480V LV SWGR 1XA2 1ED-E1VS-18C1 EL 669 COL A7,V

480V AC
LIGHTING BOARD 2(COMPARTMENTS)
OEL-ELB-86
EL 669 COL A6,R

NOTES
1. FOR GENERAL NOTES AND SYMBOLS SEE DWG 5GW0747-EL-01.
2. BRANCH FEEDERS FROM 480Y/277V LTG CABINETS (SHOWN WITH *) TO 480-208Y/120V LTG TRANSFORMERS ARE SHOWN ON SHEET NO. 3.

480V AC BUS
REF. # SCHEM DWG NO. 1245F04 SET J
# CONNECTION DWG NO. 1245F60
10A
GFP SENSOR
125V DC CONT PWR
TOC
1200A
OEL-EFU3-86AA
OEL-52-86A
ST SHUNT TRIP
52a
52b
DETECTOR
OEL-EFU2-86AB
10A
GFP SENSOR & TEST PNL
CURRENT MONITOR
2 CABLES PER Ø AND NEUTRAL
OEL-ECA4-1
OEL-ECA4-2
COMPT OEL-ELB-86AI
TYPICAL 6LNO
REF: SGW0747-RP-1
3A(TYP)
OEL-EFU2-86FA
OEL-EIL-86FA
OEL-EFU2-86FB
OEL-EIL-86FB
800A NON-AUTO OEL-52NA-86F
480V AC BUS

8KR POSITION
TOC
52a
C14-7
C12-2
OIS-ECA2-628
48V DC
2-02
AM
AC273
SEAMS MPT
OIS-IMUX-134 LOCATED IN CAB. OIX-IMXA-003
REF: 58W0640-I3-01
EL 669 COL A7,T

SEE NOTE 2
COMPT B6 SEE DETAIL 1 SHEET NO. 1
B6-1 SEE DETAIL A THIS SHEET
B6-3
1EL-51GS-159
1EL-52-159
GROUND SENSOR
1EL-ECA4-6
480Y/277V LTG CAB. 1EL-ELC-1590 EL 669 COL A6,R REF: 5480420-EL

COMPT C6 SEE DETAIL 1 SHEET NO. 1
C6-1 SEE DETAIL A THIS SHEET
C6-3
OEM-51GS-2700
OEM-52-2700
GROUND SENSOR
OEL-ECA4-15
480-208Y/120V LTG XFMR EL 669 COL A8,X
OEL-ECA4-16
OEM-52-270F
208Y/120V LTG CAB. OEM-ELC-2700 EL 669 COL A7,X REF: 5480420-EM

COMPT B5 SEE DETAIL 1 SHEET NO. 1
B5-1 SEE DETAIL A THIS SHEET
B5-3
2EL-51GS-257
2EL-52-257
GROUND SENSOR
2EL-ECA4-2
480Y/277V LTG CAB. 2EL-ELC-2570 EL 669 COL A9,R REF: 5480420-EL

COMPT C4 SEE DETAIL 1 SHEET NO. 1
C4-1 SEE DETAIL A THIS SHEET
C4-3
OEM-51GS-2580
OEM-52-2580
GROUND SENSOR
OEL-ECA4-13
480-208Y/120V LTG XFMR EL 669 COL A8,X
OEL-ECA4-14
OEM-52-258F
208Y/120V LTG CAB. OEM-ELC-2580 EL 669 COL A8,X REF: 5480420-EM

COMPT B4 SEE DETAIL 1 SHEET NO. 1
B4-1 SEE DETAIL A THIS SHEET
B4-3
1EL-51GS-157
1EL-52-157
GROUND SENSOR
1EL-ECA4-1
480Y/277V LTG CAB. 1EL-ELC-1570 EL 669 COL A9,R REF: 5480420-EL

COMPT B1 SEE DETAIL 1 SHEET NO. 1
B1-1 SEE DETAIL A THIS SHEET
B1-3
OEM-51GS-1580
OEM-52-1580
GROUND SENSOR
OEL-ECA4-11
480-208Y/120V LTG XFMR EL 669 COL A9,X
OEL-ECA4-12
OEM-52-158F
208Y/120V LTG CAB. OEM-ELC-1580 EL 669 COL A8,X REF: 5480420-EM

COMPT B2 SEE DETAIL 1 SHEET NO. 1
B2-1 SEE DETAIL A THIS SHEET
B2-3
2EL-51GS-233
2EL-52-233
GROUND SENSOR
2EL-ECA4-1
480Y/277V LTG CAB. 2EL-ELC-2330 EL 669 COL A9,M REF: 5480420-EL

COMPT C2 SEE DETAIL 1 SHEET NO. 1
C2-1 SEE DETAIL A THIS SHEET
C2-3
2EL-51GS-259
2EL-52-259
GROUND SENSOR
2EL-ECA4-7
480Y/277V LTG CAB. 2EL-ELC-2590 EL 669 COL A13 R REF: 5480420-EL

COMPT C3 SEE DETAIL 1 SHEET NO. 1
C3-1 SEE DETAIL A THIS SHEET
C3-3
OEL-51GS-264
OEL-52-264
GROUND SENSOR
OEL-ECA4-3
480Y/277V LTG CAB. OEL-ELC-2640 EL 669 COL A7,R REF: 5480420-EL

COMPT C1 SEE DETAIL 1 SHEET NO. 1
C1-1 SEE DETAIL A THIS SHEET
C1-3
OEM-51GS-1610
OEM-52-1610
GROUND SENSOR
OEL-ECA4-9
480-208Y/120V LTG XFMR EL 669 COL A7,T
OEL-ECA4-10
OEM-52-161F
208Y/120V LTG CAB. OEM-ELC-1610 EL 669 COL A7,T REF: 5480422-EM

480V AC BUS
OEL-EOS-86A
6A(TYP)
OEL-EFU2-86B
480-120V 15.1KVA OEL-ECPT-86B
TYPICAL 5801/5802 REF 5GW0747-RP-2
C6-5
C6-1
ELJ1
ELJ2
5A (TYP)
SPARE EFU1-
OEM-EFU1-2700
OEM-EFU1-2580
OEL-EFU1-264
2EL-EFU1-259
OEM-EFU1-1610
1EL-EFU1-159
2EL-EFU1-257
1EL-EFU1-157
SPARE EFU1-
2EL-EFU1-233
OEM-EFU1-1580
GROUND RELAY
52a
ST SHUNT TRIP
TYPICAL
DETAIL A

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

PRC APERTURE CARD

Docket # 50-438
Control # 8304050536
Date 3-23-83 of Document
REGULATORY DOCKET FILE

PRINTS REQD — BR'ST PROJ: 3WD SIZE F H
MECE CEAD COMD MEND MEEN BLPA

| REV NO. | ECN NO. | DATE | DSGN | DRWN | CHKD | SUPV | ENGR | INSP | SUBM | RECM | APPR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S1 | | | | | | | | | | |

ADDED REF DWG SHEET NO.

DSGN RB Mays
DRWN J.A.H.
CHKD J.S. Hill
SUPV J.C. Jones
INSP
ENGINEER W.A. Hodges

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. Whitley | [illegible] | R.M. Hodges |

KNOXVILLE 2-7-78 | 88 | E | 5GW0747-EL-02 Rb

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE