88 | E | SGW0747-EL-12

480V LV SWGR 1XA1 1ED-ELVS-14E2

480V AC LIGHTING BOARD 5 (COMPARTMENTS)
OEL-ELB-89

NOTES:
1. FOR GENERAL NOTES AND SYMBOLS SEE DWG SGW0747-EL-01.
2. BRANCH FEEDERS FROM 480Y/277V LTG CABINETS (SHOWN WITH ⁽²⁾) TO 480-208Y/120V LTG XFMRS ARE SHOWN ON SHEET NO. 13.

480V AC BUS
A B C N
10A
GFP SENSOR
125V DC CONT. PWR
REF: SCHEM DWG NO. 1245F04 DET. J
CONNECTION DWG NO. 1245F37
TOC
1200A
OEL-EFU3-89AA
OEL-52-89A
INSPECTION
SHUNT TRIP
52a
52b
OEL-EFU2-89AB
GFP SENSOR & TEST PNL
CURRENT MONITOR
9A 9B 9C N
2 CABLES PER Ø AND NEUTRAL
OEL-ECA4-58
OEL ECA4-59

COMPT OEL-ELB-89AI
TYPICAL 6 L NO
REF: SGW0747-RP-1
4 A B C
3A(TYP)
OEL-EFU2-89FA
OEL-EIL-89FA
OEL-EFU2-89FB
OEL-EIL 89FB
600 A NON-AUTO
OEL-52NA 89F

BKR POSITION
TOC 52a
E24-7 E22-2
OIS-ECA2-633
3-16-2
48V DC
SEAMS MPX
IIS-IMUX-109
LOCATED IN CAB.
IIK-IMXT-002
REF: SGW0640-IS-01

COMPT C1 SEE DETAIL I SHEET NO. 1
C1-1 SEE DET A THIS SHEET C1-3
OEM-51GS-7200
OEM-52-7200
GROUND SENSOR
OEL-ECA4-60
480-208Y/120V LTG XFMR 7200
OEL-ELC-7200
OEL-ECA4-61
OEM-52-7205
208Y/120V LTG CAB. OEL-ELC-7205 REF: 5GB0416-EM

COMPT B1 SEE DETAIL I SHEET NO. 1
B1-1 SEE DETAIL A THIS SHEET B1-3
OEL-51GS-710
OEL-52-710
GROUND SENSOR
OEL-ECA4-72
480Y/277V LTG CAB. OEL-ELC-710 REF: 5TB0416-EL

SEE NOTE 2

COMPT B4 SEE DETAIL I SHEET NO. 1
B4-1 SEE DETAIL A THIS SHEET B4-3
1EL-51GS-100
1EL52-100
GROUND SENSOR
1EL-ECA4-82
480Y/277V LTG CAB 1EL-ELC-100 REF 5TB0412-EL

COMPT C4 SEE DETAIL I SHEET NO. 1
C4-1 SEE DETAIL A THIS SHEET C4-3
2EL-51GS-201
2EL-52-201
GROUND SENSOR
2EL-ECA4-85
480Y/277V LTG CAB 2EL-ELC-201 REF 5TB0416-EL

COMPT B3 SEE DETAIL I SHEET NO. 1
B3-1 SEE DETAIL A THIS SHEET B3-3
1EL-51GS-101
1EL52-101
GROUND SENSOR
1EL-ECA4-79
480Y/277V LTG CAB 1EL-ELC-101 REF 5TB0416-EL

COMPT C3 SEE DETAIL I SHEET NO. 1
C3-1 SEE DETAIL A THIS SHEET C3-3
1EL-51GS-102
1EL-52-102
GROUND SENSOR
1EL-ECA4-85
480Y/277V LTG CAB 1EL-ELC-102 REF 5TB0416-EL

COMPT B2 SEE DETAIL I SHEET NO. 1
B2-1 SEE DETAIL A THIS SHEET B2-3
2EL-51GS-200
2EL 52-200
GROUND SENSOR
2EL-ECA4-79
480Y/277V LTG CAB 2EL-ELC-200 REF 5TB0412-EL

COMPT C2 SEE DETAIL I SHEET NO. 1
C2-1 SEE DETAIL A THIS SHEET C2-3
2EL-51GS-202
2EL-52-202
GROUND SENSOR
2EL-ECA4-82
480Y/277V LTG CAB 2EL-ELC-202 REF 5TB0416-EL

480V AC BUS
A B C N
OEL-EDS-89B
6A(TYP)
OEL-EFU2-89B
480-120V 1ø, 1KVA OEL-ECPT-89B
B6-5
B6-1
TYPICAL 5B01/5B02 REF 5GW0747-RP-2
ELJ1
ELJ2
5A (TYP)
SPARE EFU1-
C5-1 ELJ17
C4-1 ELJ15
C3-1 ELJ13
C2-1 ELJ11
C1-1 ELJ9
B4-1 ELJ7
B3-1 ELJ5
B2-1 ELJ3
B1-1
2EL-EFU1-201
1EL-EFU1-102
2EL-EFU1-202
OEM-EFU1-7200
1EL-EFU1-100
1EL-EFU1-101
2EL-EFU1-200
OEL-EFU1-710
GROUND RELAY
TYPICAL
52a
SHUNT TRIP
C5-3 C4-3 C3-3 C2-3 C1-3 B4-3 B3-3 B2-3 B1-3
ELJ18 ELJ16 ELJ14 ELJ12 ELJ10 ELJ8 ELJ6 ELJ4
DETAIL A

480V LIGHTING BOARD FEEDERS TO 480Y/277V LTG CABINETS AND TO 208Y/120V LIGHTING SYSTEM

PRC APERTURE CARD

Unit # 50-438
Const. # 83405036
Date 3-25-83
of Documents
REGULATORY DOCKET FILE

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	NSP	SUBM	RECM	APPD
2	1344										
1	650, SI										

ADDED LTG XFMR 7200
ADDED LTG CAB. 710, REMOVED EL B COL, MADE MINOR CHANGES.

DSGN RJ Turner
DRWN Phyllis Estes
CHKD W.D. Hill
SUPV W.D. Hill
INSP
ENGINEER W.L. Abbey

SCALE: EXCEPT AS NOTED

GENERAL
UNITS 1&2

WIRING DIAGRAM NORMAL AC LIGHTING FEEDERS

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
N

SUBMITTED	RECOMMENDED	APPROVED
W.L. Abbey	[illegible]	R.M. Hughes

KNOXVILLE 2-1-78 | 88 | E | 5GW0747-EL-12 R2

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE

PRINT
SIZE