MAIN CONTROL ROOM PANEL 2IX-IM-001

6.9KV SWGR 2TB NOR SUP CONTROL 2EB-IHIS-241A — 5N3-11A — TRIP / CLOSE — L A N K F

6.9KV SWGR 2TB BUS TRANSFER 2EB-IHIS-004A — 5N3-11B — MAN / AUTO — L A N K F

6.9KV SWGR 2TB ALT SUP CONTROL 2EB-IHIS-242A — 5N3-11A — TRIP / CLOSE — L A N K F

MAIN RELAY BD 0XR-EWRB-006

TRIP AND LOCKOUT OF 161KV SWYD — SEE DWG 9CW0626-XR-0 — LTE-10, LTE-11 — ENT B

ECA2-28 SEE NOTE 7

ECA2-30 SEE NOTE 7

ECA2-29 SEE NOTE 7

ECA2-33-R

G-BK, BK, O-BK, R-BK, O

SSCS LOGIC CAB. 2IX-II-012

MCR J18-L A N K F 28V DC COM

MCR J21-L A N K F 28V DC COM

MCR J19-L A N K F 28V DC COM

FOR INTERNAL EQPT SEE 2TW0900-EB-02

SSCS TERMINATION CAB 2IX-II-013

FOR INTERNAL EQPT SEE 2TW0900-EB-02

TB1881 Y3, TB1882 48V DC COM, SHLD GRD — ENT A

RECORDING INSTR BD 0XO-ER1B-004

SEE DWG 9CW0724-XO-01 — UNIT 55 XFMR 2B WH WATT TOTALIZING MODULE — LTD-11, LTD-10, LTD-12 — ENT B

RECORDING INSTR BD 0XO-ER1B-005

SEE DWG 9CW0725-XO-01 — RSV 55 XFMR 2B WH WATT TOTALIZING MODULE — RTD-4, RTD-5, RTD-6 — ENT A

ELEC CONT BD 0XE-EECB-004

LOAD TAP CHANGER VOLT METER REF DWG 9CW0614-XE05 — LTD-11, LTD-12 — ENT B

2XU-ECA3-51-P

ECA2-19-P

ECA2-20-P

ECA3-21-P

ECA2-22-R

ECA2-23-R

ECA2-24

ECA3-25-R

ECA2-26-R

6.9KV SWGR 2TC PANEL H 2EB-EMVS-05H

SEE DWG 5GW2740-EB-04 — DIFF CT'S ON NOR SUPPLY — A0 B0 C0 — (D)AK28, (D)AK27, (D)AK26, (D)AK25, GRD

ECA3-27

INITIATES SWYD UNIT TRIP RLY

FOR CKT DETAILS SEE 5GW2740-EA-03

UNIT 55 XFMR 2B DIFF RELAYS

AUTO LOAD TAP-CHANGER

120V AC SUPPLY

RSV 55 XFMR 2B DIFF RELAYS

INITIATES RSV 55 XFMR 2B DIFF AUX RLY

2TB NOR SUP BKR (EXT-241) (OUTPUT 0-1141)

2TB ALT SUP BKR (EXT-242) (OUTPUT 0-1141)

CLOSES WHEN 2TB NOR SUP BKR FAILS TO TRIP UNDER FAULT — 628F-241

628F-242 — CLOSES WHEN 2TB ALT SUP BKR FAILS TO TRIP UNDER FAULT

UNIT 55 XFMR 2B DIFF CT'S TO SWYD

RSV 55 XFMR 2B DIFF CT'S TO SWYD

CLOSES WHEN 2TB NOR SUP BKR

OPENS WHEN 2TB NOR SUP VOLTAGE LOW — 27EX-241

CLOSES WHEN 2TB ALT SUP BKR

OPENS WHEN 2TB ALT SUP VOLTAGE LOW — 27EX-242

2TB NOR SUP BKR CLOSE CKT

2TB NOR SUP BKR TRIP CKT

125V DC

CLOSES FOR 2TB MAIN BUS UNDER VOLTAGE FOR 0.5 SEC — 27T1-048

CLOSES WHEN 2TB MAIN BUS BELOW UNDER VOLTAGE SETPOINT — 27R2-048

CLOSES ON SWGR DIFF 86B0-048

NOR SUP OC 86N-241

ALT SUP OC 86A-242

2TB ALT SUP BKR TRIP CKT

2TB ALT SUP BKR CLOSE CKT

125V DC

CLOSES WHEN 2TB ALT SUP BKR (EXT-242)

CLOSES WHEN 2TB ALT SUP BKR CLOSES

2TB BOARD DIFF RELAYS

CONTROL PWR TRANSFER SW 43-048 — LOCATED IN PANEL (D) EMVS-040 — Q11, Q12, Q15, Q16

ECA3-31 SEE NOTE 7

ECA3-32 SEE NOTE 7

NOR FDR BKR 2EU-72-5391 LOCATED ON 125V DC POWER DISTRIBUTION PANEL 2EU-EDP-53C — 125V DC — 30A — REF DWG 5BW0825-EU-4

ALT FDR BKR 2EU-72-52G8 LOCATED ON 125V DC POWER DISTRIBUTION PANEL 2EU-EDP-52C — 125V DC — 30A — REF DWG 5BW0825-EU-3

PANEL (D) EMVS-040

PANEL (B) EMVS-048

FOR INTERNAL EQPT SEE 5GW2740-EB-08

6.9KV SWITCHGEAR 2TB EMVS-04

6.9KV SWGR 2TB, 2EB-EMVS-04

NOTES
1. FOR GENERAL NOTES AND REFERENCE DRAWINGS SEE 5GW2740-EB-01
2. FOR MONITORING SYSTEMS DEVELOPMENT SEE 5GW2740-EB-05

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

PRC APERTURE CARD

REV	ECN NO.	DATE	ORIG	DSGN	CHKD	SUPV	CHKR	ENGR	SUBM	TECH	APPD

DESIGN W.H. Hill — ENGR W.L. Ridley
DRWN B.P. Hastings — CHKD E.M. Gadsden
SUPV L. Verney

SCALE: EXCEPT AS NOTED

GENERAL
UNIT 2

SYSTEM SCHEMATIC 6.9KV NORMAL AC AUX POWER DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
W.L. Ridley	[illegible]	E.M. Gadsden

KNOXVILLE 2-4-83

88 E 5GW2740-EB-03 R0

RECORD DRAWING AS CONSTRUCTED