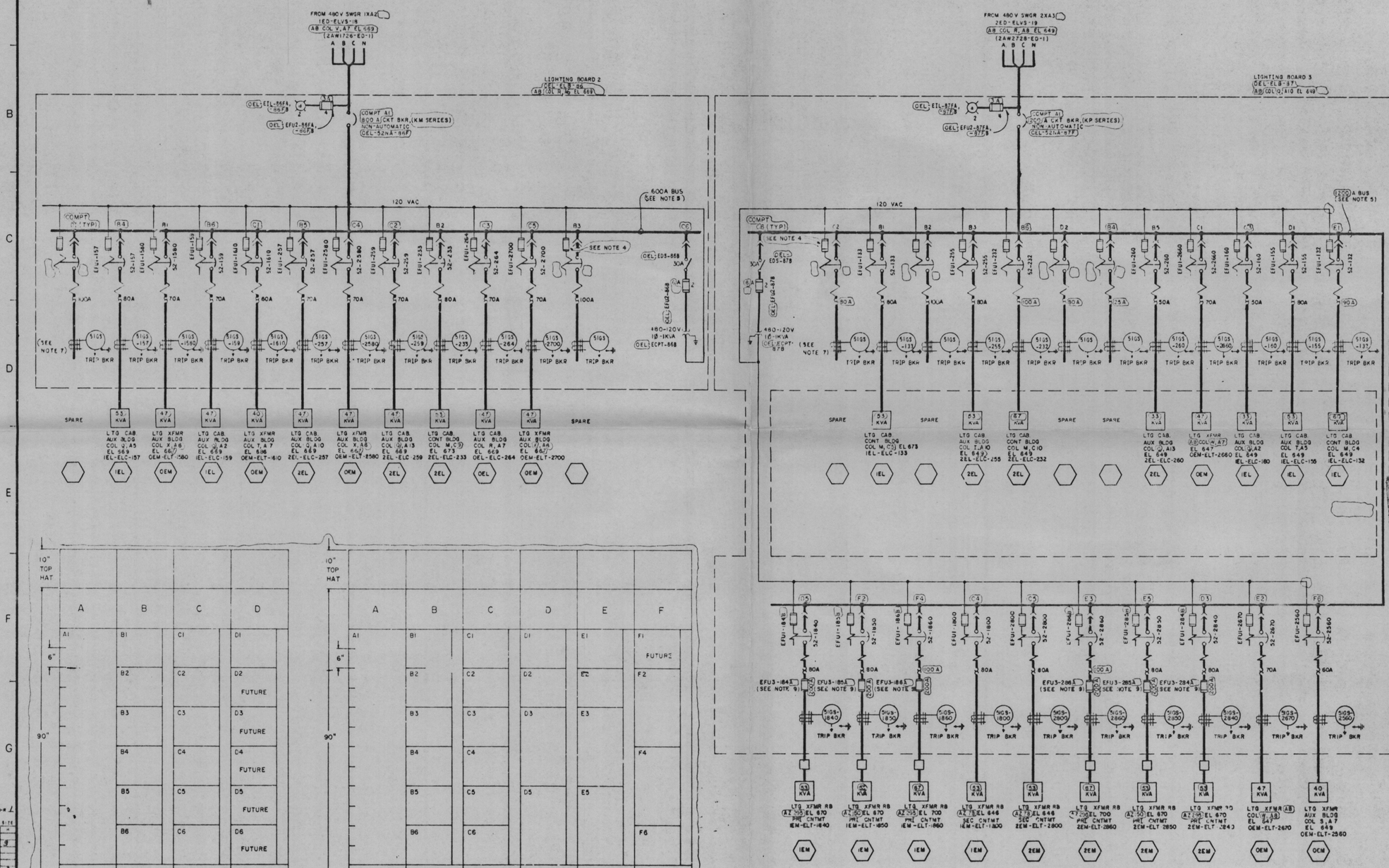

REFERENCE DRAWINGS

DWG NO.	TITLE
2C-W0730-RP-1	PLANT AC AUX PWR SYS SINGLE LINE
2AW1726-ED-1	480V SWGR 1XA2 (ED-ELV3-18) (3L)
2AW2726-ED-1	480V SWGR 2XA3 (ED-ELV3-19) (3L)
1C-W0747-EL	MCC AC (SEE FOR WIRING DIAG)
2C-W0747-RP	480V MCC COMPARTMENT (TYPICALS)

NOTES:

1. LIGHTING BOARDS (MCC) (ARE) PROVIDED ON TVA CONTRACT 74K5-86242 (WITH GOULD/ITE)
2. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600V, THERMAL-MAGNETIC WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000A RMS SYMMETRICAL AT 480 VOLTS. ALL CKT BREAKERS ARE 100A FRAME, ITE HE SERIES WITH SHUNT TRIP, EXCEPT AS NOTED. THE PICK UP VOLTAGE OF THE SHUNT TRIP COIL IS 55% OF THE RATED VOLTAGE.
3. UNIDS FOR LOAD BREAKERS AND THEIR ASSOCIATED DEVICES ARE FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE LIGHTING BOARD COMPARTMENT UNID DESIGNATION IS FORMED AS FOLLOWS USING THE COMPARTMENT NO. (XX) AND THE BOARD NO. (YY): OEL-ELB-YYXX.
4. ALL SHUNT TRIP COIL FUSES ARE 5 A, GOULD/SHAWMUT, AMP-TRAP, FORM 600, MIDGET TYPE 2. A NO AUXILIARY CONTACT IS PROVIDED ON THE BREAKER TO DISCONNECT THE SHUNT TRIP COIL VOLTAGE WHEN THE BREAKER IS OPEN.
5. THE BOARD BUS IS 3Ø 4 WIRE, FULL NEUTRAL.
6. LC LOADS ARE ESTIMATED FOR MAX DEMAND FOR AC'L TOTAL DEMAND LOAD, SEE LTG CKT BREAKER SCHEDULES.
7. GROUND FAULT PROTECTION (51GS) IS ADJUSTABLE FROM 200 TO 1200 AMPS. TIME ADJUSTMENT IS PROVIDED FROM 6 TO 30 CYCLES. ALL GFS RELAYS ARE SET AT 800 AMPS PICK UP AND AT 6 CYCLES.
8. VERTICAL BUS RATING IS 600 A.
9. FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS J CURRENT LIMITING (FUSES ARE REQUIRED TO PROVIDE REDUNDANT SHORT CIRCUIT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS).
10. THIS EQUIPMENT IS NON-CLASS IE LOCATED IN A CATEGORY II STRUCTURE
11. THE LIGHTING BOARD FRONT VIEW IS CONTROLLED BY THIS SINGLE LINE COMPARTMENT TYPICAL SCHEMATICS AND VENDOR WIRING DIAGRAMS ARE CONTROLLED BY THE MCC COMPUTERIZED CIRCUIT SCHEDULES.

SYMBOLS

- XXX -------- UNIT & SYSTEM DESIGNATION (SEE NOTE 3)
- -------- AMBER INDICATING LIGHT
- (RB) PRIMARY CONTAINMENT PENETRATION

PRC APERTURE CARD

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	TVA	ENGR	APPR
4	S1	12-7-79	CPM								
	ADDED FRONT VIEWS, UPDATED COMPARTMENT ASSIGNMENTS, EST MAX DEMANDS, BKR THDR RATINGS, & OTHER MINOR CHANGES										
4	S1, 134	4-10-78	AN								
	INCORPORATED UNID SYS, ZEN REV PER ECN S1-VARIOUS. ADDED LOADS AND INCREASED CAPACITIES PER ECN 134										
3	S-1	1-8-75	WTH	RDR							
	CHANGED NOTE 6, AND OTHER MINOR CHANGES.										
2	S-1	12-6-74	ENI	RDR	HFJ						
	CHANGED GROUND FAULT PROTECTION FROM INSTANTANEOUS TO TIME DELAY, REPLACED CONTROL VOLTAGE CB WITH DISCONNECT SWITCH.										
1	12	8-20-74	BJN	RDR	HFJ						
	CHANGED LTG SYS FROM 208/120V TO 480/277V GROUNDED WYE.										

DSGN M.B. BOUNDS
DRWN R.D. RIDER
CHKD R.W. SMITH
SUPV R.W. SLATER
INSP
ENGINEER

AUXILIARY BUILDING
UNITS 1&2

SINGLE LINE
480/277V LIGHTING BOARDS 2&3
OEL-ELB-86 & 87

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE 2-19-74 | 88 | 1 | 2AW0739-EL-1 | R3

RECORD DRAWING AS CONSTRUCTED

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

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