REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
1,2,W2720-EP-1	PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE
5,6,W2720-ED-	480 V SWGR (XCI) SYSTEM SCHEMATIC

NOTES:

1. 480V SWGR PROVIDED ON CONTRACT NO 76R3-65526.
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.
   2000A FR BKRS HAVE 65,000A RMS SYM INTERRUPTING RATING AT 480V.
   ALL REMOTELY OPERATED BKRS ARE EQUIPPED WITH AN ELECTRICAL LOCKOUT ATTACHMENT ACTUATED WHEN BKR IS TRIPPED AUTOMATICALLY BY THE AMPTECTOR.
3. BUS TO BE 3Ø WITH HALF NEUTRAL. ALL LOADS THAT ARE 3Ø, 4 WIRE ARE SO INDICATED.
4. EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE NORMAL OR TIE CKT BKRS, IS PART OF THE 480V NORMAL AC AUX PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION 2ED. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE 2ED. EXCEPT AS NOTED. ALL OTHER BKRS WITH THEIR ASSOCIATED DEVICES ARE PART OF 1E SYSTEM WHICH THEY SUPPLY. THE UNID IS FORMED BY PREFIXING THE DESIGNATIONS 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): 2ED-ELVS-YY(XX).
5. KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
6. BLOWN FUSE TRIPS BREAKER.

SYMBOLS:

- ANN - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS
- K - KEY INTERLOCK
- 333 LSG - 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, AND ALARM MONITORING SYS (SEAMS)
- R - RED INDICATING LIGHT
- ▽ - CONNECTION TO REMOTE METER (UNIT CONTROL ROOM)
- ▽ - INTERFACE FOR SEISMIC SYS
- XXX - UNIT AND SYS DESIGNATION (SEE NOTE 2)

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	THKD	INDP	APPRD	RECD	ADMN
4	51,439	11-20-78		TAS							
3	46,44,51	5-5-78		LOG							
2	20	11-8-76		SUN	POR	TES					
1	12,20	9-9-76		LOY	REM	TES					

4 — ADD CKT BKR CONTROL SWITCH AND MODIFIED SENSOR RATING PER ECN 439. GEN REVISIONS PER S1-VARIOUS.
3 — ADDED RMP TRANSDUCER PER ECN 46. INCORPORATED SEAMS PER ECN 44-VARIOUS. INCORPORATED UNID SYS. GEN REV PER ECN 5-1 VARIOUS. UPDATE FOR MAJOR CHANGES PER ECN 134.
2 — ADD TRANSFORMER COOLING FANS
1 — CHG 480V DISTR SYS FROM DELTA TO WYE AND ALLIED CKD FAULT PROT PER ECN 12, REV LOADS PER ECN 20.

DSGN - H.B.BOURDS
DRWN - R.SPICKEN
CHKD - D.M.SLOSTER
SUPV - R.W.SLOSTER

TURBINE BUILDING
UNIT 1

SINGLE LINE DIAGRAM
480V SWITCHGEAR 2XC1
2ED-ELVS-16

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
A.W.Nowell	T.E.Stuckless	S.W.Shaffer

KNOXVILLE 2-19-79 | 88 | E | 2TW2728-ED-1 | R6

45W728-3

THIS DRAWING IS UNDER CONFIGURATION CONTROL

REVISIONS														
6	1245	6-22-81												
5	1155,51	4-3-81												

6 — REPLACED 1200A FUSES IN COMPT E4 WITH 800A FUSES
5 — REPLACED 3 AMP FUSES WITH 6 AMP FUSES PER NRC CHANGES

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

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

PRC APERTURE CARD