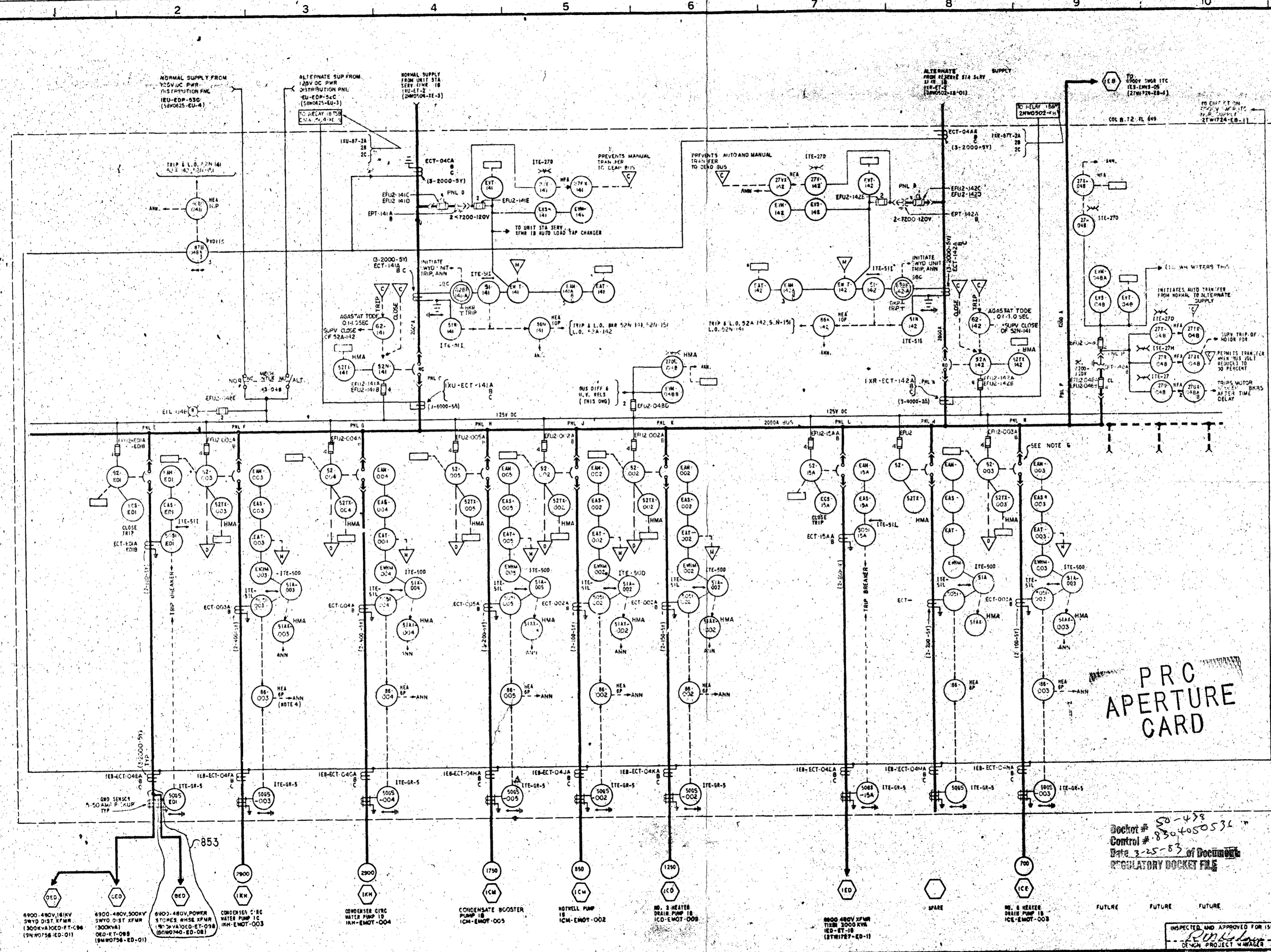


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REFERENCE DRAWINGS	
20W720-EP-1	PLANT AC AUXILIARY POWER SYSTEM - SINGLE LINE
21W740-EB	ELECTRICAL SYSTEM I.B. - SCHEMATICS
21W750-EP	6900V AC AUXILIARY POWER DISTRIBUTION SYSTEM - SCHEMATICS
21W760-EB	SYSTEM CONTROL & LOGIC DIAGRAM

SWITCHGEAR MANUFACTURER: I-T-E IMPERIAL CORPORATION
CONTRACT NUMBER: 7545-85580

- NOTES:
- 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 SUPPLY BREAKER.
 - AUTOMATIC TRANSFER IS INITIATED AND SUPERVISED BY UNDERVOLTAGE RELAYS. AUTOMATIC TRANSFER IS FROM NORMAL TO ALTERNATE SUPPLY ONLY. RETURN TO NORMAL SUPPLY IS MANUAL.
 - PARALLELING OF THE NORMAL AND ALTERNATE SUPPLIES UNDER MANUAL OR AUTOMATIC TRANSFER IS INHIBITED BY INTERLOCKS.
 - ALL RELAYS IN MOTOR FEEDER CIRCUITS TRIP AND LOCK OUT THEIR RESPECTIVE CIRCUIT BREAKERS.
 - ALL SUPPLY BREAKERS ARE RATED AT 2000 AMPERES (500/1000 500 MVA) INTERRUPTING 7.2KV NOMINAL, 90,000 AMPERES MOMENTARY AND 27,000 AMPERES CLOSE AND LATCH.
 - ALL FEEDER BREAKERS ARE RATED THE SAME AS SUPPLY BREAKERS EXCEPT 1200 AMPERES CONTINUOUS.
 - THE SWITCHGEAR MAIN BUS IS RATED AT 2000 AMPERES CONTINUOUS, 90,000 AMPERES MOMENTARY AND 27KV NOMINAL.
 - FOR A COMPLETE DEFINITION OF THE UNIQUE IDENTIFICATION NUMBERS (UNID) SEE THE ENGINEERING DRAWINGS ASSOCIATED WITH THE SWGR BUS AND THE NORMAL OR ALTERNATE SUPPLY CIRCUIT BREAKERS. IS PART OF THE 6900 VOLT AC AUXILIARY POWER DISTRIBUTION SYSTEM WITH SYSTEM DESIGNATION EB. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATION SHOWN ON THE DRAWING WITH THE EFT OR EPT AS APPROPRIATE. 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 DESIGNATION IN THE HEAVY OVAL SYMBOL.
 - RELAYS SHALL BE THE TYPE SHOWN ON THIS DRAWING.

- SYMBOLS
- XXX UNIT-B SYSTEM DESIGNATION
 - ▽ INTERFACE WITH DECATIC SYSTEM
 - ▽ INTERFACE FOR REMOTE CONTROL
 - INTERFACE WITH STATUS ENVIRONMENTAL ALARM MONITORING SYSTEM (SEAMS)
 - RED INDICATING LIGHT
 - ▽ CONNECTION TO REMOTE METERING
 - ANN THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS

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PRC APERTURE CARD

Docket # 850-428
Control # 850-40534
Date 3-25-83 of Document
REGULATORY DOCKET FILE

POWERHOUSE-TURBINE BUILDING
UNIT 1

SINGLE LINE DIAGRAM
6900V SWGR ITB
IEB-EMVS-04

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED: *B. W. Maxwell*
REC. AMENDED: *J. E. Schumann*
APPROVED: *J. W. Chandler*

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

KNOXVILLE 2-19-78 88 1 21W723-EB-1
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