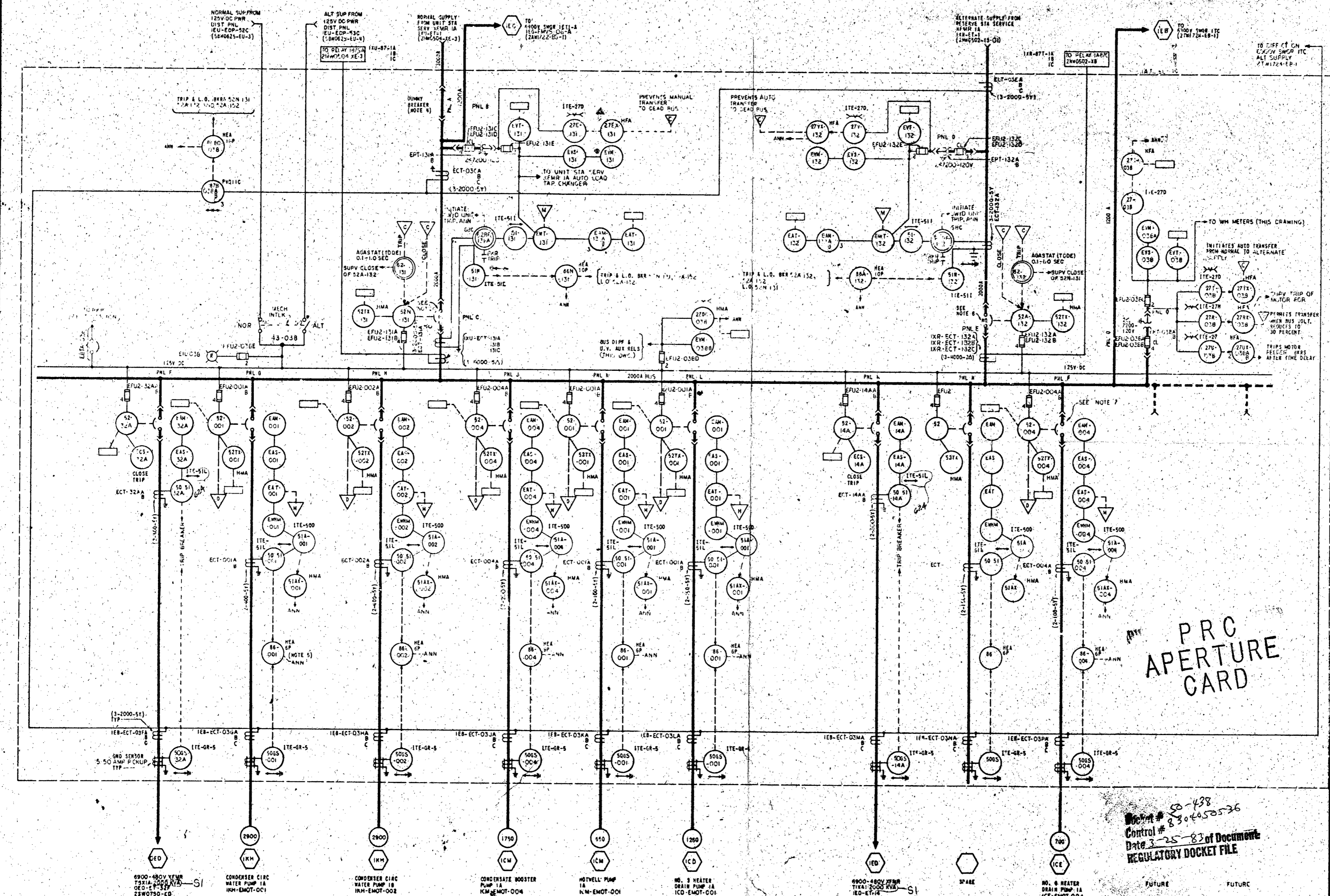


UNITS KEYS TO BUS
 B1B-018A THRU C
 B7UX-038A THRU B
 E1A-038A THRU B
 E1UA-038A THRU C
 E2T-038A THRU B

UNITS KEYS TO PANEL
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C
 ECT-038A THRU C

REFERENCE DRAWINGS	
210720-RP-01	PLANT AC AUXILIARY POWER SYSTEM - SINGLE LINE
50W140-EB	ELECTRICAL SYSTEM PH SCHEMATICS
210900-EB	SYSTEM EB CONTROL AND LOGIC DIAGRAM



- 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 SUPPLY 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 INITIATED BY INTERLOCKS.
 4. DUMMY BREAKER IS RATED AT 3000 AMP CONTINUOUS, 60,000 AMP MOMENTARY AND 7.2KV NOMINAL.
 5. 30 RELAYS IN MOTOR FEEDER CIRCUITS TRIP AND LOCK OUT THEIR RESPECTIVE CIRCUIT BREAKERS.
 6. ALL SUPPLY BREAKERS ARE RATED AT 2000 AMPS CONTINUOUS, 5000VA INTERRUPTING, 7.2KV NOMINAL, 60,000 AMPS MOMENTARY, AND 11,000 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 AMP CONTINUOUS, 60,000 AMPS MOMENTARY, AND 7.2KV NOMINAL.
 9. FOR A COMPLETE DEFINITION OF THE UNIQUE IDENTIFICATION NUMBERS (UNIN) SEE ENCL 15 P. 01. EACH SERVICE ASSOCIATED WITH THE SWGR BUS AND THE NORMAL, ALTERNATE, OR DUMMY BREAKERS, IS PART OF THE 6900 VOLT AC AUXILIARY POWER DISTRIBUTION SYSTEM WITH SYSTEM DESIGNATION EB. THE DEVICE UNITS IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DRAWING WITH IEB, EXCEPT AS NOTED ON THE DRAWING. ALL FEEDER BREAKERS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYSTEM WHICH THEY SUPPLY. THE COMPLETE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DRAWING WITH THE UNIT AND SYSTEM DESIGNATION SHOWN IN THE HEXAGON SYMBOL.
 10. RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING.

- SYMBOLS:
- XXX UNIT AND SYSTEM DESIGNATIONS
 - △ INTERFACE WITH DECONT SYSTEM
 - ◊ INTERFACE FOR REMOTE CONTROL
 - ⊙ RED INDICATING LIGHT
 - ◻ INTERFACE WITH STATUS ENVIRONMENTAL/ARM MONITORING SYSTEM (SEAMS)
 - ▽ CONNECTION TO REMOTE METER
 - ANN THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS

PRC
 APERTURE
 CARD

NO.	DATE	BY	CHKD	APPD	REVISION
4	02/21/81	J. J. ...			CHANGED XPMR OC PROT. MINOR CHANGES.
3	3/4/81	J. J. ...			IMPLEMENTED ANTICIPATORY RELAY SCHEME PER ENCL 14 MINOR REVISIONS PER 31.
2	02/07/81	J. J. ...			IMPLEMENTED 51 RELAYS PER ENCL 14. 120V AC CONT PWR TO AUTO LOAD TAP CHANGER PER ENCL 14. 120V AC CONT PWR TO AUTO LOAD TAP CHANGER PER ENCL 14. 120V AC CONT PWR TO AUTO LOAD TAP CHANGER PER ENCL 14.
1	01/14/81	J. J. ...			PER ENCL 14 INC. SEAMS. PER ENCL 14 INC. SEAMS. PER ENCL 14 INC. SEAMS.

POWERHOUSE-TURBINE BUILDING
 UNIT 1

SINGLE LINE DIAGRAM
 6900V SWGR ITA
 IEB-EMVS-03

BELLEVILLE NUCLEAR PLANT
 TENNESSEE VALLEY AUTHORITY
 DIVISION OF ENGINEERING DESIGN

SUBMITTED: *[Signature]* RECLAIMED TO: *[Signature]* APPROVED: *[Signature]*

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

KNOXVILLE 2-17-81 88 2TW1722-EB-1
 45W725-1

NO.	DATE	BY	CHKD	APPD	REVISION
ME					
CE					
AE					
AB					
CD					
DD					
EE					
FF					
GG					
HH					
II					
JJ					
KK					
LL					