5AW2731-ED-1 | 3 | 88

1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G

FROM 13.8 KV SWGR 2RB.2EA-ENTS-02 (2AW2720-EA-0)

ELA-23 — EBB-23

3CL 45A — EFU3-23 — TZXB4, ET-23, 13,800-480V 3Ø, 60 HERTZ AA, 100°C RISE, 8.0 % IMPEDANCE

480V SWITCHGEAR 2XB4.2ED-ELVS-23 (SEE NOTE 1)

(ELEV 669 COL T, A19)

CABLE

TEMP > 75°C ALARM

EFU2-23FC 6A — EFU2-23FB 6A — EFU3-23FB 3CL 6A — EFU3-23FC 3CL 6A

EPT-23FA 480-120V 2 KVA — EPT-23FB 480-120V 2 KVA — EPT-23FC 480-120V 2 KVA

EIL-23FA 23FB 23FC

EVT-23F — EAS-23F — EAT-23F — EAM-23F — EVM-23F — EVT-23B — EVT-23A

SHUNT TRIP — 1600A FRAME — 52N-23F — TRIP MAIN SWGR BKR (1600A FR)

52A-23F — ANN — TDE AGASTAT .5 TO 5 SEC — S1

200A LS

EFU2-23BD 6A — EFU2-23BC 6A — EFU2-23BB 6A — EFU2-23BA 6A

27-23B — TDE AGASTAT .5 TO 5 SEC — 27X-23BB

ECPT-23B 480-120V 1Ø XFMR 3 KVA — EFU1-2348 10A — 27A-23B AGASTAT TDE 5-5 SEC

TO BUTTRAMS COOLING FANS — EFU2-23FE 2.5A

B1 1200A BUS B4 — 120VAC — B2 B3

EFU2-59A 2A — 52-54A — 52TX-54A — 600A FRAME — 600A LS

SPARE

ERLY-548D — ANN

52NA-54F — ERLY-548D — SHUNT TRIP — EFU2-548D 5A — EFU2-548A 5A B4

480V MCC 285 (SEE NOTE 1) (ELEV 649, COL U, A19)

CL 3A — EIL-54FA, -54FB — EFU2-54FA, -54FB — 1200A CKT BKR NON-AUTOMATIC 52NA-54F

FROM 125 V DC CLASS 1E PWR DISTR SYS 2EU-EDP-51B-E (6SW0628-EU-B)

125 V DC CONT BELOW

A1 600A BUS B1 A4 600A BUS B4 C1 SPLIT BUS D1 D4 600A BUS E1

ECHE-060 — 125A EFU3-060A — 250A SEE NOTE 3 — 3-5 A — EFU1-060B — 135A — ERLY-548A

ECHE-061 — 125A EFU3-061A — 250A SEE NOTE 3 — 3-5 A — EFU1-061B — 135A — ERLY-548A

ECHE-062 — 125A EFU3-062A — 250A SEE NOTE 3 — 3-5 A — EFU1-062B — 135A — ERLY-548A — ERLY-51BA 6P

ECHE-063 — 125A EFU3-063A — 250A SEE NOTE 3 — 3-5 A — EFU1-063B — 135A — ERLY-548C — ERLY-51BC 6P

ECHE-064 — 125A EFU3-064A — 250A SEE NOTE 3 — 3-5 A — EFU1-064B — 135A — ERLY-548C

ECHE-065 — 125A EFU3-065A — 250A SEE NOTE 3 — 3-5 A — EFU1-065B — 135A — ERLY-548C

ECHE-066 — 125A EFU3-066A — 250A SEE NOTE 3 — 3-5 A — EFU1-066B — 135A — ERLY-548C

SEE NOTE 4, TYPICAL

72 KW — 2NC-EHTR-060 — 2NC-EHTR-061 — 2NC-EHTR-062 — 2NC-EHTR-063 — 2NC-EHTR-064 — 2NC-EHTR-065 — 2NC-EHTR-066

PRESSURIZER HEATER GROUP NO. 1, 2NC-NHTR-042

2NC

480V MCC 285 (SEE NOTE 1) (ELEV 649, COL U, A19)

125V DC CONT FROM ABOVE

E4 F1 F4 G4

ECHE-046 — 125A EFU3-046A — 250A SEE NOTE 3 — 3-5 A — EFU1-046B — 135A — ERLY-548B — ERLY-51BB 6P

ECHE-047 — 125A EFU3-047A — 250A SEE NOTE 3 — 3-5 A — EFU1-047B — 135A — ERLY-548B

ECHE-048 — 125A EFU3-048A — 250A SEE NOTE 3 — 3-5 A — EFU1-048B — 135A — ERLY-548B

ECHE- — 125A EFU3- — 250A SEE NOTE 3 — 3-5 A — EFU1- — 135A

72 KW — 2NC-EHTR-046 — 2NC-EHTR-047 — 2NC-EHTR-048

SPARE

PRESSURIZED HEATER GROUP NO 2, 2NC-NHTR-038

NC

DISC SWITCH — TRANSITION COMPT — T2188 1PNR — AUX PNL — B1 1RST PNL — B2 MAIN BKR — B3 SPARE — B4 TIE TO 480V MCC 285 — ELEV 669, COL T, A19

480V SWGR 2XB4 FRONT VIEW REGN NO 85526

A1 6-FVBB — A4 4-FVNR — B1 4-FVNR — B4 4-FVNR — MAIN BKR — C1 — D1 4-FVNR — D4 4-FVNR — E1 4-FVNR — F1 4-FVNR — G1 FUT — G2 FUT — G3 FUT — G4 4 FVNR SPARE

ELEV 649 COL U, A14

480V MCC 285 FRONT VIEW

REFERENCE DRAWINGS

| DWG NO. | TITLE |
|---|---|
| 2GWOF20-RP-1 | PLANT'S AC AUXILIARY POWER SYSTEM SINGLE-LINE |
| 6GW2740-ED | 480V SWGR 2XB4 SYS SCHEMATIC |
| 2GW0900-** | CONTROL & LOGIC DRAWINGS |

** SYSTEM DESIGNATION

NOTES:

1. 480V MCC PROVIDED ON CONTRACT NO. 76K5-86248. 480V SWGR PROVIDED ON CONTRACT NO. 76K3 85526
2. ALL MOLDED CASE CIRCUIT BREAKERS ARE 3-POLE, 600V, THERMAL-MAGNETIC, AND HAVE AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. ALL MCC BREAKERS ARE 400A FRAME WITH SHUNT TRIP EXCEPT AS NOTED. THE SHUNT TRIP COIL IS CAPABLE OF OPERATING AT 55% OF RATED VOLTAGE. 800A FRAME SIZES HAVE 30,000A RMS SYM INTERRUPTING RATING AT 480V. 1600A FRAME SIZES HAVE 50,000A RMS SYM INTERRUPTING RATING AT 480V.
3. FUSES IN THE POWER CIRCUITS ARE CHASE SHAWMUT AMP TRAP CLASS J (FUSES ARE REQUIRED TO PROVICE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS, NOT FOR CIRCUIT BREAKER PROTECTION.)
4. ALL CONTACTORS ARE PROVIDED WITH 2 ELEC SEPARATE AUXILIARY CONTACTS.
5. ALL CONTROL TRANSFORMERS ARE 1Ø 480-120V WITH GROUNDED SECONDARY. FUSES SHALL BE SIZED TO PROTECT TRANSFORMERS.
6. A 120V RED IND LIGHT IS CONNECTED IN PARALLEL WITH EACH STARTER COIL.
7. EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE NOR, TIE, OR SP CKT BKRS, IS PART OF THE 480V NORMAL AC AUX PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION, ED. THE DEVICE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH 2ED, EXCEPT AS NOTED. ALL OTHER BKRS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNID IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE DWG WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE SWGR COMPARTMENT NO. UNID DESIGNATIONS ARE FORMED AS FOLLOWS USING THE COMPARTMENT NO (XX) AND THE BOARD NO (YY): 2ED-ELVS-YYXX
8. MCC 2B5 IS CLASS 1E, SWGR 2XB4 IS NON-CLASS 1E LOCATED IN A CATEGORY I STRUCTURE
9. RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR TVA APPROVED EQUIVALENT (SEE NOTE 8)

SYMBOLS:

- ▽ - INTERFACE FOR REMOTE CONTROL
- ESI LSIG — SOLID STATE TRIP DEVICE WITH SENSOR RATING (G - GROUND (FAULT CURRENT); L - LONG TIME DELAY (OVERLOAD); S - SHORT TIME DELAY (SELECTIVE TRIP); I - INSTANTANEOUS (FAULT CURRENT))
- * PRIMARY CONTAINMENT PENETRATION
- - INDICATING LIGHT, R = RED, A = AMBER
- - INTERFACE FOR STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYS (SEAMS)
- ⬡ XXX - UNIT AND SYSTEM DESIGNATION (SEE NOTE 7)

ANN. - THIS FUNCTION IS TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS.

MF RO RI R2 R3 R4 R5 R6

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