



REFERENCE DRAWINGS	
DRAWING NUMBER	TITLE
2AW1726-EP-1	PLANTING AUXILIARY POWER SYSTEM SINGLE LINE
2AW1726-ED-2	138KV BUSBARS SYSTEM SCHEMATIC

- NOTES:
1. 480V BARS PROVIDED WITH OVERCURRENT PROTECTION (OCP) DEVICES.
 2. ALL CBT BARS ARE 3-PHASE, 800A WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED. 800A FB BARS HAVE 200,000 INH SHM INTERRUPTING RATING AT 480V. 1600A FB BARS HAVE 200,000 INH SHM INTERRUPTING RATING AT 480V. 3200A FB BARS HAVE 65,000 INH SHM INTERRUPTING RATING AT 480V. AS NOTED, BARS ARE EQUIPPED WITH AN ELECTRICAL LOCKOUT ATTACHMENT LOCATED WHENEVER STAMPED AUTOMATICALLY BY THE MANUFACTURER.
 3. BUS IS 3% WITH MAXIMUM UNBALANCED LOADS THAT ARE 30% A WIRE OR SINGLE PHASE & WIRE ARE 20% INDICATED.
 4. RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TYPE APPROVED EQUAL.
 5. EACH DEVICE ASSOCIATED WITH THE SHOR BUS, TRANSFORMER, AND THE NORMAL TO TIE CBT BARS IS PART OF THE 480V NORMAL AC BUS POWER DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, I.E., THE DEVICE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE Dwg WITH TED, 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 Dwg WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE WEAPON SYMBOL, EXCEPT AS NOTED. THE SHOR COMPARTMENT INCLUDES EXHAUSTS AND IS FORMED AS FOLLOWS USING THE COMPARTMENT PREFIX AND THE SHOR PREFIX: IED-ELYS-TYX.
 6. KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
 7. THIS EQPT IS NON-CLASS I.E. LOCATED IN A CATEGORY I STR.
 8. BLOWN FUSE TRIPS BREAKER.

- SYMBOLS:
- SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
 - L LONG TIME DELAY (OVERLOAD)
 - S SHORT TIME DELAY (SELECTIVE TRIP)
 - T TIME DELAY (FAULT CURRENT LIMIT)
 - G GROUND (FAULT CURRENT)
 - INTERFACE FOR STATUS, ENVIRONMENTAL & ALARM MONITORING SYS (SEAMS)
 - ◯ UNIT AND SYS DESIGNATION (SEE NOTE 5)
 - ◇ KEY INTERLOCK
 - ◊ RED INDICATING LIGHT
 - ANN. THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION ON ALARM SYSTEM
 - PRIMARY CONTAINMENT PENETRATION

7	3136	11/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88
8	3136	11/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88

9	3136	11/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88
10	3136	11/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88	12/2/88

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 3-25-88
 Document
 CRV DOCKET FILE

P.R.C
APERTURE
CARD

ALTERNATE BUILDING	UNIT 1
SINGLE LINE DIAGRAM	480V SWITCHGEAR 1XA2
IED-ELYS-18	
BELLEFONTE NUCLEAR PLANT	
TENNESSEE VALLEY AUTHORITY	
DIVISION OF ENGINEERING DESIGN	

DESIGNED AND APPROVED FOR ISSUE	RECOMMENDED	APPROVED
R.M. Holroyd	J.S. ...	J.V. ...
DESIGN PROJECT MANAGER		
KNOXVILLE 2-6-74	88 E 2AW1726-ED-1	
45W729-1		

POINTS	REVISIONS
NO.	DATE
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