480V LV SWGR 1XA3 1ED-ELVS-19D3

480V AC BUS

REF
SCHEM DWG NO. 1245F04 DET J
CONNECTION DWG NO. 1245F26

10A
GFP SENSOR
125V DC CONT PWR
TOC
OEL-EFU3-90AA
12GCA
OEL-52-90A
SHUNT TRIP
52a
52a
52b
AMPTECTOR
OEL-EFU2-90AB
10A
GFP SENSOR TEST PNL
CURRENT MONITOR

BKR POSITION
TOC
52a
D34-7
D32-2
OIS-ECA2-630
2-D2
48V DC
2N
A0309

3 CABLES PER Ø AND NEUTRAL
OEL-ECA4-30
OEL-ECA4-31
OEL-ECA4-32

SEAMS MPR
OIS-TMUX-295
LOCATED IN CAB.
OIX-TMEA-006
REF: SGW0640-IS-01

COMPT OEL-ELB-90AI
TYPICAL 6 L.NO
REF: SGW0747-RP-1

34(TYP)
OEL-EFU2-90FA
OEL-EIL-90FA
OEL-EFU2-90FB
OEL-EFU2-90FB
1200A NON-AUTO OEL-52N4-90F

480V AC BUS

480V AC
LIGHTING BOARD 6 (COMPARTMENTS)
OEL-ELB-90

COMPT C2 SEE DETAIL 1 SHEET NO. 1
2EM-51GS-2810
2EM-52-2810
GROUND SENSOR
2EL-ECA4-39
480-208Y/120V LTG XFMR 2EM-ELT-2310
2EL-ECA4-40
2EM-52-281F
208Y/120V LTG CAB 2EM-ELC-2810
REF SRB0418-EM

COMPT B5 SEE DETAIL 2 SHEET NO. 1
2EM-51GS-2820
2EM-52-2820
2EM-EFU3-2820 GROUND SENSOR
2EL-ECA4-47
PRI CONT PKG 2NE-EPEM-039
(1WO)
(5WO)
(26WO)
2EL-ECA4-48
480-208Y/120V LTG XFMR 2EM-ELT-2820
2EL-ECA4-49
2EM-52-282F
208Y/120V LTG CAB 2EM-ELC-2820
REF SRB0418-EM

COMPT F1 SEE DETAIL 1 SHEET NO. 1
OEM-51GS-2620
OEM-52-2620
GROUND SENSOR
OEL-ECA4-33
480-208Y/120V LTG XFMR OEM-ELT-2620
OEL-ECA4-34
OEM-52-262F
208Y/120V LTG CAB OEM-ELC-2620
REF SRB0416-EM

COMPT C4 SEE DETAIL 2 SHEET NO. 1
2EM-51GS-2830
2EM-52-2830
2EM-EFU3-2830 GROUND SENSOR
2EL-ECA4-44
PRI CONT PKG 2NE-EPEM-039
(1WO)
(5WO)
(26WO)
2EL-ECA4-45
480-208Y/120V LTG XFMR 2EM-ELT-2830
2EL-ECA4-46
2EM-52-283F
208Y/120V LTG CAB 2EM-ELC-2830
REF SRB0418-EM

COMPT B2 SEE DETAIL 1 SHEET NO. 1
2EL-51GS-231
2EL-52-231
GROUND SENSOR
SEE NOTE 2
2EL-ECA4-36
480Y/277V LTG CAB. 2EL-ELC-231
REF SCB0416-EL

COMPT B3 SEE DETAIL 2 SHEET NO. 1
2EM-51GS-2870
2EM-52-2870
2EM-EFU3-2870 GROUND SENSOR
2EL-ECA4-41
PRI CONT PKG 2NE-EPEM-039
(1WO)
(5WO)
(26WO)
2EL-ECA4-42
480-208Y/120V LTG XFMR 2EM-ELT-2870
2EL-ECA4-43
2EM-52-287F
208Y/120V LTG CAB 2EM-ELC-2870
REF SRB0420-EM

COMPT B1 SEE DETAIL 1 SHEET NO. 1
1EL-51GS-131
1EL-52-131
GROUND SENSOR
1EL-ECA4-36
480Y/277V LTG CAB. 1EL-ELC-131
REF SCB0416-EL

COMPT C1 SEE DETAIL 1 SHEET NO. 1
OEM-51GS-2540
OEM-52-2540
GROUND SENSOR
OEL-ECA4-35
480-208Y/120V LTG XFMR OEA-ELT-2540
OEL-ECA4-36
2EM-52-254F
208Y/120V LTG CAB OEM-ELC-2540
REF SRB0416-EM

LIGHTING BOARD 6 COMPARTMENTS CONTINUED ON DWG SGW0747-EL-07

OEL-EDS-90B
6A(TYP)
OEL-EFU2-90B
D6-5
D6-1
480-120V 1Ø, 1KVA OEL-ECPT-90B
ELJ1
ELJ2
TYPICAL SB01/3802 REF: SGW0747-RP-2

5A (TYP)
1EM-EFU1-1630
2EM-EFU1-1620
OEM-EFU1-2620
SPARE EFU1-
2EM-EFU1-1830
2EM-EFU1-2640
2EM-EFU1-2690
1EM-EFU1-1820
1EM-EFU1-1870
1EM-EFU1-1810
2EM-EFU1-2830
SPARE EFU1-
2EM-EFU1-2810
OEM-EFU1-2540
2EM-EFU1-2820
2EM-EFU1-2870
2EL-EFU1-231
1EL-EFU1-131
30 GROUND RELAY
TYPICAL
52a
SHUNT TRIP

DETAIL A

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

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 7.

PRC APERTURE CARD

Docket # 50-438
Docket # 50-439
Date 3-25-83 of Document
REGULATORY DOCKET FILE

REV NO.	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	REP	SUBM	RECM	APPR
2	S1	7-7-88									
CHANGED PEN WIRE NO, REMOVED EL & COL.											
1	S1	12-15-87									
ADDED REF DWG SHEET NO.											

DSGN B.B. Mayo
DRWN S.A. Fisher
CHKD
SUPV W.R. Stevens
INSP
ENGINEER W.R. Alderson

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.R. Alderson		E.M. Hodges
KNOXVILLE 2-7-78	88 E SGW0747-EL-06 R2	

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE
DESIGN PROJECT MANAGER

PRINTS REQD-A__ BR__ PROJ__
DWG SIZE: F H
HE HG HD HF SW SA