REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
1-45W700-EP-1	480V AC AUXILIARY POWER SYSTEM SINGLE LINE
1-45W740-ED-6	480V SWGR EXCI SYSTEM SCHEMATIC

NOTES:

1. 480V SWGR PROVIDED ON CONTRACT NO. 76K-85526
2. ALL CKT BKRS ARE 3-POLE. 800A FR WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE. EXCEPT AS NOTED.
   800A FR BKRS HAVE 200,000A RMS SYM INTERRUPTING RATING AT 480V.
   1600A FR BKRS HAVE 50,000A RMS SYM INTERRUPTING RATING AT 480V.
   1200A FR BKRS HAVE 65,000A RMS SYM INTERRUPTING RATING AT 480V.
   ALL REMOTELY OPERATED BKRS ARE EQUIPPED WITH AN ELECTRICAL ATTACHMENT ACTUATED WHEN BKR TRIPPED AUTO. BY THE INSPECTOR.
3. BUS TO BE 3Ø WITH HALF NEUTRAL. ALL LOADS THAT ARE 3Ø, 4 WIRE ARE 50 INDICATED.
4. EACH DEVICE ASSOCIATED WITH THE SWGR NO. TRANSFORMER AND THE NORMAL OR ALT CKT BKRS IS PART OF THE 480V NORMAL AC AUX PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, 1ED. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH 1ED, EXCEPT AS NOTED. ALL OTHER BKRS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNID IS FORMED BY PREFIXING THE DESIGNATION SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNID DESIGNATIONS ARE FORMED AS FOLLOWS USING THE COMPARTMENT NO. (XX) AND THE BOARD NO. (YY):- 1ED - ELVS-XXYY.
5. MCA LOADS SHOWN ARE BY NAMEPLATE MAXIMUM DEMAND.
6. SLOWN FUSE TRIPS BREAKER.

SYMBOLS:

- K - KEY INTERLOCK
- M - CONNECTION TO REMOTE METER (UNIT CONTROL RM)
- SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
  - L - LONG TIME DELAY (OVERLOAD)
  - S - SHORT TIME DELAY (SELECTIVE TRIP)
  - I - INSTANTANEOUS (FAULT CURRENT)
  - G - GROUND FAULT (CURRENT)
- INTERFACE FOR STATUS, ENVIRONMENTAL & ALARM MONITORING SYS (SEAMS)
- 1ED INDICATING LAMP
- ANN - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATOR OR ALARM SYSTEMS.
- 52TX - INTERFACE FOR DECONTIC (TURBINE CONTROL) SYS
- XXX - UNIT AND SYS DESIGNATION (SEE NOTE 4)

REV	ECN NO	DATE	ORIGN	DES	CHKD	SUPV	ENGR	PROJ	SUBM	RECM	APPR
4	51439										
3	46435134										
2	20										
1	1420										

4 GEN REV PER ECN 51439 - VARIOUS ADD. CKT BKR CONTROL SW AND MOD SENSOR RATING PER ECN 1439.
3 ADDED AMP TRANSDUCER PER ECN 146 INCORPORATED SEAMS PER ECN 1441 - SERIOUS - INCORPORATED UNID SYS GEN REV PER ECN 20 - VARIOUS UPDATE FOR MS 2.0 CHANGES PER ECN 1343
2 ADD TRANSFORMER COOLING FANS
1 INC 480V DIST SYS - FROM DELTA TO GRD-WYE AND ADDED GRD FAULT PROT PER ECN 12, REV LOADS PER ECN 20.

DSGN - H.B. BOUNDS
DWNG - E. FRASER
CHKD - J.R. KNIGHT
SUPV - R.D. SLATER
ENGINEER - [signature]

TURBINE BUILDING
UNIT 1

SINGLE LINE DIAGRAM
480V SWITCHGEAR 1XC1
1ED-ELVS-16

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
[signature]	[signature]	[signature]

KNOXVILLE 2-19-74 | 00 | E | 2TW1728-ED-1 | RS

45W727-3 | RECORD DRAWING AS CONSTRUCTED

REVISION RECORD			
REV	DESCRIPTION	DATE	APPROVED
5	51439 REPLACED 3 AMP FUSES WITH 6 AMP FUSES MINOR CHANGES	2-5-81	[signature]

INSPECTED AND APPROVED FOR ISSUE
[signature]
DESIGN PROJECT MANAGER

Docket # 50-438
Control # 830405036
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD