



- NOTES
- 120V AC CLASS IE AUXILIARY POWER DISTRIBUTION SYSTEM EX IS A SINGLE PHASE, 60 HZ, TWO WIRE, SINGLE-POINT GROUNDING SYSTEM.
 - 120V AC CLASS IE AUXILIARY POWER DISTRIBUTION PANELS ARE PROVIDED ON TVA CONTRACT NO. 79K4-823705.
 - PANEL DESIGNED FOR 225 AMP SERVICE, 120V AC, 2W-1P, 60 HZ, WESTINGHOUSE TYPE CDP, 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 0.166 SECONDS
 12T-3 x 10³ 0.0083 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 T022AB, OR EQUAL.
 - ALARM RELAY: WESTINGHOUSE TYPE ARB, CAT. NO. ARB400A, OR EQUAL; 4 POLE, 2NO/2NC CONTACTS, 120V AC COIL.
 - INSTRUMENT FUSES: 10A, 250V AC, NON-DETERIORATING, BUSS TYPE KMN, OR EQUAL, WITH TWO-POLE FUSE BLOCK.
 - PANELBOARD WIRING: 16 AWG, SINGLE CONDUCTOR, 600V, TEFLON INSULATED, WIRING TO FUSES TO BE AS SHORT AS POSSIBLE, NON-TWISTED AND SEPARATED FROM OTHER WIRING.
 - TERMINAL BLOCKS: 30 PT, 300V CHANNEL MOUNT, FOR #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. 10250T181C3, 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 CIRCUMFERENTIAL AREA NOT LESS THAN 36 SQUARE-INCHES.

REFERENCE DRAWINGS
 SBW0625-EJ-02 SINGLE LINE DIAGRAM

PRC APERTURE CARD
 Doc # 50-438
 Cont # 8304050536
 Date 1-25-83 of Document
 REGULATORY DOCKET FILE

REV	NO	DATE	BY	CHKD	APPV	REVISIONS
1	1027,1337,51	6-7-82	...	...	...	REVISED LOADS, CORRECTED UNIT NUMBERS.
2	1139	2-13-81	...	...	...	REVISED LOADS.
3	826	1-5-80	...	...	...	REDRAWN, ADDED LOADS, CABLE NUMBERS, MONITORING POINT, Q.

SCALE: NTS 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

SUBMITTED: M.W. STEVENSON
 RECOMMENDED: J.L. SPRINGER
 APPROVED: R.M. HODGES
 KNOXVILLE 9-12-77 88 E 5GW2640-EU-11 R3

PLAN VIEW
 120V AC CLASS IE AUXILIARY POWER DISTRIBUTION PANEL 2EK-EDP-77-B
 REFER TO NOTES 2-12
 NOT TO SCALE