

REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
25W0720-EP-1	PLANT AC MILITARY POWER SYSTEM SINGLE LINE
50W2740-EP-3	480V SWGR 2XB2 SYSTEM SCHEMATIC

- NOTES:
- 480V SWGR PROVIDED BY CONTRACT NO. 76K3-83528
 - ALL CIR. BREAKS ARE 3-POLE, BOND-FR WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED.
600A FR BREAKS HAVE 200,000 RMS SYM INTERRUPTING RATING AT 480V.
3200A FR BREAKS HAVE 65,000 RMS SYM INTERRUPTING RATING AT 480V.
AS NOTED, BREAKS ARE EQUIPPED WITH AN ELECTRICAL LOCKOUT ATTACHMENT ACTUATED WHEN BREAK IS TRIPPED AUTOMATICALLY BY THE INSPECTOR.
 - BUS IS 3Ø WITH HALF NEUTRAL. ALL LOADS THAT ARE 3Ø, W WIRE ARE SO INDICATED.
 - RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TYP APPROVED EQUAL.

- EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE MON OR TIE CIR. BREAKS, IS PART OF THE 480V NORMAL AC BUS AND DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION 2ØD. THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH 2ØD, EXCEPT AS NOTED. ALL OTHER BREAKS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEADLINE SYMBOL, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNIT DESIGNATIONS ARE FORMED AS FOLLOWS USING COMPARTMENT NO. (XX) AND BOARD NO. (YY): 2ØD-ELVS-YYXX.
- BLOWN FUSE TRIPS BREAKER.

- KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
 - THIS EQPT IS NON-CLASS I, LOCATED IN A CATEGORY I STR.
- SYMBOLS:
- SOLID STATE TRIP DEVICE WITH 50% RATING SHOWN
 - L-LOADING TIME DELAY (OVERLOAD)
 - SHORT TIME DELAY (SELECTIVE TRIP)
 - INSTANTANEOUS (FAULT CURRENT)
 - G-GROUND (FAULT CURRENT)
 - INTERFACE FOR STATUS ENVIRONMENTAL AND ALARM MONITORING SYS (SEAMS)
 - UNIT AND SYS DESIGNATION (SEE NOTE 5)
 - RED INDICATING LIGHT
 - KEY INTERLOCK
 - ANN. - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS.

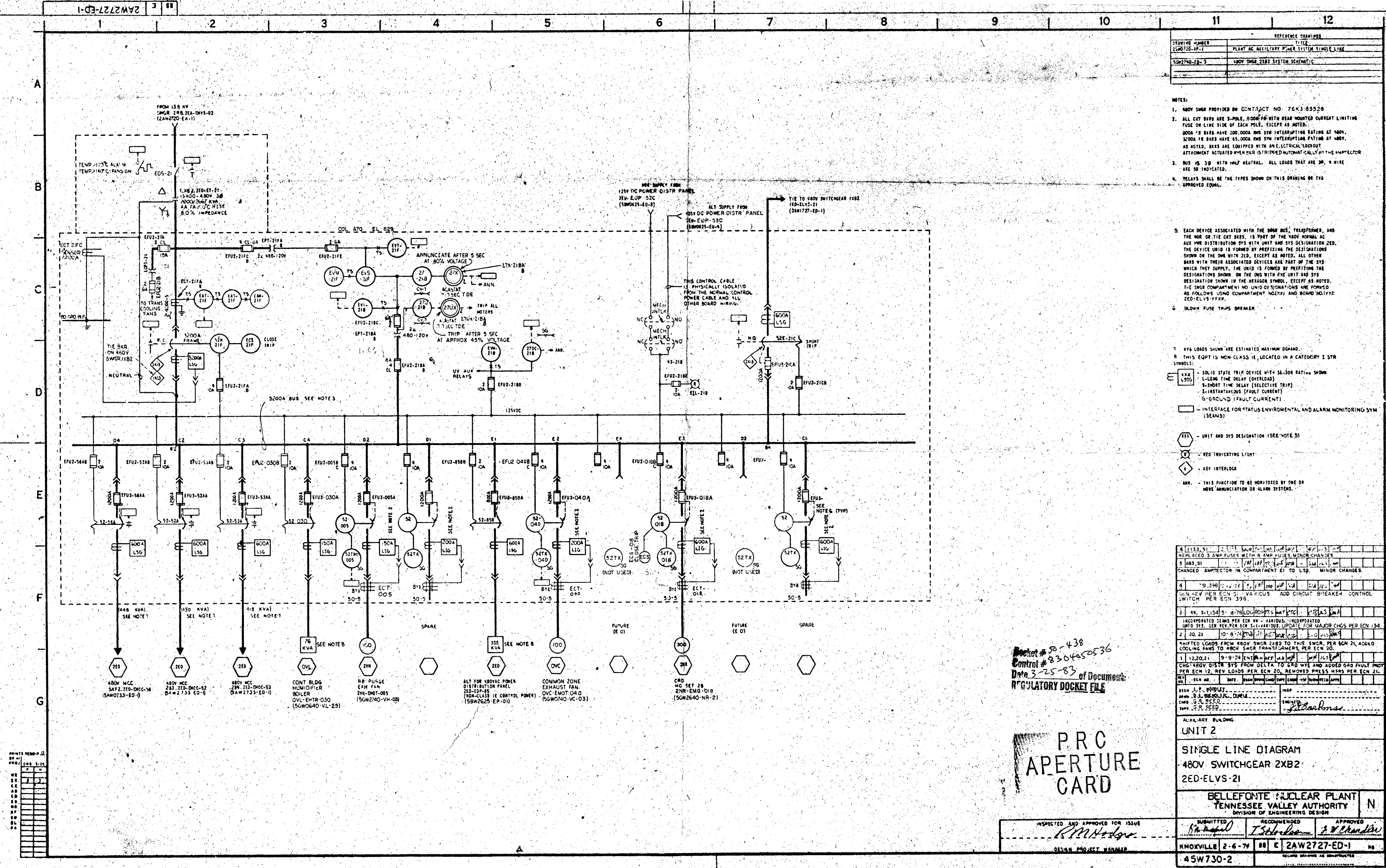
6/1/53, 51	REPLACED 5 AMP FUSES WITH 8 AMP FUSES, MINOR CHANGES		
5/6/53, 51	CHANGED AMP METER IN COMPARTMENT E1 TO LSG. MINOR CHANGES		
4/9/53, 51	GEN REV PER ECN 51 - VARIOUS ADD CIRCUIT BREAKER CONTROL SWITCH PER ECN 396.		
3/11/53, 51	INCORPORATED CHGS PER ECN 41 - VARIOUS, INCORPORATED UNIT SYS, GEN REV PER ECN 31 - VARIOUS, UPDATE FOR MAJOR CHGS PER ECN 134		
2/20/51	SHIFTED LOADS FROM 480V SWGR 2XB2 TO THIS SWGR, PER ECN 21, ACCORD COOLING FANS TO 480V SWGR TRANSFORMERS, PER ECN 20.		
1/12/50, 21	CHG 480V DISTR SYS FROM DELTA TO GAO WYE AND ADDED GAO FAULT PROT PER ECN 12, REV LOADS PER ECN 20, REMOVED PRESS MISRS PER ECN 21.		
REV	ECN NO.	DATE	DESCRIPTION
51	51	5/1/53	REPLACED 5 AMP FUSES WITH 8 AMP FUSES, MINOR CHANGES
51	51	5/6/53	CHANGED AMP METER IN COMPARTMENT E1 TO LSG. MINOR CHANGES
51	51	4/9/53	GEN REV PER ECN 51 - VARIOUS ADD CIRCUIT BREAKER CONTROL SWITCH PER ECN 396.
51	51	3/11/53	INCORPORATED CHGS PER ECN 41 - VARIOUS, INCORPORATED UNIT SYS, GEN REV PER ECN 31 - VARIOUS, UPDATE FOR MAJOR CHGS PER ECN 134
51	51	2/20/51	SHIFTED LOADS FROM 480V SWGR 2XB2 TO THIS SWGR, PER ECN 21, ACCORD COOLING FANS TO 480V SWGR TRANSFORMERS, PER ECN 20.
51	51	1/12/50	CHG 480V DISTR SYS FROM DELTA TO GAO WYE AND ADDED GAO FAULT PROT PER ECN 12, REV LOADS PER ECN 20, REMOVED PRESS MISRS PER ECN 21.
51	51	5/1/53	REPLACED 5 AMP FUSES WITH 8 AMP FUSES, MINOR CHANGES
51	51	5/6/53	CHANGED AMP METER IN COMPARTMENT E1 TO LSG. MINOR CHANGES
51	51	4/9/53	GEN REV PER ECN 51 - VARIOUS ADD CIRCUIT BREAKER CONTROL SWITCH PER ECN 396.
51	51	3/11/53	INCORPORATED CHGS PER ECN 41 - VARIOUS, INCORPORATED UNIT SYS, GEN REV PER ECN 31 - VARIOUS, UPDATE FOR MAJOR CHGS PER ECN 134
51	51	2/20/51	SHIFTED LOADS FROM 480V SWGR 2XB2 TO THIS SWGR, PER ECN 21, ACCORD COOLING FANS TO 480V SWGR TRANSFORMERS, PER ECN 20.
51	51	1/12/50	CHG 480V DISTR SYS FROM DELTA TO GAO WYE AND ADDED GAO FAULT PROT PER ECN 12, REV LOADS PER ECN 20, REMOVED PRESS MISRS PER ECN 21.

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Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC
APERTURE
CARD

INSPECTED AND APPROVED FOR ISSUE	SUBMITTED	RECOMMENDED	APPROVED
<i>R.M. Hodges</i>	<i>R. Hodges</i>	<i>T. Sholden</i>	<i>J. H. Chandler</i>
DESIGN PROJECT MANAGER	KNOXVILLE 2-6-79 88 E 2AW2727-ED-1		
45W730-2	RECORD DRAWING AS SUBMITTED		

ALTERNATE BUILDING	UNIT 2
SINGLE LINE DIAGRAM	
480V SWITCHGEAR 2XB2	
2ØD-ELVS-21	
BELLEFONTE NUCLEAR PLANT	
TENNESSEE VALLEY AUTHORITY	
DIVISION OF ENGINEERING DESIGN	
N	



PRINTED PER ECN 12	REV	DATE	BY
PROJ	1	3/25/83	R.M. Hodges
DES	2	3/25/83	R.M. Hodges
ENG	3	3/25/83	R.M. Hodges
APP	4	3/25/83	R.M. Hodges
CHK	5	3/25/83	R.M. Hodges
APP	6	3/25/83	R.M. Hodges
CHK	7	3/25/83	R.M. Hodges
APP	8	3/25/83	R.M. Hodges
CHK	9	3/25/83	R.M. Hodges
APP	10	3/25/83	R.M. Hodges
CHK	11	3/25/83	R.M. Hodges
APP	12	3/25/83	R.M. Hodges
CHK	13	3/25/83	R.M. Hodges
APP	14	3/25/83	R.M. Hodges
CHK	15	3/25/83	R.M. Hodges
APP	16	3/25/83	R.M. Hodges
CHK	17	3/25/83	R.M. Hodges
APP	18	3/25/83	R.M. Hodges
CHK	19	3/25/83	R.M. Hodges
APP	20	3/25/83	R.M. Hodges