

REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
45W727-1	PLANT AC BUS/LOAD SINGLE LINE
45W727-2	480V SWITCHGEAR SCHEMATIC
45W727-3	480V SWITCHGEAR SYSTEM SCHEMATIC

- NOTES:
- 480V SWGR PROVIDED ON CONTRACT NO 1043 55536
 - ALL CBT BARS ARE 3-POLE, 600A FR WITH REM MOUNTED CURRENT LIMITING FUSE OR LINE SIDE OF EACH POLE, EXCEPT AS NOTED. 600A FR BARS HAVE 200,000A BUS SYN INTERRUPTION RATING AT 480V. 1200A FR BARS HAVE 50,000A BUS SYN INTERRUPTION RATING AT 480V. 3200A FR BARS HAVE 45,000A BUS SYN INTERRUPTION RATING AT 480V. ALL REMOTELY OPERATED BARS ARE EQUIPPED WITH AN ELECTRICAL ATTACHMENT ACTIVATED WHEN BUS IS THROTTLED AUTOMATICALLY BY THE BART.
 - BUS TO BE WITH MAIN NEUTRAL. ALL LOADS THAT ARE 3- & 4 WIRE ARE SO INDICATED.

- EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND LINE TERMINAL OR THE CBT BARS IS PART OF THE NEARBY AC BUS FOR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, IED. THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE CBT 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 SWGR WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE PREVIOUS SYMBOLS, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNIT DESIGNATIONS ARE FORMED AS FOLLOWS: THE COMPARTMENT NO. (11) AND THE SWGR NO. (11); (E1-15V-15A).
- KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND
- BLOWN FUSE TRIPS BREAKER

- SYMBOLS:
- UNIT AND SYSTEM DESIGNATION (SEE NOTE 4)
 - INTERFACE FOR REMOTE CONTROL
 - ANN - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS
 - KEY INTERLOCK
 - SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
 - L - LONG TIME DELAY (OVERLOAD)
 - S - SHORT TIME DELAY (SELECTIVE TRIP)
 - I - INSTANTANEOUS (FALL CURRENT)
 - G - GROUND (FAULT CURRENT)
 - INTERFACE FOR STATUS ENVIRONMENTAL ALARM MONITORING SYS (STAND)
 - RED INDICATING LIGHT
 - INTERFACE FOR DECONTAM SYS

NO.	DATE	DESCRIPTION	BY	CHKD
1	11.15.72	ISSUED		
2	12.20	REVISION		
3	12.20	REVISION		
4	12.20	REVISION		
5	12.20	REVISION		
6	12.20	REVISION		
7	12.20	REVISION		
8	12.20	REVISION		
9	12.20	REVISION		
10	12.20	REVISION		
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15	12.20	REVISION		
16	12.20	REVISION		
17	12.20	REVISION		
18	12.20	REVISION		
19	12.20	REVISION		
20	12.20	REVISION		

PRC APERTURE CARD

UNIT 1
SINGLE LINE DIAGRAM
480V SWITCHGEAR 1X81
IED ELV5-15

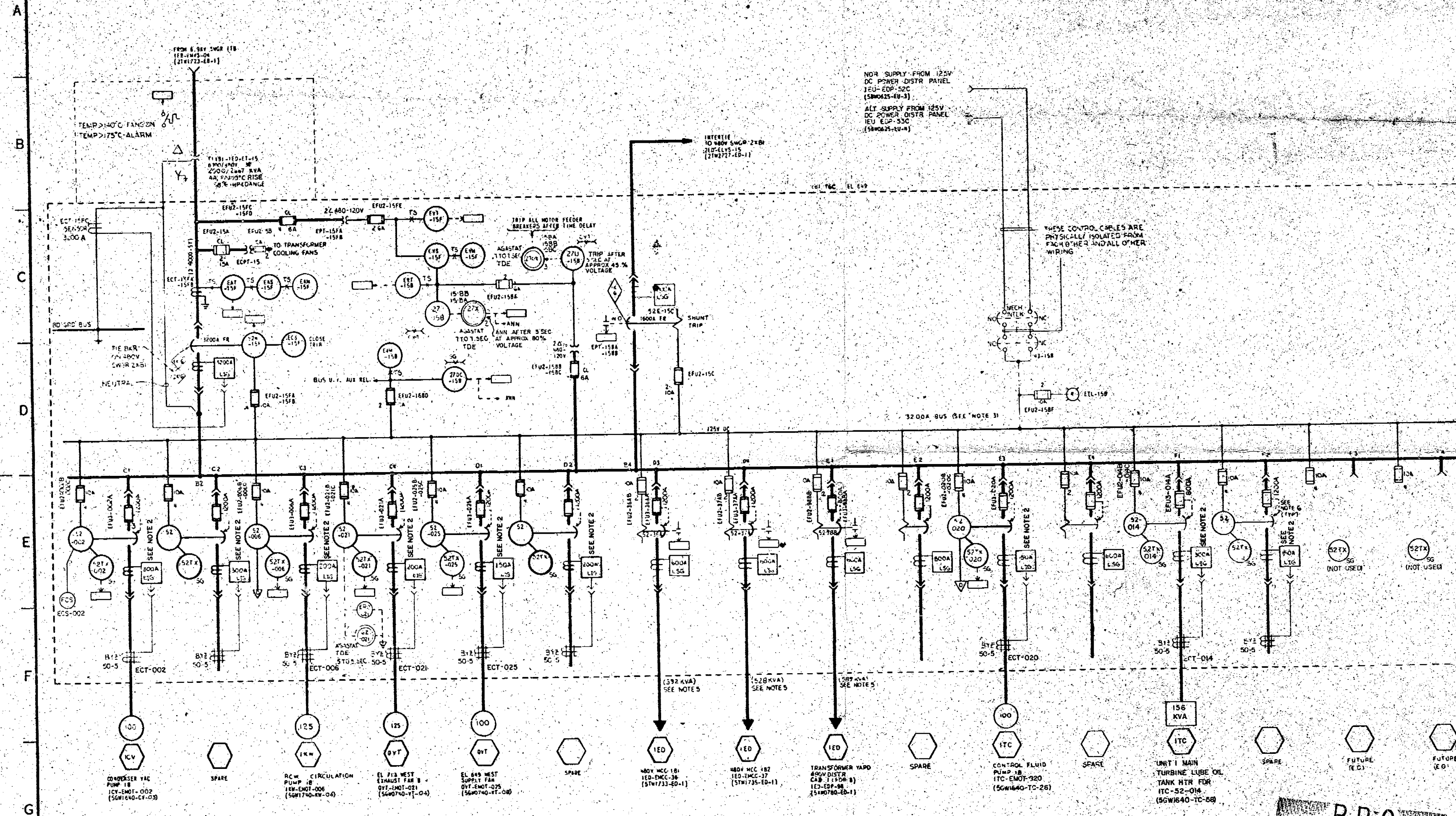
BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

REPLACED 1200A FUSES IN COMPT F1 WITH 800A FUSES

INSPECTED AND APPROVED FOR ISSUE

DESIGN PROJECT NUMBER: 45W727-2

RECORD NUMBER AS CONSTRUCTED



NOV SUPPLY FROM 125V DC POWER DISTR PANEL IED-EDP-52C (56W025-EV-3)
ALT SUPPLY FROM 125V DC POWER DISTR PANEL IED-EDP-53C (56W025-EV-4)

THESE CONTROL CABLES ARE PHYSICALLY ISOLATED FROM EACH OTHER AND ALL OTHER WIRING

3200A BUS (SEE NOTE 3)

125V DC

Docket # 50435
Cont # 830405536
3-25-83 of Documents
REGULATORY DOCKET FILE

REPLACED 1200A FUSES IN COMPT F1 WITH 800A FUSES

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