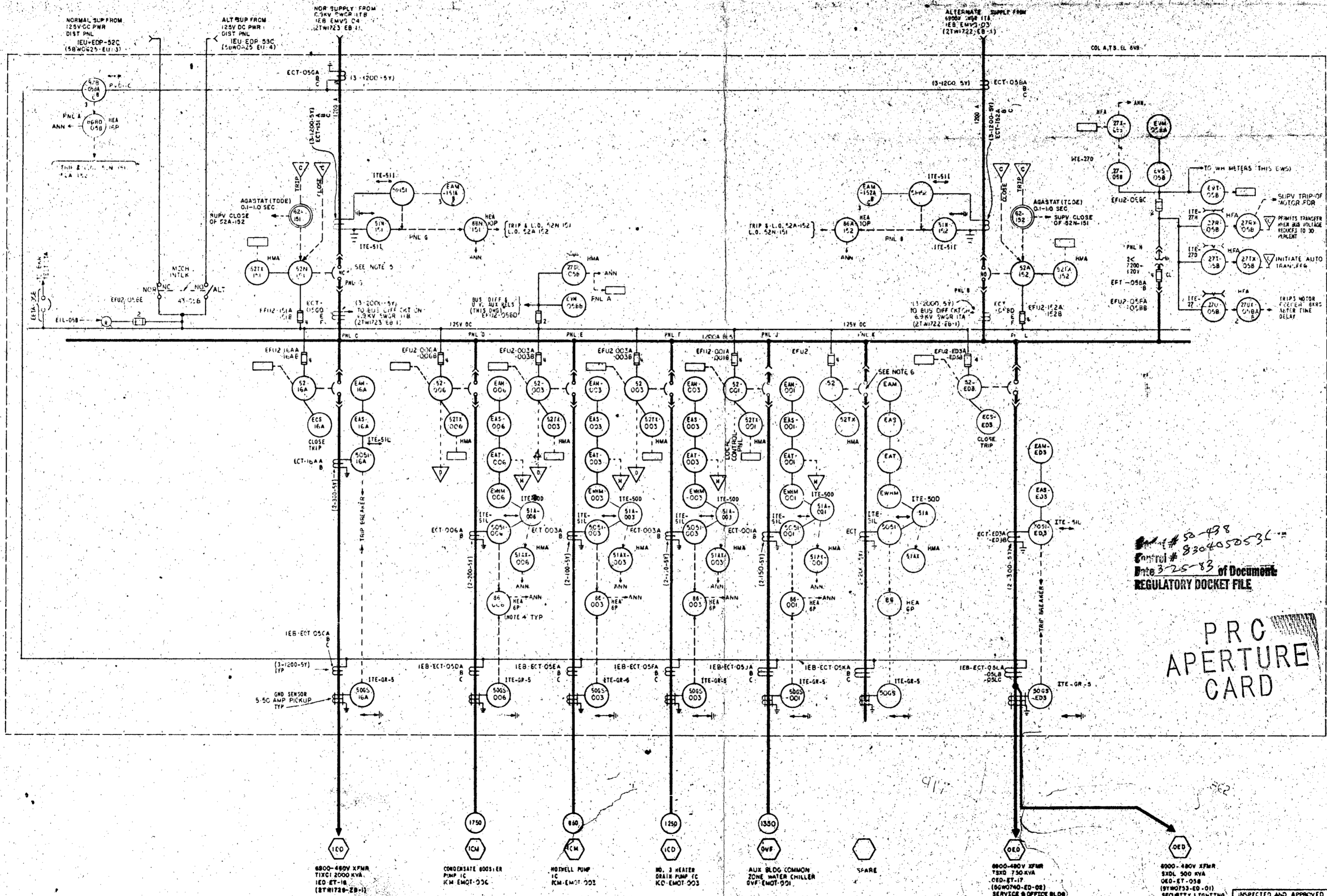


UNID'S KEYS TO BUS  
 B7B-05BA THRU C  
 27UX-05BA THRU B  
 EVM-05BA THRU B  
 EFU2-05BA THRU E  
 EPT-05BA THRU B

UNID'S KEYS TO PANEL  
 ECT-05BA THRU C  
 ECT-05CA THRU C  
 ECT-05DA THRU C  
 ECT-05EA THRU C  
 ECT-05FA THRU C  
 ECT-05GA THRU C  
 ECT-05JA THRU C  
 ECT-05KA THRU C  
 ECT-05LA THRU C  
 ECT-05MA THRU C  
 ECT-05NA THRU C  
 ECT-05PA THRU C  
 ECT-05QA THRU C  
 ECT-05RA THRU C  
 ECT-05SA THRU C  
 ECT-05TA THRU C  
 ECT-05UA THRU C  
 ECT-05VA THRU C  
 ECT-05WA THRU C  
 ECT-05XA THRU C  
 ECT-05YA THRU C  
 ECT-05ZA THRU C



REFERENCE DRAWINGS	
25W220-PP-1	PLANT AC AUXILIARY POWER SYSTEM - SINGLE LINE
27W2000-EB	SYSTEM EB CONTROL LOGIC DIAGRAM
20W1740-EB	ELECTRICAL SYSTEM EB SCHEMATICS
20W2100-PP	AVG CB ARRANGEMENT TYPICAL SCHEMATICS
SWITCHGEAR MANUFACTURER: I-TE IMPERIAL CORPORATION	
CONTRACT NUMBER: 15W-5-85-102	

- NOTES:
- A MANUAL TRANSFER IS INITIATED BY A SINGLE CLOSE COMMAND TO THE SELECTED BREAKER. THE COMMAND WILL SIMULTANEOUSLY TRIP THE CLOSE 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.
  - AN AUTOMATIC TRANSFER IS INITIATED AND SUPERVISED BY UNDERVOLTAGE RELAYS. AUTOMATIC TRANSFER IS PROHIBITED IF THE NORMAL SUPPLY OR FROM ALTERNATE SUPPLY IS AVAILABLE. TRANSFER IS PROHIBITED IF THE NORMAL SUPPLY IS UNAVAILABLE, TRANSFER IS PROHIBITED IF THE ALTERNATE SUPPLY OR FROM NORMAL IS AVAILABLE SUPPLY.
  - PARALLELING OF THE NORMAL AND ALTERNATE SUPPLIES UNDER MANUAL OR AUTOMATIC TRANSFER IS INHIBITED BY INTERLOCKS.
  - RELAYS IN MAJOR FEEDER CIRCUITS TRIP AND LOCK OUT THEIR RESPECTIVE CIRCUIT BREAKERS.
  - ALL SUPPLY BREAKERS ARE RATED AT 1,000 AMPS CONTINUOUS, 100MYA INTERRUPTING, 7,2KV NOMINAL, 80,000 AMP MOMENTARY, AND 77,000 AMP'S CLOSE AND LATCH.
  - ALL FEEDER BREAKERS ARE RATED THE SAME AS SUPPLY BREAKERS.
  - THE SWITCHGEAR MAIN BUS IS RATED AT 1,000 AMPS CONTINUOUS, 90,000 AMP'S MOMENTARY, AND 7,2KV NOMINAL.
  - FOR A COMPLETE DEFINITION OF THE UNIQUE IDENTIFICATION NUMBERS (UNID) SEE EN-05B-EP-0-01. EACH DEVICE ASSOCIATED WITH A SWITCH, BUS, NORMAL SUPPLY OR ALTERNATE SUPPLY CHECK BREAKER IS PART OF THE 6900 VOLT AC AUXILIARY POWER DISTRIBUTION SYSTEM WITH SYSTEM DESIGNATION EB. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THIS DRAWING WITH IEB, EXCEPT AS NOTED ON THIS DRAWING. 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 THIS DRAWING WITH THE UNIT AND SYSTEM DESIGNATOR SHOWN IN THE HEADING SYMBOL.
  - RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING.

- SYMBOLS:
- XXX UNIT AND SYSTEM DESIGNATION
  - INTEGRATE WITH DEONIC 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

52-438  
 8304050531  
 Date 3-25-83 of Document  
 REGULATORY DOCKET FILE

PRC  
 APERTURE  
 CARD

5	317,862	11-19-76	ADD ASSOCIATED EPT TO PNL L	ADD PARALLEL SUPPLY TO XPMR
4	629,51	11-19-76	CHANGED XPMR DC PROT MINOR CHANGES	
3	1,446,31	11-19-76	IMPLEMENTED ANTICIPATORY RELAY SCHEME PER CON 341 REVISED NOTE 2 PER EGM 466 MINOR REVISIONS PER SI	
2	102,51	11-19-76	VARIOUS MINOR REV PER SI VARIOUS	
1	51,54	11-19-76	ADD AMPERES TO THE FULL SUPPLY ADD IN CON ZONE WATER CHILLER AND ZEN	

POWERHOUSE-TURBINE BUILDING		
UNIT 1		
SINGLE LINE DIAGRAM		
6900V SWGR ITC		
IEB-EMVS-05		
BELLEFONTE NUCLEAR PLANT		
TENNESSEE VALLEY AUTHORITY		
DIVISION OF ENGINEERING DESIGN		
SUBMITTED	RECOMMENDED	APPROVED
DESIGN PROJECT MANAGER		
KNOXVILLE	2-7-78	88
45W725-3		27W1724-EB-1
DESIGNED BY		25