480V LV SWGR 2XA2 2ED-ELVS-18D4 EL 669 COL A8,U

480V AC BUS

REF
SCHEM DWG NO. 1245F04 DET. J
CONNECTION DWG NO. 1245F75

10A
GFP SENSOR
125V DC CONT PWR
TOC
1200A
OEL-EFU3-91AA
OEL-52-91A
SHUNT TRIP
52a
52b
AMPTECTOR
OEL-EFU2-91AB
10A
GFP SENSOR & TEST PNL
CURRENT MONITOR

BKR POSITION
TOC
52a
D44-7
D42-2
OIS-ECA2-631
2-09
48V DC
AM
AD-411

3 CABLES PER Ø AND NEUTRAL
OEL-ECA4-38
OEL-ECA4-39
OEL-ECA4-40

SEAMS MDX
IIS-IMUX-103
LOCATED IN CAB.
IIX II-010
REF SGW0640-IS-01
EL 627 COL C6,P

COMPT OEL-ELB-91A1
TYPICAL 6LNO
REF SGW0747-RP-1

3A (TYP)
OEL-EFU2-91FA
OEL-EIL-91FA
OEL-EFU2-91FB
OEL-EIL-91FB
400A
NON-AUTO
OEL-52V4-91F

480V AC BUS

480V AC
LIGHTING BOARD 7 (COMPARTMENTS)
OEL-ELB-91
EL 610 COL A7,R

NOTES
1. FOR GENERAL NOTES AND SYMBOLS SEE DWG SGW0747-EL-01
2. BRANCH FEEDERS FROM 480Y/277V LTG CABINETS (SHOWN WITH *) TO 480-208Y/120V LTG TRANSFORMERS ARE SHOWN ON SHEET NO. 9

COMPT B3 SEE DETAIL 1 SHEET NO. 1 — 2EM-51GS-2500 — 2EM-52-2500 — GROUND SENSOR — 2EL-ECA4-60 — 480-208Y/120V LTG XFMR 2EM-ELT-2500 EL.590 COL A10,S — 2EL-ECA4-61 — 2EM-52-250F — 208Y/120V LTG CAB 2EM-ELC-2500 COL A10,S REF SABG412-EM

COMPT B2 SEE DETAIL 1 SHEET NO. 1 — 2EL-51GS-230 — 2EL-52-230 — GROUND SENSOR — 2EL-ECA4-57 — 480Y/277V LTG CAB 2EL-ELC-230 EL 610 COL C10,M REF SABG414-EL

COMPT C2 SEE DETAIL 1 SHEET NO. 1 — 1EL-51GS-130 — 1EL-52-130 — GROUND SENSOR — 1EL-ECA4-62 — SEE NOTE 2 — 480Y/277V LTG CAB 1EL-ELC-130 EL 610 COL C4,M REF SABG414-EL

COMPT D3 SEE DETAIL 1 SHEET NO. 1 — OEM-51GS-2630 — OEM-52-2630 — GROUND SENSOR — OEL-ECA4-43 — 480-208Y/120V LTG XFMR OEM-ELT-2630 EL 590 COL A7,S — OEL-ECA4-44 — OEM-52-263F — 208Y/120V LTG CAB OEM-ELC-2630 EL 590 COL A7,S REF SABG412-EM

COMPT B4 SEE DETAIL 1 SHEET NO. 1 — 1EL-51GS-153 — 1EL-52-153 — GROUND SENSOR — 1EL-ECA4-54 — 480Y/277V LTG CAB 1EL-ELC-153 EL 610 COL A1,S REF SABG414-EL

COMPT D2 SEE DETAIL 1 SHEET NO. 1 — 2EL-51GS-253 — 2EL-52-253 — GROUND SENSOR — 2EL-ECA4-62 — 480Y/277V LTG CAB 2EL-ELC-253 EL 610 COL A13,R REF SABG414-EL

COMPT C3 SEE DETAIL 1 SHEET NO. 1 — 1EM-51GS-1500 — 1EM-52-1500 — GROUND SENSOR — 1EL-ECA4-65 — 480-208Y/120V LTG XFMR 1EM-ELT-1500 EL 590 COL A5,S — 1EL-ECA4-66 — 1EM-52-150F — 208Y/120V LTG CAB 1EM-ELC-1500 EL 590 COL A5,S REF SABG412-EM

COMPT B1 SEE DETAIL 1 SHEET NO. 1 — 2EL-51GS-251 — 2EL-52-251 — GROUND SENSOR — 2EL-ECA4-54 — 480Y/277V LTG CAB 2EL-ELC-251 EL 610 COL A10,S REF SABG414-EL

COMPT C1 SEE DETAIL 1 SHEET NO. 1 — 1EL-51GS-151 — 1EL-52-151 — GROUND SENSOR — 1EL-ECA4-59 — 480Y/277V LTG CAB 1EL-ELC-151 EL 610 COL A4,R REF SABG414-EL

COMPT D1 SEE DETAIL 1 SHEET NO. 1 — OEM-51GS-2520 — OEM-52-2520 — GROUND SENSOR — OEL-ECA4-41 — 480-208Y/120V LTG XFMR OEM-ELT-2520 EL 590 COL A7,S — OEL-ECA4-42 — OEM-52-252F — 208Y/120V LTG CAB OEM-ELC-2520 EL 590 COL A7,S REF SABG414-EM

OEL-EDS-91B
6A (TYP)
OEL-EFU2-91B
480-120V 1Ø, 1KVA OEL-ECPT-91B
TYPICAL SB01/SB02 REF SGW0747-RP-2
ELJ1
ELJ2
5A (TYP)
OEM-EFU1-2630
2EL-EFU1-253
OEM-EFU1-2520
SPARE EFU1-
1EM-EFU1-1500
1EL-EFU1-130
1EL-EFU1-151
SPARE EFU1-
1EL-EFU1-153
2EM-EFU1-2500
2EL-EFU1-230
2EL-EFU1-251
GROUND RELAY
TYPICAL
52a
SHUNT TRIP
DETAIL A

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

PRC APERTURE CARD

Doc. # 50-438
Contrl # 8304050536
Date 3-25-83
INSTALLATION PACKAGE FILE

CHANGE SEAMS POINT NO. & ADD REF DWG SHEET NO.

REV NO	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	DUBL	RECM	APPR

DSGN R.E. Hyde
DRWN S.F. Estes
CHKD
SUPV
INSP
ENGINEER J.R. Alldredge

GENERAL
UNITS 1 & 2

WIRING DIAGRAM
NORMAL AC
LIGHTING FEEDERS

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED J.R. Alldredge — RECOMMENDED — APPROVED

KNOXVILLE 2-7-78 | 88 | E | 5GW0747-EL-08 R1

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

PRINTS REQD-R
PROJ DWG SIZE