REFERENCE DRAWINGS	
STANDARD NUMBER	TITLE
2TW2726-ED-1	480V SWGR 1AI ELEMENTARY DIAGRAM
2TW2726-ED-4	480V SWGR 1AI ELEMENTARY DIAGRAM

NOTES:

1. 480V SWGR PROVIDED ON CONTRACT NO. TVA-63-65526
2. ALL CKT BKRS ARE 3-POLE, 600A FR WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE ON EACH POLE, EXCEPT AS NOTED.

   600A FR BKRS HAVE 200,000A RMS SYM INTERRUPTING RATING AT 480V.
   1600A FR BKRS HAVE 50,000A RMS SYM INTERRUPTING RATING AT 480V.
   3200A FR BKRS HAVE 65,000A RMS SYM INTERRUPTING RATING AT 480V.

   ALL REMOTELY OPERATED BKRS ARE EQUIPPED WITH AN ELECTRICAL LOCKOUT ATTACHMENT (ACTUATE) WHEN BKR IS TRIPPED AUTOMATICALLY BY THE ARMTECTOR
3. BUS TO BE 3Ø WITH HALF NEUTRAL. ALL LOADS THAT ARE 3Ø 4 WIRE ARE 3Ø AS 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 2ED, EXCEPT AS NOTED. ALL OTHER BKRS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE 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 HEADING 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-ELYS-YY##.
5. KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
6. BLOWN FUSE TRIPS BREAKER.

SYMBOLS:

- 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)
- (X) - RED INDICATING LIGHT
- - INTERFACE WITH DECONTIC
- XXX - UNIT AND SYS DESIGNATION (SEE NOTE 4)
- (X) - KEY INTERLOCK
- ANN. THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS
- INTERFACE WITH REMOTE CONTROL

NO.	DATE	DESCRIPTION
6	10/13	REPLACED 3 AMP FUSES WITH 6 AMP FUSES
4	51,242,439	DELETE SWYD POWER DISTRIBUTION CAB FDR AND RETAIN AS SPARE PER ECN 242. ADD CKT BKR CONTROL SWITCH AND MODIFIED SENSOR RATING PER ECN 439. GEN REVISIONS PER SI-VARIOUS
3	44,51,134	INCORPORATED CHANGES PER FCN #6 "VARIOUS" INCORPORATED UNID SYS. GEN REV PER ECN 5-1 -VARIOUS. UPDATE FOR MAJOR CHANGES PER ECN 154.
2	20	ADD TRANSFORMER COOLING FANS
1	12,20	CHG 480V DISTR SYS FROM DELTA TO GRD WYE AND ADDED GRD FAULT PROT PER ECN 12, REV LOADS PER ECN 20.

ECN NO.	DATE	BRANCH	MECH	ELEC	CIVIL	NSP	PROTECTION	APPR
DRAWN	H.B. SQUIDS							
TRACED	A. SPEARS							
CHKD	R.W. SMITH							
SUPV	R.W. SADLER							

ISSD
ENGR

TURBINE BUILDING

UNIT 2

SINGLE LINE DIAGRAM
480V SWITCHGEAR 2XA1
2ED-ELVS-14

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE 2-19-74 | 88 | E | 2TW2726-ED-1 | R5

45W728-1

INSPECTED AND APPROVED FOR ISSUE
R.M. Hodges
DESIGN PROJECT MANAGER

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

PRC APERTURE CARD