480V LV SWGR 2XA3 2ED-ELVS-19E3

480V AC BUS A B C N

REF:
SCHEM DWG NO. 1245F04 DET J
CONNECTION DWG NO. 1245F32

10A GFP SENSOR 125V DC CONT PWR

TOC R G

1200A OEL-EFU3-87AA OEL-52-87A

SHUNT TRIP ST

52a 52a 52b

AMPTECTION A B C

OEL-EFU2-87AB 10A

GFP SENSOR & TEST PNL CURRENT MONITOR

8XR POSITION TOC 52a E34-7 E32-2

OIS-ECA2-629

48V DC 4-04

SEAMS MPX
IIS-IMUX-109
LOCATED IN CAB.
12I-IMXT-002
REF: 3GW0640-IS-01

3 CABLES PER Ø AND NEUTRAL

OEL-ECA4-19
OEL-ECA4-20
OEL-ECA4-21

COMPT OEL-ELB-87AI
TYPICAL 6LNO
REF 3GW0747-RP-1

3A (TYP)
OEL-EFU2-87FA OEL-EIL-87FA
OEL-EFU2-87FB OEL-EIL-87FB

1200A
N/N-AUTO
OEL-52NA-87F

480V AC
LIGHTING BOARD 3 (COMPARTMENTS)
OEL-ELB-87

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.5.

SEE NOTE 2

COMPT B5 SEE DETAIL 1 SHEET NO. 1 — B5-1 (SEE DETAIL A THIS SHEET) B5-3 — 2EL-51GS-260 — 2EL-ECA4-22 — 480Y/277V LTG CAB. 2EL-ELC-260 — REF: 5ABD418-EL
2EL-52-260 GROUND SENSOR

COMPT C5 SEE DETAIL 1 SHEET NO. 1 — C5-1 C5-3 — 2EM-51GS-2800 — 2EL-ECA4-25 — 480Y/277V LTG XFMR 2EM-ELT1-2800 — 2EL-ECA4-26 — 2EM-52-280F — 208Y/120V LTG CAB. 2EM-ELC-2800 — REF: 5ABD418-EM
2EM-52-2800 GROUND SENSOR

COMPT B6 SEE DETAIL 1 SHEET NO. 1 — B6-1 B6-3 — 2EL-51GS-232 — 2EL-ECA4-17 — 480Y/277V LTG CAB. 2EL-ELC-232 — REF: 5ABD418-EL
2EL-52-232 GROUND SENSOR

COMPT D1 SEE DETAIL 1 SHEET NO. 1 — D1-1 D1-3 — 1EL-51GS-155 — 1EL-ECA4-22 — 480Y/277V LTG CAB. 1EL-ELC-155 — REF: 5ABD418-EL
1EL-52-155 GROUND SENSOR

COMPT D5 SEE DETAIL 2 SHEET NO. 1 — D5-1 D5-3 — 1EM-51GS-1840 — 1EL-ECA4-27 — 1EM-52-184F (W1, W2, W3) — 1EL-ECA4-28 — 480-208Y/120V LTG XFMR 1EM-ELT1-1840 — 1EL-ECA4-29 — 1EM-52-184F — 208Y/120V LTG CAB. 1EM-ELC-1840 — REF: 5ABD420-EM
1EM-52-1840 EM-EFU3-1840 GROUND SENSOR

COMPT B3 SEE DETAIL 1 SHEET NO. 1 — B3-1 B3-3 — 2EL-51GS-255 — 2EL-ECA4-14 — 480Y/277V LTG CAB. 2EL-ELC-255 — REF: 5ABD418-EL
2EL-52-255 GROUND SENSOR

COMPT C3 SEE DETAIL 1 SHEET NO. 1 — C3-1 C3-3 — 1EL-51GS-160 — 1EL-ECA4-19 — 480Y/277V LTG CAB. 1EL-ELC-160 — REF: 5ABD418-EL
1EL-52-160 GROUND SENSOR

COMPT D3 SEE DETAIL 2 SHEET NO. 1 — D3-1 D3-3 — 2EM-51GS-2840 — 2EL-ECA4-27 — 2EM-52-284F (W1, W2, W3) — 2EL-ECA4-28 — 480-208Y/120V LTG XFMR 2EM-ELT1-2840 — 2EL-ECA4-29 — 2EM-52-284F — 208Y/120V LTG CAB. 2EM-ELC-2840 — REF: 5ABD420-EM
2EM-52-2840 2EM-EFU3-2840 GROUND SENSOR

COMPT B1 SEE DETAIL 1 SHEET NO. 1 — B1-1 B1-3 — 1EL-51GS-133 — 1EL-ECA4-13 — 480Y/277V LTG CAB. 1EL-ELC-133 — REF: 5CBD420-EL
1EL-52-133 GROUND SENSOR

COMPT E1 SEE DETAIL 1 SHEET NO. 1 — E1-1 E1-3 — 1EL-51GS-132 — 1EL-ECA4-14 — 480Y/277V LTG CAB. 1EL-ELC-132 — REF: 5CBD418-EL
1EL-52-132 GROUND SENSOR

COMPT C4 SEE DETAIL 1 SHEET NO. 1 — C4-1 C4-3 — 1EM-51GS-1800 — 1EL-ECA4-25 — 480-208Y/120V LTG XFMR 1EM-ELT1-1800 — 1EL-ECA4-26 — 1EM-52-180F — 208Y/120V LTG CAB. 1EM-ELC-1800 — REF: 5ABD418-EM
1EM-52-1800 GROUND SENSOR

480 V AC BUS A B C N

LIGHTING BOARD 3 COMPARTMENTS CONTINUED ON DWG 5GW0747-EL-05

OEL-EDS-87B 6A (TYP) OEL-EFU2-87B — CG-5 CG-1 — 480-120V 1Ø, 1KVA OEL-ECPT-87B — TYPICAL 5801/5802 REF 5GW0747-RP-2

ELJ1 ELJ2

5A (TYP)

F6-1 OEN-EFU1-2560 ELJ43 — F4-1 1EN-EFU1-1360 ELJ41 — F2-1 1EM-EFU1-1850 ELJ39 — E5-1 2EN-EFU1-2850 ELJ37 — E3-1 2EM-EFU1-2860 ELJ35 — E2-1 OEM-EFU1-2670 ELJ33 — E1-1 1EL-EFU1-132 ELJ31 — D5-1 1EM-EFU1-1840 ELJ29 — D3-1 2EM-EFU1-2840 ELJ27 — D2-1 SPARE EFU1- ELJ25 — D1-1 1EL-EFU1-155 ELJ23 — C5-1 2EM-EFU1-2800 ELJ21 — C4-1 1EM-EFU1-1800 ELJ19 — C3-1 1EL-EFU1-160 ELJ17 — C2-1 SPARE EFU1- ELJ15 — C1-1 OEM-EFU1-2660 ELJ13 — B6-1 2EL-EFU1-232 ELJ11 — B5-1 2EL-EFU1-260 ELJ9 — B4-1 SPARE -EFU1- ELJ7 — B3-1 2EL-EFU1-255 ELJ5 — B2-1 SPARE EFU1- ELJ3 — B1-1 1EL-EFU1-133

TYPICAL — 52a ST SHUNT TRIP — 3 GROUND RELAY

F6-3 ELJ44 — F4-3 ELJ42 — F2-3 ELJ40 — E5-3 ELJ38 — E3-3 ELJ36 — E2-3 ELJ34 — E1-3 ELJ32 — D5-3 ELJ30 — D3-3 ELJ28 — D2-3 ELJ26 — D1-3 ELJ24 — C5-3 ELJ22 — C4-3 ELJ20 — C3-3 ELJ18 — C2-3 ELJ16 — C1-3 ELJ14 — B6-3 ELJ12 — B5-3 ELJ10 — B4-3 ELJ8 — B3-3 ELJ6 — B2-3 ELJ4 — B1-3

DETAIL A

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

Docket # 50-438
Control # 8308405036
Date 3-25-83
REGULATORY DOCKET FILE

P.R.C. APERTURE CARD

PRINTS RECD-R
DR
PRO
DWG 5176
F H

REV NO.	ECN NO.	DATE	DSGN	CHKD	SUPV	ENGR	INSP	TECH	APPR
2	SI	7-7-80							
1	SI	10-24-79							

CHANGED PEN WIRE NO., REMOVED EL & CDL
ADDED REF DWG SHEET NO.

DSGN RE
DRWN S.E. FOSTER
CHKD J.C. TAIT
SUPV W.D. WILSON
INSP
ENGINEER W.K. Allen

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.K. Allen		R.M. Harder

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE 2-1-78 | 88 | E | 5GW0747-EL-04 R2

RECORD DRAWING AS CONSTRUCTED