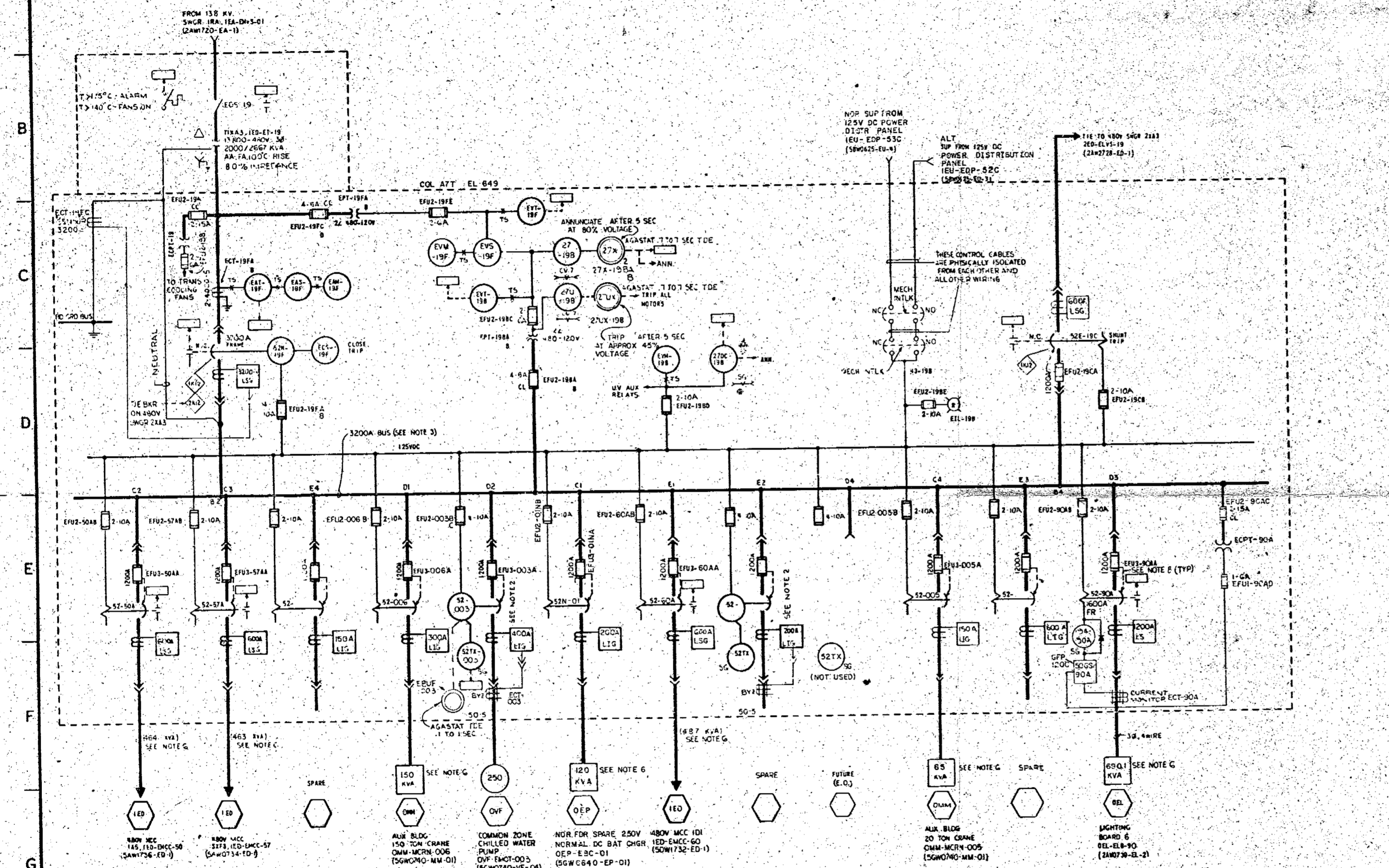


REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
24W720-ED-1	PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE
24W720-ED-4	480V SWGR LINE SYSTEM SCHEMATIC

- NOTES:
- 480V SWGR PROVIDED ON CONTRACT NO. 78K3-8522G.
 - ALL CUT BARS ARE 3-POLE BARS WITH REAR MOUNTED CURRENT LIMITING FUSES ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED.
200A FR BARS HAVE 200,000 RMS SYN INTERRUPTING RATING AT 480V.
1200A FR BARS HAVE 45,000 RMS SYN INTERRUPTING RATING AT 480V.
AS NOTED, BARS ARE EQUIPPED WITH AN ELECTRICAL LOCK-OUT ATTACHMENT, ACTIVATED WHEN BAR IS TRIPPED AUTOMATICALLY BY THE ADMTECTOR.
 - BUS IS .315" WITH HALF NEUTRAL. ALL LOADS THAT ARE 3Ø WIRE ARE 3Ø INDICATED.
 - RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TYP APPROVED EQUAL.

- 5 EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE NORMAL OR THE CUT BARS, IS PART OF THE NORMAL AC AUXILIARY DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, IED. THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE ONE WITH IED, EXCEPT AS NOTED. ALL OTHER BARS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE ONE WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEAD OF THE SYMBOL, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNIT DESIGNATIONS ARE FORMED AS FOLLOWS USING THE COMPARTMENT NO. (C1) AND THE BOARD NO. (Y), IED ELVS-YXX.
 - MAX LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
 - THIS SWGR IS CLASSIFIED, LOCATED IN A CATEGORY 3 SWGR.
 - BUS AND FUSE BARS BREAKER.
- SYMBOLS:
- RED INDICATING LIGHT
 - KEY INTERLOCK
 - SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
 - LONG TIME DELAY (OVERLOAD)
 - SHORT TIME DELAY (SELECTIVE TRIP)
 - INSTANTANEOUS (FAULT CURRENT)
 - GROUND (FAULT) CURRENT
 - INTERFACE FOR STATUS ENVIRONMENTAL AND ALARM MONITORING SYS (SEAMS)

- ANN - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS.
- UNIT AND SYS DESIGNATION (SEE NOTE 5)



REV	DATE	DESCRIPTION
1	10/20/73	ISSUED FOR CONSTRUCTION
2	11/22/73	REPLACED 3 AMP FUSES WITH 6 AMP FUSES
3	08/31/74	EXCHG 31 AMP WITH 15 AMP FUSES IN COMPARTMENTS E1 AND E3. MINOR CHANGES.
4	09/22/74	EXCHG BREAKERS IN COMPARTMENTS E1 AND E3. MINOR CHANGES.
5	11/14/74	REPLACE 25 MAJOR CHANGES PER EIA 134. INCORPORATED LIND SYS. DELETED CONT 3 LOG HUMIDIFIER BOILER. REV REV PER ECA 21. VARIOUS
6	02/20/75	ADDED LOADS FROM 480V SWGR. USED TO THIS SWGR PER ECA 21. ADDED COOLING FANS TO 480V SWGR TRANSFORMERS PER ECA 20.
7	02/20/75	ADDED 480V DISR. SYS FROM UETA TO GRD WYE AND ADDED CRD FAULT PROT PER ECA 12. REV LEADS PER ECA 20.
8	07/01/75	REV 125VDC BUS FROM 150VDC TO 125VDC PER ECA 21.
9	09/01/75	REV 480V SWGR FROM UETA TO GRD WYE AND ADDED CRD FAULT PROT PER ECA 12. REV LEADS PER ECA 20.

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



AUXILIARY BUILDING

UNIT 1

SINGLE LINE DIAGRAM
480V SWITCHGEAR IXA3
IED-ELVS-19

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED RM 11/18/74	RECOMMENDED J.H. 12/18/74	APPROVED P.K. 12/18/74
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KNOXVILLE 2-6-74 88 E 24W728-ED-1 26
45W729-3

INSPECTED AND APPROVED FOR ISSUE
RM
DESK PROJECT MANAGER

PRINTS RECORD

MR	
MGR	
ENG	
DRG	
CD	
ED	
FD	
LD	
RD	
SD	
TD	
UD	
VD	
WD	
XD	
YD	
ZD	