480V LV SWGR 1XC1
ELVS-16
EL 649 COL T5,J

COMPT D2
REF:
SCHEM DWG NO. 1245F04 DET H
CONNECTION DWG NO. 1246F11

10A
EFU2-40AB
EFU3-40AA
52-40A
52a
52b
AMPTECTOR
125V DC CONT PWR
10A
CLOSES WHEN BKR CLOSES
TOC
52a
D24-7
D22-2
ECA4-200
ECA4-201
1IS-ECA2-883
SEAMS MPX
1IS-IMUX-107
LOCATED IN
1IX-IMXT-001
EL 649 COL T5,G
REF. 5GW0640-IS-01
48V DC
AM
A0135

480V MCC 1C2
EMCC-40
EL 649 COL T2,E

COMPT A1
REF 5GW0747-RP-1
TYP 6INO
3A(TYP)
EFU2-40FA
EFU2-40FB
EIL-40FA
EIL-40FB
NON-AUTO
52NA-40F

COMPT E1
REF 5GW0747-RP-2
TYP SB06
EB1-9
EDJ4
EB1-1
SEE ZONE D11
5A
EFU1-40BB
27
27E-40B
27X-40BC
27X-40BA
27X-40BB
27E-40BA
27E-40BB
27X INTLK
27E INTLK
BBC CKT I
BBC CKT II
TDOE
SEAMS
ANN
ORN
TC 5 SEC
EB1-10
EB1-11
EB1-3
EB14-N1
EB14-N8
EDJ3
EDJ2
120VAC
EDJ5
SEE ZONE E11
EFU2-40BA
15A(TYP)
105-40B
480-120V
ECPT-40B
COMPT E5
REF: 5GW0747-RP-2
TYP SB01/SB02

250V DC
EB1-11
27X-40BC
27E-40B
TO 1 SEC
CKT I
27X-40BB
TO 5 SEC
EB1-10
250V DC
EB1-17
27X-40BC
27E-40B
TO 1 SEC
CKT II
27X-40BB
TO 5 SEC
EB1-16
BBC RESTART SIGNAL FOR GEN COOLING DECONTIC SEE (5GW1640-TK-4)
BBC RESTART SIGNAL FOR LECONTIC SEE (5GW1640-TC-65)

COMPT E4
REF 5GW0747-RP-2
TYP SB03
15A (TYP)
CKT BKR 1
CKT BKR 2
CKT BKR 3
CKT BKR 4
CKT BKR 5
CKT BKR 6
E2-1
E2-2
E2-3
E2-4
E2-5
E2-6
CKTS FOR FUSE COMPT REF.5GW0747-RP-11
SEE MCC CKT SCHEDULE FOR BKR ASSIGNMENTS
E2-N1
E2-N2
E2-N3
E2-N4
E2-N5
E2-N6
GROUNDED NEUTRAL BUS

COMPT G1
REF:5GW0747-RP-2
TYP SB07
EB14-9
EDJ12
G1-1
5A
EFU1-40BC
50GS-40B
GROUND RELAY GRN-FC
SEE ZONE F7
50GX-40B
50GX
G1-3
EDJ13
EB14-N8
SE-025 SHUNT TRIP
SE-026 SHUNT TRIP
G1-8
G1-15
G1-9
G1-11
G1-10
G1-12
G1-17
G1-18
SEE ZONE G8
SEE ZONE F8
ST
SHUNT TRIP
G3-3
G3-4
EDJ15
EDJ17
EB14-N9
5A
EFU1-025
5A
EFU1-026
50GX
G1-8
G1-7
EDJ14
EDJ16
G3-6
52a
SEE ZONE D3
5A
EFU1-40BD
EB1-12
EB1-13
EB1-14
EB1-15
TURB BLDG WALL SUPPLY FAN INTERLOCKS
EB8-2
EB9-2
EB11-2
EB10-2
SEE ZONE E3
OVT-ERLY-902C
OVT-ERLY-902D
ERLY-408C
ERLY-408D
EB8-1
EB9-1
EB11-1
EB10-1

CONTACTS CLOSE FOR LOSS OF VOLTAGE CONDITION(TC 5 SEC)
27X-40BA
EB1-4
EB1-5
27X-40BA
EB1-6
EB1-7
27X-40BA
EB1-8
EB1-9
BK
W
1IS-ECA2-884
10
11
12
48V DC
2-108
AM
A0172
SEAMS MPX
1IS-IMUX-109
LOCATED IN
1IX-IMXT-002
EL 649 COL T2,D
REF: 5GW0640-IS-01
LOSS OF VOLTAGE ANNUNCIATION
FOR CKT DETAILS SEE DETAIL 9 5GW1740-ED-33
LOSS OF VOLTAGE OPERATIONS RECORDER
FOR CKT DETAILS SEE DETAIL 10 5GW1740-ED-34

COMPT G1
REF. 5GW0747-RP-2
TYP SB07
50GS-40B
GROUND SENSOR
SEE ZONE E8
FOR SHUNT TRIP SEE ZONE E10
T1
T2
T3
52-026
COMPT G3 (R)
REF: 5GW0747-RP-3
TYP 7TSIA
FOR SHUNT TRIP SEE ZONE E10
52-025
COMPT G3 (L)
480V POWER RECEPTACLES
EJB-22
EL 629, COL T3,M
ECA4-203
ERCP-026A
EL 673, COL T3, M
ECA4-204
ERCP-026B
EL 629, COL T4, M
DETAIL 1*
DETAIL 16*
DETAIL 16*
ECA4-202
EJB-21
EL 649, COL T3,G
ERCP-025B
EL 649, COL T3,G
ERCP-025C
EL 629, COL T3,G
ERCP-025D
EL 604, COL T4,M
DETAIL 1*
DETAIL 4*
DETAIL 2*
DETAIL 16*
ECA4-205
ECA4-206
ECA4-207
ECA4-208
ECA4-209
DETAIL 15*
ERCP-025A
EL 673 COL T3,G
*SEE DETAILS ON DWG 5GW1740-ED-33

NOTES:
1. FOR GENERAL NOTES AND SYMBOLS SEE DWG 5GW1740-ED-01

Docket # 50-438
Control # 8304050536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

NO.	ECN NO.	DATE	DSGN	DFTR	CHKD	SUPV	CMCH	INSP	SUBM	RECM	APPD
2	1820	7 8 79	RCB	MCT	JWS	WLD	WLD	LKS			
ADDED "27X" RELAY TO "BBC RESTART CIRCUIT"											
1	1521, S1	4 26 79	RCB	MCT	JWS	WLD	WLD	LKS			
CHANGED WIRING OF T.D. RLY, CHANGED UNDERVOLTAGE TO LOSS OF VOLTAGE, ADDED REF DWG SH NO. & ADDED TIME SETTINGS TO T.D. RLY.											

DSGN RCB
DRWN MCT
CHKD WLD
SUPV JWS
INSP
ENGINEER WLD
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

SUBMITTED	RECOMMENDED	APPROVED
WLD		

KNOXVILLE 4-16-79

88 E 5GW1740-ED-32 R2

RECORD DRAWING AS CONSTRUCTED

THIS RECORD DRAWING IS UNDER CONFIGURATION CONTROL

INSPECTED AND APPROVED FOR ISSUE

PRINT
SIZE