FIELD WIRING BY TVA

1EY-ISOL-157-A BCP ISOLATOR (NOM-IE-SECTION) SQW640-1X-07 | OMA-EDRS-290,289 | SQW0740-MA-10 | 1EY-ISOL-C5-F BCP ISOLATOR (NOM-IE-SECTION) SQW640-1X-07 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE

ANNUNCIATION PANEL 1EY-EDP-24 SQW640-EP-24 ZONE EB

(CONTINUED FROM BELOW LEFT) FBA CONT'D

TBA CONT'D

27 28 29 30 31 32 33 34

22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F 26

1EY-EFUI-2321 15A | 1EY-EFUI-2322 5A | 1EY-EFUI-2323 5A | 1EY-EFUI-2324 5A | 1EY-EFUI-2325 5A | 1EY-EFUI-2326 5A | 1EY-EFUI-2327 5A | 1EY-EFUI-2328 5A | 1EY-EFUI-2329 5A | 1EY-EFUI-232A 5A | 1EY-EFUI-232B 5A | 1EY-EFUI-232C 5A | 1EY-EFUI-232D 5A | 1EY-EFUI-232E 5A | 1EY-EFUI-232F 5A | 1EY-EFUI-2326 5A

AL BY WFRM

WIRING BY MANUFACTURER SEE NOTE 3

NOTES:

1. THIS EQUIPMENT IS FURNISHED ON TVA CONTRACT 78K4-823705
2. 1EY-EDP-23 IS PART OF 120V AC PREFERRED POWER DISTRIBUTION SYSTEM EY, 4 SINGLE-PHASE, SINGLE-POINT GROUNDED SYSTEM; BATTERY BACKED BY INVERTER.
3. MANUFACTURER TO WIRE FUSES, FUSE SIGNAL CONTACTS, AND TERMINAL BLOCKS.
4. SCHEMATIC LAYOUT DOES NOT REFLECT ACTUAL PHYSICAL ARRANGEMENT; REFER TO PANEL LAYOUT DRAWING 5A540F3-EP-01 AND TERMINAL BLOCK DETAIL SHEET 39.
5. THE DISTRIBUTION PANELS ON SH 23-29 ARE PRIMARILY INTENDED TO SUPPLY POWER TO AUXILIARY CONTROL ROOM LOGIC CONTROLLED SOLENOIDS, RELAYS, DRIVERS, ETC.
6. FUSES ARE BUSSMANN TYPE NIC, RATED 10,000 AIC AT 250 VAC
7. FUSE BLOCKS ARE BUSSMANN or 3839
8. TERMINAL BLOCKS ARE BUCHANAN 600V HEAVY DUTY, TYPE 0721
9. CABINET INTERNAL WIRING IS 16-12AWG STRANDED COPPER, 600V, TYPE SIS, RATED 90°C WIRING DESIGNATED HOT(H) AND NEUTRAL (N) TS NO 12AWG
10. THIS DRAWING SUPERSEDES COULD DRAWING 0148-530490D3, SHEET 2, CONTRACT 78K4-823705, FOR CABINET DOCUMENTATION.

120V AC PREFERRED POWER DISTRIBUTION PANEL 1EY-EDP-23 (CONTINUED ON SQW640-EP-24)

FIELD WIRING BY TVA

1 2 3 4 5 6 7 8 9 10 27 28 29 30 31 32 33 34 35 36 37 38 39 40

NEUTRAL CONNECTIONS FOR TERMINAL BOARD AND FUSES ABOVE

BY WFRM, TYPICAL

TB4

(PARTIAL, SEE SH 29 FOR GENERAL TERMINAL ARRANGEMENT)

NEUTRAL CONNECTIONS CONTINUED ON TB8 SQW640-EP-24 ZONE GB

COMPANION DRGS: SQW640-EP-24-29 S1

120V AC, PREFERRED DISTR PNL-1EY-EDP-20 BUS-1EY-S2-2057 REF SQW1625-EP-02

SQW640-EP-24 ZONE AH

POWER CONNECTIONS CONTINUED ON FB8

FIELD WIRING BY TVA

MC-ILS-0066,0066,0067,0066 | REF SQW1740-MC-34 | ITA-ISOL-154-A BCP ISOLATOR (NOM-IE-SECTION SQW640-1X-07 | MC-IVS-005, 006, 007, 008 | REF SQW1740-MC-26 | OMA-MDOR-24 | SQW1740-MA-11 | ITA-ISOL-154-A BCP ISOLATOR (NOM-IE-SECTION SQW640-1X-07 | OMA EDRS-206,210 | SQW1740-MA-10 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE

TBA (SEE ACTUAL ARRANGEMENT BELOW)

BY WFRM

3 4 5 6 7 8 9 10

12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F 16

1EY-EFUI-2311 15A | 1EY-EFUI-2312 5A | 1EY-EFUI-2313 5A | 1EY-EFUI-2314 5A | 1EY-EFUI-2315 5A | 1EY-EFUI-2316 5A | 1EY-EFUI-2317 5A | 1EY-EFUI-2318 5A | 1EY-EFUI-2319 5A | 1EY-EFUI-231A 5A | 1EY-EFUI-231B 5A | 1EY-EFUI-231C 5A | 1EY-EFUI-231D 5A | 1EY-EFUI-231E 5A | 1EY-EFUI-231F 5A | 1EY-EFUI-2316 5A

1EP-EECC-63 THIS CABLE BY TVA

FBA

(CONTINUED ABOVE RIGHT)

WIRING BY MANUFACTURER SEE NOTE 3

1EP-EEOC-08 AUXILIARY CONTROL ROOM 120V AC DISTRIBUTION CABINET

INSPECTED AND APPROVED FOR ISSUE

PRC APERTURE CARD

Doc. # 58-438
Control # 8304050536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

2	690, SI		ADDED TBE, REVISED LOADS, ADDED "N".
1	SI		ADDED LOADS, CABLE NUMBER, CONTRACT NUMBER AND REDRAWN.

SCALE: EXCEPT AS NOTED

GENERAL
UNITS 1 & 2

SCHEMATIC DIAGRAM 250V DC NORMAL POWER DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED | RECOMMENDED | APPROVED

KNOXVILLE | 88 E | SQW0640-EP-23