REFERENCE DRAWINGS	
DWG. NO.	TITLE
2SWO723-BP-1	PLANT A.C. ELM POWER SYSTEM ONE LINE
2-WO900-[illegible]	CONTROL AND LOGIC DIAGRAMS
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

E. EQPT. LIST NO.

NOTES:

1. 480V SWGR PROVIDED ON [illegible]
2. ALL CK. BKRS ARE 3-POLE, 800A FR WITH DEEP MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED.
   - 600A FR BKRS HAVE 100,000A RMS SYM INTERRUPTING RATING AT 480 V.
   - 1600A FR BKRS HAVE 65,000A RMS SYM INTERRUPTING RATING AT 480V.
   - 3,000A FR BKRS HAVE 85,000A RMS SYM INTERRUPTING RATING AT 480V.
3. BUS TO BE [illegible] NEUTRAL. SEE LOADS THAT ARE 3P, 4 WIRE SYS AS INDICATED.
4. RELAYS SHALL BE OF THE TYPES SHOWN ON THIS DRAWING OR THEIR APPROVED EQUAL.
5. FAULT GROUND FAULT PROTECTION RELAY SYSTEM C [illegible] SENSOR CT ENCIRCLING ALL PHASE CONDUCTORS, TO BE PROTECTED, [illegible] NEUTRAL IF USED.
   DELAY PICK-UP INITIATES TRIPPING OF THE CIRCUIT PROTECTIVE DEVICE.
   EQP FOR MAIN, TIE AND FEEDER CIRCUITS SHALL BE ADJUSTABLE FROM 2,000 TO 4,000 AMPERES. TIME ADJUSTMENT SHALL BE PROVIDED FROM INSTANTANEOUS TO .375 SECONDS.
   [illegible] OF INDIVIDUAL [illegible] NUMBERS SHALL BE FIXED AT A [illegible] SETTING AND OF FINAL MOUNTED SENSORS FOR COORDINATED TRIPPING [illegible] FEEDER AND OF FINAL MOUNTED SENSORS FOR COORDINATED TRIPPING OF TIE AND MAIN BREAKERS. INTERLOCK SHALL BE ACCOMPLISHED WITHOUT ADDITIONAL COMPONENTS OTHER THAN GROUND SENSOR RELAYS.
6. THE FOLLOWING UNIQUE IDENTIFICATION SCHEME SHALL BE USED AS IDENTIFY EQPT AND EQPT.

XXX - XXXX - XXXX - X

[illegible] INFORMATION CATEGORIZATION [illegible] APPLICABLE
[illegible] OF EQUIPMENT IDENTIFIER
[illegible] OF EQUIPMENT FUNCTION DESIGNATION
[illegible] OF SYSTEM DESIGNATION
[illegible] OF EQUIPMENT SEQUENCE NUMBER

EACH DEVICE ASSOCIATED WITH A 480 VOLT UNIT SUBSTATION BUS IS PART OF THE BUS SYSTEM AND HAS A COMMON DESIGNATION AS SHOWN ON THE DRAWING.
ALL THREE BUSES WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYSTEM WHICH THEY SUPPLY.

7. FOR CABLE SIZES, SEE [illegible]

SYMBOLS

- XXX — SOLID STATE TRIP UNIT WITH SENSOR RATING SHOWN
- LSG — LONG TIME - SHORT TIME (RELAY)
- LSG — LONG TIME - SHORT TIME DELAY (ELECTRIC TRIP)
- (MAIN) — INTERLOCKING SYSTEM ENVIRONMENTAL DESIGN CRITERIA (DESIGN)
- (XXX) — UNIT AND SYSTEM DESIGNATION (SEE NOTE 6)

REV	DESCRIPTION
5	1133
	ECN-1133 CHG 480V 30 PT 3 AMP FUSES TO 6 AMP
3	51 TEA
	ECN-51 ADD MOTOR TEST BKR FEED, MINOR CHGS.
4	51
	ECN-51 MINOR CHGS
2	
	ECN-424 WERR AS BUILT, BALANCE BUS LOAD, ECN-51 & MINOR CHANGES
1	TEA
	ECN-IN, REVISED TO SHOW LOAD AND EQUIPMENT CHANGES WHICH HAVE OCCURRED IN THE PAST YEAR. REVISED TO SHOW LATEST UNID NUMBER CHANGES FOR CLARITY. THESE CHANGES WILL NOT BE CYCLED
1	12-80
	CHG 480V DISTR SYS FROM DELTA TO GND WYE AND ADDED 3RD FAULT PROT PER ECN 16 REV 1 ACT PER ECN 20

REV NO.	ECN NO.	DATE	ORIGN	DRWN	CHKD	SUPV	ENGR	UNIT	SUBSTRCTR	APPR

DSGN V.B. SOUNDS
DRWN P. SPEAKES
CHKD S. SCHEIER
SUPV [illegible]

INSP
ENGINEER

SERVICE BUILDING
UNIT 1 & 2

SINGLE LINE DIAGRAM
480V SWITCHGEAR SX1
OED-ELVS-32

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
[illegible]	[illegible]	[illegible]

KNOXVILLE | 2-9-74 | 88 | 1 | 2SWO750-ED-1 | R6
1SW750-1
RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE
[illegible]
DESIGN PROJECT MANAGER

PIRC APERTURE CARD
Docket # 50-438
Control # 8304070536
Date 3-25-83 of Document
REGULATORY DOCKET FILE

NEUTRAL GROUNDING SCHEME