480V LV SWGR 1X82
ELVS-21

COMPT C3

REF:
SCHEM DWG NO 1245F04 DET H
CONNECTION DWG NO 1249F15

10A
EFU2-53AB
EFU3-53AA
52-53A
52a
52b
AMPTECTOR
125V DC CONT PWR
10A
CLOSES WHEN BKR CLOSES
TDC
52a
C34-7
C32-2
1IS-ECA2-861
SEAMS MPT
OTS-2MUX-194
LOCATED IN
01X-1MXA-003
REF: 5GW0340-1S-01
AM
A0325
ECA4-70
ECA4-71

480V MCC 1B4
EMCC-53

SEAMS MPT
1IX-1MUX-104
LOCATED IN
1IX-1MXA-001A
REF: 5GW0640-1S-01
AM
A0033
48V DC
1IS-ECA2-862
6BI-4
6BI-5
27-53B

FOR CKT DETAILS
SEE DETAIL 7
5GWI740-ED-33
LOSS OF VOLTAGE ANNUNCIATION
6BI-6
6BI-7
27-53B

FOR CKT DETAILS
SEE DETAIL 11
5GWI740-ED-34
LOSS OF VOLTAGE OPERATIONS RECORDER
6BI-8
6BI-9
27-53B

CONTACTS CLOSE FOR LOSS OF VOLTAGE CONDITION (TC 5 SEC)

NOTES:
1. FOR GENERAL NOTES AND SYMBOLS SEE DWG 5GWI740-ED-01

COMPT A1
REF: 5GW0747-RP-1
TYP 6INO
3A(TYP)
EFU2-53FA
EFU2-53FB
EIL-53FA
EIL-53FB
NON-AUTO
52NA-53F

COMPT G2
REF: 5GW0747-RP-2
TYP 5B03
6BI4-9
EDJ4
6BI-1
5A
EFU1-53BB
SEAMS
UNIT ANN
6BI-9
6BI-10
TDDE
TC 5 SEC
15A (TYP)
CKT BKR 1
CKT BKR 2
CKT BKR 3
CKT BKR 4
CKT BKR 5
CKT BKR 6
G2-1
G2-2
G2-3
G2-4
G2-5
G2-6
SEE MCC CKT SCHEDULE FOR BKR ASSIGNMENTS
OPT FOR FUSE COMPT REF DWG 5GW0747-RP-11
G2-N1
G2-N2
G2-N3
G2-N4
G2-N5
G2-N6
GROUNDED NEUTRAL BUS
COMPT G1
REF: 5GW0747-RP-2
TYP 5B04
EDJ5
6BI4-N6
EDJ2
120VAC
EDJ3
6BI4-N1
15A(TYP)
EFU2-53BA
480-120 V.
EOS-53B
ECPT-53B
COMPT G5
REF: 5GW0747-RP-2
TYP 5B01/5B02

6BI4-9
EDJ6
F1-1
5A
EFU1-53BC
50GS-53B
GROUND RELAY GRM-FC
SEE ZONE F7
COMPT F1
REF: 5GW0747-RP-2
TYP 5B07
50GX-53B
F1-3
EDJ7
6BI4-N5
F1-9
F1-7
F1-15
F1-11
F1-17
52-004 SHUNT TRIP
52-004 SHUNT TRIP
DF1-10
DF1-12
DF1-18
5A
EFU1-004
5A
EFU1-034
500X
F1-8
EDJ8
F3-1
52a
SHUNT TRIP
F3-3
EDJ9
6BI4-N9
506X
F1-7
EDJ10
F3-6
52a
SHUNT TRIP
F3-4
EDJ11
6BI4-N9
SEE ZONE F8
SEE ZONE A6

COMPT L1
REF: 5GW0747-RP-3
TYP 7TP1A
5GGS-005
GROUND SENSOR
EFU3-005A
52-005
T1 250A
T2
T3
PRI CNTMT PEN
INI-EPEN-032
EL 660 AZ 295°
ECRP-005D
EL 594'6" AZ 135°
DETAIL 16*
ECRP-005C
EL 626 AZ 180°
DETAIL 2*
ECRP-005B
EL 625 AZ 223°
DETAIL 2*
ECRP-005A
EL 649 AZ 228°
DETAIL 4*
ECA4-76
ECA4-75
ECA4-74
ECA4-73
ECA4-72
2W01
2W02
2W03
GROUND RELAY GRM-FC
5003-006
EFU1-006B
SEE CIRCUIT ABOVE 5003-006
COMPT L2
EFU3-006A
52-006
PRI CNTMT PEN
INI-EPEN-031
EL 684 AZ 5°
ECRP-006C
EL 673 AZ 225°
DETAIL 16*
ECRP-006B
EL 703 AZ 180°
DETAIL 16*
EJB-28
EL 684 AZ 240°
DETAIL 1*
ECRP-006A
EL 703 AZ 0°
DETAIL 16*
EJB-27
EL 684 AZ 295°
DETAIL 1*
ECA4-82
ECA4-81
ECA4-80
ECA4-79
ECA4-78
ECA4-77
480V POWER RECEPTACLES
* SEE DETAILS ON DWG 5GWI740-ED-33

COMPT F1
REF: 5GW0747-RP-2
TYP 5B07
FOR SHUNT TRIP SEE ZONE E8
FOR SHUNT TRIP SEE ZONE E7
52-004
52-034
COMPT F3 (L)
COMPT F3 (R)
REF: 5GW0747-RP-3
TYP 7TS1A
ECA4-83
ECA4-84
ECA4-85
ECA4-86
ECA4-87
ECA4-88
ECA4-89
ECA4-90
ECA4-91
ERCP-004A
EL 689 AZ 333°
DETAIL 2*
ERCP-004B
EL 672 AZ 330°
DETAIL 2*
ERCP-004C
EL 649 AZ 330°
DETAIL 2*
ERCP-004D
EL 625 AZ 328°
DETAIL 16*
ERCP-034D
EL 874 AZ 315°
DETAIL 2
ERCP-034C
EL 874 AZ 225°
DETAIL 16
ERCP-034A
EL 874 AZ 45°
DETAIL 2*
ERCP-034B
EL 874 AZ 135°
DETAIL 16*
EJB-29
EL 874 AZ 21*
DETAIL 1*
480V PWR RECEPTACLES
SEE DETAILS ON DWG 5GWI740-ED-35

PRC APERTURE CARD
Doc. # 50-438
Control # 8306050536
Date 5-25-83
REGULATORY DOCKET FILE

NO	BY	DATE	DESCRIPTION
4	SI	7-7-80	CHANGED PEN. WERE NUMBERS.
3	BSB, SI		RELOCATED SEAMS POINT A0325, REMOVED COL. B EL.
2	SI	9-29-79	PEN. SPLICE SYMBOL ADDED
1	SI	4-24-79	CHANGED UNDERVOLTAGE TO LOSS OF VOLTAGE, ADDED REF DWG 3H NO., & ADDED TIME SETTING TO T.O. BLK

DESIGN
DRAWN
CHKD
SUPV
ENGINEER

SCALE: EXCEPT AS NOTED

GENERAL
UNIT 1

SYSTEM SCHEMATIC
480V NORMAL AC
AUX POWER DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
KNOXVILLE	6-16-78	88 E 5GWI740-ED-21 Rev

INSPECTED AND APPROVED FOR ISSUE