88 E 5GW2740-EA-02

NOTES:
1. FOR GENERAL NOTES AND REFERENCE DRAWINGS SEE 5GW2740-EA-01.
2. FOR MONITORING SYSTEMS DEVELOPMENT SEE 5GW2740-EA-04.

13.8KV SWGR 2RA NOR SUP CONTROL 2EA-IMIS-211A-A
13.8KV SWGR 2RA BUS TRANSFER 2EA-IMIS-001A-A
13.8KV SWGR 2RA ALT SUP CONTROL 2EA-IMIS-212A-A
5N3-11A
5N3-11B
TRIP
CLOSE
MAN
AUTO
L A N K F

MAIN RELAY BD 2TW-EMRB-029
TRIP AND LOCKOUT OF 500KV SWYD BUS 2 9CW2649-TW-01
MAIN RELAY BD 0XR-EMRB-001
TRIP AND LOCKOUT OF 161KV SWYD BUS
SEE DWG 9CW3621-XR-01
MAIN CONTROL ROOM PANEL 21X-IM-001
SSCS LOGIC CAB 21X-IR-008-A
SSCS TERMINATION CAB 21X-IR-007-A
FOR INTERNAL EQPT SEE 2AW0900-EA-01
ENT A
ENT B
ENT D

6.9KV SWGR 2TA PNL B 2EB-EMVS-038
SEE DWG 5GW2740-EB-07
UNIT SS XFMR 2A DIFF CT'S
MAIN RELAY BD 2XU-EMRB-031
SEE 9CW2651-XU-01 UNIT SS XFMR 2A DIFF RELAYS
RECORDING INSTR BD 0XO-ERIB-004
SEE DWG 9CW0724-XO-01
UNIT SS XFMR 2A WH WATT TOTALIZING MODULE
FOR CKT DETAILS SEE 5GW2640-TC-14
BOP ISOLATORS 21X-ISOL-257-A
INITIATES SWYD UNIT TRIP RLY
48V DC
48 VDC
0-1mA
2TC-ECA2-2000-A
2TC-ECA2-2003-A
6.9KV SWGR 2ETI-A PNL K 2EG-EMVS-06K-A
2ETI-A NOR SUP BKR FAILURE RLY
(K)AJ33
62BF-261-A
(K)AJ34
SEE DWG 5GW2740-EG-10

6.9KV SWGR 2ETI-A PANEL K 2EG-EMVS-06K-A
SEE DWG 5GW2740-EG-10
UNIT SS XFMR 2A DIFF CT
2XU-ECA3-26-P SEE NOTE 9

6.9KV SWGR 2ETI-A PANEL M 2EG-EMVS-06M-A
SEE DWG 5GW2740-EG-10
RSV SS XFMR 2A DIFF CT
2XR-ECA3-26-R SEE NOTE 9

6.9KV SWGR 2TA PANEL D 2EB-EMVS-030
SEE DWG 9GW2740-EB-07
(D)AK20
(D)AK19 62BF-232
2TA ALT SUP BKR FAILURE RLY
2XR-ECA3-33-R
2XR-ECA3-32-R
BOP ISOLATORS 21X-ISOL-257-A
6.9KV SWGR 2ETI-A PANEL M 2EG-EMVS-06M-A
SEE DWG 5GW2740-EG-10
(M)AJ33
62BF-262-A
(M)AJ34
2ETI-A ALT SUP BKR FAILURE RLY
RECORDING INSTR BD 0XO-ERIB-003
SEE DWG 9CW0723-XO-01
RSV SS XFMR 2A WH WATT TOTALIZING MODULE
2XR-ECA2-29
2XR-ECA2-28-A
2XR-ECA2-30-A
2XR-ECA2-31-A
2XR-ECA3-27-R
2XR-ECA3-52-R

6.9KV SWGR 2TA PNL D 2EB-EMVS-030
SEE DWG 5GW2740-EB-07
RSV SS XFMR 2A DIFF CT'S
(D)AK20
(D)AK19
(D)AK22

6.9KV SWGR 2ETI-A PANEL K 2EG-EMVS-06K-A
ECA2-103-A
ECA2-105-A
ECA3-101-A
ECA2-110-A
ECA3-102-A
ECA2-106-A
ECA2-104-A
ECA2-107-A SEE NOTE 9
ECA2-109-A SEE NOTE 9
ECA2-108-A SEE NOTE 9
ECA2-113-P
ECA2-114-R
2XU-ECA3-41-P SEE NOTE 9
2XU-ECA3-27-P SEE NOTE 9
2XU-ECA2-29
2XU-ECA2-28-A
ECA3-140-F NOTE 9
ECA3-141-D NOTE 9
ECA3-111-D NOTE 9
ECA3-112-F NOTE 9

PANEL (C) EMVS-01C
PANEL (G) EMVS-01G
PANEL (E) EMVS-01E
MOUNTED OUTSIDE PANEL (A) EMVS-01A
FOR INTERNAL EQPT SEE 5GW2740-EA-05
13.8KV SWITCHGEAR 2RA EMVS-01
13.8KV SWITCHGEAR 2RA, 2EA-EMVS-01

CONTROL PWR TRANSFER SW 43-018-S
TO RCP BREAKERS
TO SWGR PWR SYS BREAKERS
125V DC

NOR FDR BKR 2EU-72-52A4-F LOCATED ON 125 V CLASS 1E DC PWR DISTRIBUTION PNL 2EU-EDP-52B-F
ALT FDR BKR 2EU-72-50A4-D LOCATED ON 125 V CLASS 1E DC PWR DISTRIBUTION PNL 2EU-EDP-50B-D
NOR FDR BKR 2EU-72-5094-D LOCATED ON 125V CLASS 1E DC POWER DISTRIBUTION PANEL 2EU-EDP-50B-D
ALT FDR BKR 2EU-72-5293-F LOCATED ON 125V CLASS 1E DC POWER DISTRIBUTION PANEL 2EU-EDP-52B-F
125 VDC 30A
125V DC 5BW0625-EU-3
5BW0625-EU-1

REVIEWED
RC(CIVIL) N/A
RE(ELEC)
RM(MECH) N/A

Docket # 50-438
Control # 830405036
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV	ECN NO.	DATE	DSGN	DFTR	CHKD	SUPV	ENGR	W.S.P.	SUPR	RECM	APPR
1	3791	5-31-83									

PROVIDED SEPARATE 125 VDC CONT PWR FOR RCP MOT & OTHER SWGR BOARD FUNCTIONS. ADDED BOP ISOLATOR TERMINAL POINTS & SIGNAL PATHS. MINOR CHG

DSGN
DRWN
CHKD
SUPV
ENGR
W.S.P.
SUPR

SCALE: EXCEPT AS NOTED

GENERAL
UNIT 2

SYSTEM SCHEMATIC 13.8KV NORMAL AC AUX POWER DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED
W.L. Aldridge		R.M. Hodges

KNOXVILLE 1-10-79 | 88 | E | 5GW2740-EA-02 | R1

RECORD DRAWING AS CONSTRUCTED