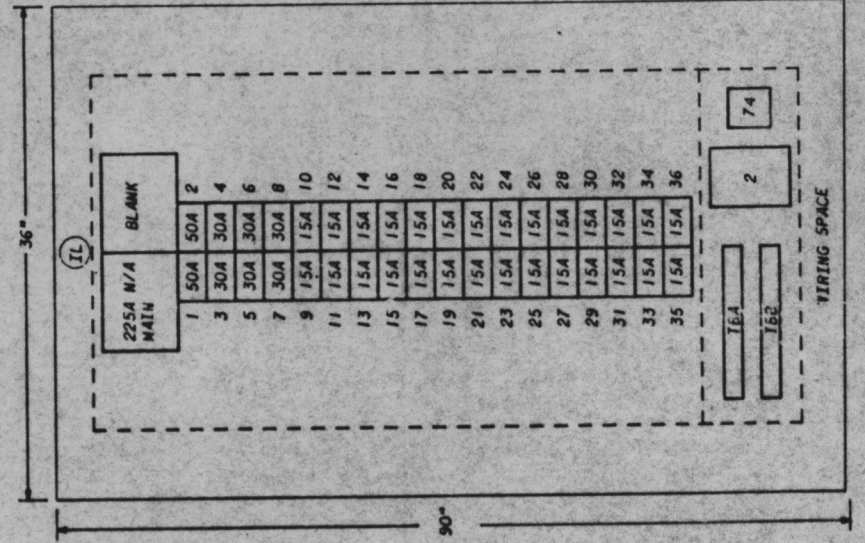


- NOTES
- 120V AC CLASS IE AUXILIARY POWER DISTRIBUTION SYSTEM EK IS A SINGLE PHASE, 60 HZ, TWO WIRE, SINGLE-POINT GROUNDING SYSTEM.
  - 120V AC CLASS IE AUX POWER DISTRIBUTION PANELS ARE PROVIDED ON TVA CONTRACT NO. 78K4-823705.
  - PANEL DESIGNED FOR 225 AMP SERVICE, 120V AC, 20-10, 60HZ, WESTINGHOUSE TYPE COP, OR EQUAL.
  - MAIN DISCONNECT: 225 AMP-FRAME, NON-AUTOMATIC BREAKER, WESTINGHOUSE TYPE JB, OR EQUAL, WITH SHORT-TIME CURRENT RATINGS AT 600V AC AS FOLLOWS:  
 4000 AMPS ..... 1.0 SECOND  
 5000 AMPS ..... 1.66 SECONDS  
 $2.7 \times 10^6$  ..... 0.0093 SECONDS, OR LESS
  - BRANCH CIRCUIT BREAKERS: 100 AMP-FRAME THERMAL MAGNETIC TRIP, TWO POLE WITH TRIP ALARM CONTACTS WHICH CLOSE ON BREAKER TRIP. INTERRUPTING CAPACITY OF 10,000 RMS SYM AMPS AT 240V AC, WESTINGHOUSE TYPE EB, OR EQUAL.
  - TIME DELAY RELAY: 120V AC COIL, TIMING RANGE OF 0.5-5 SECONDS, DELAY ON DROPOUT, DPDT CONTACTS, AGASTAT P022AB, OR EQUAL.
  - ALARM RELAY: WESTINGHOUSE TYPE ARB, CAT. NO. ARB4-A, OR EQUAL, 4 POLE, 2NO/2NC CONTACTS, 120V AC COIL.
  - INSTRUMENT FUSES: 10A, 250V AC, NON-DETERIORATING, BUSS TYPE KWN, OR EQUAL, WITH TWO-POLE FUSE BLOCK.
  - PANELBOARD WIRING: 16 AWG, SINGLE CONDUCTOR, 600V, TEPEL INSULATED, WIRING TO FUSES TO BE AS SHORT AS POSSIBLE, NON-TWISTED AND SEPARATED FROM OTHER WIRING.
  - TERMINAL BLOCKS: 30 PT. 300V CHANNEL MOUNT, #16 AWG WIRING, SQUARE D TYPE BB, OR EQUAL.
  - PANEL ENERGIZED INDICATOR IS A TRANSFORMER TYPE LIGHT UNIT WITH AN AMBER LENS, CUTLER-HAMMER CATALOG NO. 102SOT101C9, OR EQUAL.
  - PANEL DIMENSIONS: DIMENSIONS SHOWN IN PLAN VIEW ARE MAXIMUM ALLOWABLE. MOUNTING OF TERMINAL BLOCKS, FUSES AND RELAYS SHALL PERMIT A WIRING SPACE AT THE BOTTOM OF THE PANEL WITH A CROSS-SECTIONAL AREA NOT LESS THAN 36 SQUARE-INCHES.

REFERENCE DRAWING:  
 SBW0625-EJ-01 ..... SINGLE-LINE DIAGRAM

PRC APERTURE CARD  
 50-438  
 8304050536  
 3-25-83  
 REGULATORY DOCKET FILE



PLAN VIEW  
 120V AC CLASS IE AUXILIARY POWER  
 DISTRIBUTION PANEL 2EK-EDP-76-A  
 REFER TO NOTES 1-12  
 NOT TO SCALE

3	SI, 1027	6-7-82	2-8	CRC/S/B	PCC/...	...	...	...	...	...
REVISED LOADS	2	1139	3-13-81	...	...	...	...	...	...	...
REVISED LOADS	1	926	5-10-80	...	...	...	...	...	...	...
REVISION	NO	ECR NO	DATE	DESCRIPTION	BY	CHKD	APPD	...	...	...
DRWN	C. G. PETERSON	...	...	...	...	...	...	...	...	...
CHKD	K. G. FALKNER	...	...	...	...	...	...	...	...	...
APPD	D. E. HEARN	...	...	...	...	...	...	...	...	...
CHKD	D. E. COLTRESS	...	...	...	...	...	...	...	...	...
SCALE:	N/TS EXCEPT AS NOTED									

GENERAL UNIT 2  
 SCHEMATIC DIAGRAM  
 125V CLASS IE DC POWER  
 DISTRIBUTION SYSTEM  
 BELLEFONTE NUCLEAR PLANT  
 TENNESSEE VALLEY AUTHORITY  
 DIVISION OF ENGINEERING DESIGN

INSPECTED AND APPROVED FOR ISSUE  
 M.W. STEVENSON  
 J.L. SPRINGER  
 R.M. HODGES  
 KNOXVILLE 9-12-77 88 E SGM2640-EU-10 R3