NOTES:

1. 120VAC PREFERRED POWER DISTRIBUTION SYSTEM BY IS A SINGLE PHASE, 60HZ, TWO WIRE, SINGLE-POINT-GROUNDED SYSTEM.
2. 120VAC PREFERRED POWER DISTRIBUTION PANELS ARE PROVIDED ON TVA CONTRACT 72K5-82470.
3. ALL AUTOMATIC CIRCUIT BREAKERS ARE PROVIDED TRIP ALARM CONTACTS WHICH CLOSE WHEN BREAKER OPENS DUE TO SHORT CIRCUIT OR OVERLOAD. ALL ALARM CONTACTS ARE INDIVIDUALLY WIRED TO ANNUNCIATION TERMINAL BLOCKS AND ARE CONNECTED IN PARALLEL FOR COMMON ALARM.
4. ELECTRONIC TYPES OF OVERCURRENT TRIP ARE NOT USED ON SHORT CIRCUIT CAPACITIES OF 10,000 RMS SYM AMPS AT 120VAC. WESTINGHOUSE TYPE MTED.
5. 100 AMP FRAME AUTOMATIC MOLDED-CASE CIRCUIT BREAKERS HAVE INTERRUPTING CAPACITY OF 10,000 RMS SYM AMPS AT 120VAC. WESTINGHOUSE TYPE EHD.
6. TIME DELAY RELAY,120VAC COIL, TIMING RANGE OF 14-15 SEC. DELAY ON DROPOUT,DPDT CONTACTS,COMPLETE WITH ENCLOSURE. AGASTAT 7022 ACOZ
7. TERMINAL BLOCKS-SECTIONAL, 600V, NYLON, STRAP SCREW TERMINAL, DOVETAIL BASE MOUNTED CHANNEL, BUCHANAN CAT. NO. 0721.
8. ANNUNCIATION AND INSTRUMENT WIRING- 16 AWG, SINGLE CONDUCTOR, 600V, TEFLON COATED.
9. INSTRUMENT FUSES ARE BUSSMAN TYPE MLE.
10. LOADING SHOWN FOR UNIT 1; UNIT 2 IS SIMILAR, EXCEPT AS NOTED,OR SHOWN IN PARENTHESIS.
11. SPARE RELAY IEY-EBUP-2131 IS WESTINGHOUSE TYPE ARD CATALOGUE NO. ARD40BA, 3-POLE, 2 NO AND 2 NC CONTACTS, 120VAC COIL, CONTACT RATING 1.1 AMPS AT 120VAC.
12. WIRING BETWEEN BUS BARS AND FUSE BLOCKS IS AS SHORT AS PHYSICALLY POSSIBLE, NON-TWISTED, AND SEPARATED FROM OTHER WIRING AND GROUND.
13. 150 AMP FRAME NON-AUTOMATIC MOLDED CASE CIRCUIT BREAKERS HAVE MECHANICAL INTERLOCK FOR BREAK-BEFORE-MAKE TRANSFER, WESTINGHOUSE TYPE FD WITH SLIDING BAR INTERLOCK. IMPORTANT: MECHANICAL INTERLOCK TRANSFER ACTION MUST BE BREAK-BEFORE-MAKE; INDETERMINATE ACTION IS NOT ACCEPTABLE. NON-AUTOMATIC BREAKERS MUST HAVE SHORT-TIME WITHSTAND RATINGS AT 600VAC AS FOLLOWS:

7,700 AMPS	0.0166 SECONDS.
2,500 AMPS	0.166 SECONDS.
2,000 AMPS	1.0 SECONDS.

REFERENCE DRAWINGS

SBN1625-EP-02 } ------ SINGLE LINES
SBN2625-EP-08 }

DISTRIBUTION PANEL 1EY-ECP-21
SGW0640-EP-09
120VAC PREFERRED UNIT CONTROL ROOM POWER
LOCATED ON EL 331-0 BUS SEE DETAIL A, SGW0640-EP-09

ANNUNCIATION DETAIL

Docket # 50-438
Control # 8304050536
Date 3-25-83
of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

3	S1	7-24-82	REVISED PER FCR E-2457. CORRECTED DRAWING NO.		
2	1140,S11,648	5-5-81	REVISED LOADS MISC CHANGES.		
1	S1	7-31-79	REVISED LOADS,CABLES, NOTES, AND ANNUNCIATION POINTS.		

REV	SCR NO.	DATE
DRAWN	W. Faulkner	
DESIGN	R. Williams	
CHECK	A. Fitzgerald	
SUPV	M. Lee Simmons	

SCALE: EXCEPT AS NOTED

GENERAL
UNITS 1 & 2

SCHEMATIC DIAGRAM
120VAC PREFERRED
UNIT CONTROL ROOM
POWER DISTRIBUTION PANELS

COMPANION DRAWINGS:
SGW0640-EP-9, 11---SCHEMATICS

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
M. D. Smith		

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE 12-28-82 | 88 | E | SGW0640-EP-10 R8