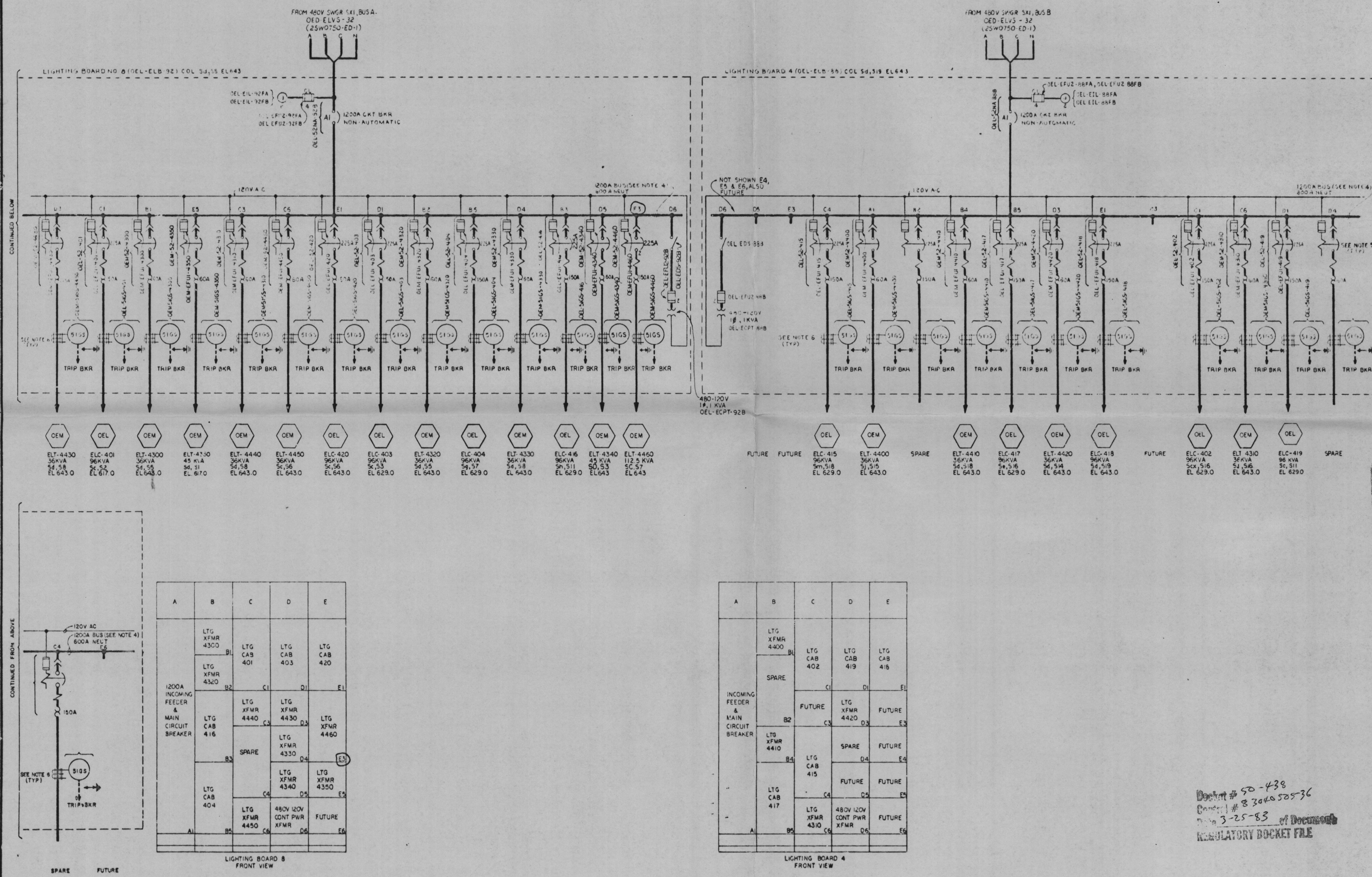
2SW0756-EL-1 | 3 | 88



REFERENCE DRAWINGS

DWG NO.	TITLE
2SW0720-RP-1	PLANT A-C AUX PWR SYS SINGLE LINE
2SW0750-ED-1	480V LC SX1 (OED-ELVS-32)

NOTES:

1. THE FOLLOWING UNIQUE SCHEME SHALL BE USED TO IDENTIFY THE LIGHTING BD AND DEVICE DESIGNATIONS

   X XX-XXXX-XXXX-X
   - SEPARATION DESIGNATION (WHERE APPLICABLE)
   - SPECIAL COMPONENT IDENTIFIER (LISTED ON THIS DRAWING WITH DEVICE SYMBOL)
   - COMPONENT FUNCTION DESIGNATION (LISTED ON THIS DRAWING WITH DEVICE SYMBOL)
   - SYSTEM DESIGNATION
   - GENERATION UNIT DESIGNATION

2. LIGHTING CABINET NUMBERS BEGINNING WITH THE NUMBER 0 ARE LOCATED IN THE COMMON PORTION OF THE SERVICE AND OFFICE BUILDING.
3. LIGHTING CABINET LOADS ARE ESTIMATED MAXIMUM DEMAND KVA.
4. THE BOARD BUS IS 3Ø, 4 WIRE HALF NEUTRAL AND ALL LIGHTING CABINETS ARE 3Ø, 4 WIRE 480/277 VOLT.
5. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600V, THERMAL MAGNETIC AND HAVE AN INTERRUPTING RATING OF NOT LESS THAN 25,000A RMS SYMMETRICAL AT 480 VOLTS. ALL CIRCUIT BREAKERS ARE 100A FRAME WITH SHUNT TRIP EXCEPT AS NOTED. (SHUNT TRIP SHOULD BE 55% MIN. PICKUP VOLTAGE.)
6. THE GROUND FAULT PROTECTION (GFP) SYSTEM SHALL CONSIST OF A GROUND SENSOR C.T. ENCIRCLING ALL PHASE CONDUCTORS TO BE PROTECTED, INCLUDING NEUTRAL IF USED, AND SHALL BE CONNECTED TO A SOLID STATE GROUND SENSOR RELAY WHICH INITIATES TRIPPING OF THE CIRCUIT BREAKER.

   GFP FOR INDIVIDUAL LIGHTING EQUIPMENT FEEDERS SHALL BE ADJUSTABLE FROM 200 TO 1200A.
   TIME ADJUSTMENT SHALL BE PROVIDED INSTANTANEOUS TO 0.5 SECONDS.
7. LIGHTING BOARDS PROVIDED ON TVA CONTRACT 76K5-861242.

SYMBOLS:
(XXX) - - - -UNIT AND SYSTEM DESIGNATION

PRC APERTURE CARD.

REV NO.	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPR
7	SI	3-5-82		LAL							
	ECN-SI CHANGES PEP FOR E-2286 NO PHYSICAL WORK REQUIRED										
6	722		TEM	LAL							
	ECN-722 ADD LIGHTING XFMR FOR GATEHOUSE ADDITION, MINOR CHGS										
5	450,SI			MLP							
	ECN-450 ADD BKRS FOR LIGHTING CENTRAL ALARM STATION AND ASSEMBLY AREA ECN-SI MINOR CHANGES										
4	334	12-6-77	DS	TLB							
	UPDATED TO SHOW LATEST COMPARTMENT ASSIGNMENTS AND VENDOR AS CONSTRUCTED CHANGES										
3	60	7-2-76		NS	MLF						
	REV TO SHOW LATEST EQPT CHANGES. EXTENSIVE REVISIONS MADE TO COMPONENT UNID, FOR CLARITY THESE CHANGES HAVE NOT BEEN CIRCLED.										
2	20,SI	4-3-75		DD							
	REMOVED CURRENT LIMITING REACTOR LB4, MINOR CHANGES										
1	12,20	10-10-74				JEB					
	CHANGED LTG SYS FROM 208/120V TO 480/277V GROUNDED WYE										

DSGN H.B. BOUNDS
DRWN R. SPENCER
CHKD R.M. SLATER
SUPV R.M. SLATER
INSP
ENGINEER

SERVICE & OFFICE BUILDING

UNITS 1 & 2

SINGLE LINE 480/277V LIGHTING BOARDS 4&8 OEL-ELB-88 & 92

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED | RECOMMENDED | APPROVED

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

KNOXVILLE 2-19-74 | 88 | C | 2SW0756-EL-1 R7

45W0756-4

RECORD DRAWING AS CONSTRUCTED

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

PRINTS REQD-R 7