH.
 7. ALL FEEDER BREAKERS ARE RATED THE SAME AS SUPPLY BREAKERS EXCEPT 1200 AMPS CONTINUOUS.
 8. THE SWITCHGEAR MAIN BUS IS RATED AT 2000 AMPS CONTINUOUS, 20,000 AMPS MOMENTARY, AND 7.2KV NOMINAL.
 9. FOR A COMPLETE DEFINITION OF THE UNIT IDENTIFICATION NUMBERS (UNID) SEE EN-DES-EP-8.01. EACH DEVICE ASSOCIATED WITH THE SWGR BUS AND THE NORMAL, ALTERNATE, OR DUMMY BREAKERS, IS PART OF THE 8300 VOLT AC AUXILIARY POWER DISTRIBUTION SYSTEM WITH SYSTEM DESIGNATION EB. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATION SHOWN ON THE DRAWING WITH 2EB. EXCEPT AS NOTED ON THE DRAWINGS, ALL FEEDER BREAKERS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYSTEM WHICH THEY SUPPLY. THE COMPLETE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DRAWING WITH THE UNIT AND SYSTEM DESIGNATOR SHOWN IN THE NEARBY SYMBOL.
 10. RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING.

- SYMBOLS
- XXX UNIT AND SYSTEM DESIGNATIONS
 - ▽ INTERFACE WITH DECONC SYSTEM
 - ▽ INTERFACE WITH REMOTE CONTROL
 - RED INDICATING LIGHT
 - INTERFACE WITH STATUS ENVIRONMENTAL ALARM MONITORING SYSTEM (SEAMS)
 - ▽ CONNECTION TO REMOTE METER
 - ANN THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS

PRO APERTURE CARD

CHANGE LOG

NO.	DATE	DESCRIPTION
1	12-23-77	ISSUED FOR CONSTRUCTION
2	1-23-78	MINOR CHANGES
3	2-27-78	MINOR REVISIONS PER SI
4	3-27-78	MINOR REVISIONS PER SI
5	4-27-78	MINOR REVISIONS PER SI
6	5-27-78	MINOR REVISIONS PER SI
7	6-27-78	MINOR REVISIONS PER SI
8	7-27-78	MINOR REVISIONS PER SI
9	8-27-78	MINOR REVISIONS PER SI
10	9-27-78	MINOR REVISIONS PER SI
11	10-27-78	MINOR REVISIONS PER SI
12	11-27-78	MINOR REVISIONS PER SI

POWERHOUSE - URBINE BUILDING
UNIT 2
SINGLE LINE DIAGRAM
6900V SWGR 2TA
2EB-EMVS-03

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

INSPECTED AND APPROVED FOR ISSUE: *[Signature]*
DESIGN PROJECT MANAGER: *[Signature]*

NO. 8 HEATER DRAIN PUMP 2A
2CE-EMOT-004

NO. 3 HEATER DRAIN PUMP 2A
2CM-EMOT-001

CONDENSATE BOOSTER PUMP 2A
2CM-EMOT-004

CONDENSER CIRC WATER PUMP 2B
2EM-EMOT-002

CONDENSER CIRC WATER PUMP 2A
2EM-EMOT-001

NO. 3 HEATER DRAIN PUMP 2A
2CE-EMOT-004

NO. 8 HEATER DRAIN PUMP 2A
2CE-EMOT-004

SPARE

FUTURE

FUTURE

45W726-1