



- NOTES:
- GENERAL NOTES:
 - POWER AVAILABLE INDICATING LAMPS ARE AMBER, INCANDESCENT, 120V AC SCREW TERMINAL, WITH CURRENT LIMITING RESISTOR, GENERAL ELECTRIC TYPE EP-16 CAT. NO. 011667085, OR EQUAL.
 - UPS IN SYNCHRONISM INDICATING LAMPS ARE BLUE, GENERAL ELECTRIC TYPE EP-16, OR EQUAL.
 - THE 10 AMPERE FUSES FOR INDICATING LAMPS AND 1000 RELAY ARE BUSHMANN FUSEBOX TYPE FBM, OR EQUAL. WIRE SUPPLYING FUSES SHALL BE AT SHORT AS POSSIBLE AND EACH WIRE ISOLATED FROM ALL OTHER WIRES (EXCEPT FUSE TYPES IN NOTE 3B).
 - ANNUNCIATING AND INDICATING WIRE IS PER MIL-W-10079/AA, TYPE TEFLON, TYPE E, 18AWG, SINGLE CONDUCTOR, 600 VOLT, 200°C WIRE.
 - COMPUTER POWER TRANSFER PANEL: MK. MWM, TVA CONTRACT NO. 77K3-821751.
 - CIRCUIT BREAKERS ARE 400 AMPERE FRAME, NON-AUTOMATIC, 2-POLE HAVING MINIMUM WITHSTAND CURRENT RATINGS OF $I^2t = 1.6 \times 10^6$ FOR DURATION LESS THAN 0.0167 SECONDS, 5000 AMPS FOR DURATION LESS THAN 1 SECOND, WESTINGHOUSE TYPE DA, OR EQUAL.
 - INTERNAL BUS BAR WIRING IS 400 AMPERES. WITHSTAND CURRENT RATING SHALL BE THE SAME AS THE CIRCUIT BREAKERS.
 - TBA IS 4 POINT 30 AMPERE, SCREW TYPE 600 VOLT, GE, OR EQUAL.
 - COMPUTER MAINTENANCE SUPPLY DISTRIBUTION PANEL: MK. VRS-3, TVA CONTRACT NO. 77K3-821751.
 - 100 AND 200 AMP FUSES ARE 250 VAC, 100,000 AMPERE RMS SYMMETRICAL INTERRUPTING CAPACITY. BUSHMANN FUSEBOX TYPE FBM, OR EQUAL.
 - INDICATING LAMP AND ANNUNCIATING FUSES ARE BUSHMANN MIS-O WITH BUSHMANN T77B FUSE BLOCKS ANNUNCIATING FUSE BLOCKS HAVE FORM C CONTACTS THAT SWITCH WHEN FUSE OPENS.
 - INTERNAL PANEL WIRING IS 400 AMPERE FRAME, 10,000 AMPERE RMS SYMMETRICAL SHORT CIRCUIT CAPACITY AT 240 VAC.
 - TBA, TBB, AND TBC ARE 8 POINTS, 30 AMPERES, SCREW TYPE, 600 VOLT, GE, TYPE EB-25, OR EQUAL.
 - THE UNDERVOLTAGE RELAY SENSES AN ABSENCE OF VOLTAGE AND PROVIDES CONTACT CLOSURES DELAYED BY 10 SECONDS, SET BY FIELD, AND DOES NOT CLOSE IF VOLTAGE IS REAPPLIED PRIOR TO THE END OF THE 10 SECOND DELAY. 120VAC, 60HZ, 4POT SWITCH, AGAST 7000 SERIES OFF-DELAY MODEL NO. 7024 AC, OR EQUAL.
 - COMPUTER MAINTENANCE SUPPLY REGULATION TRANSFORMER IS 120 VAC SINGLE PHASE, 37.5 KVA, 60HZ, SOLA BASIC ACUVOLET LINE VOLTAGE REGULATOR, MK. BCM-2, TVA CONTRACT NO. 76K11-820960.
 - COMPUTER MAINTENANCE SUPPLY TRANSFER SWITCH: MK. MWM-3, TVA CONTRACT NO. 77K3-820964.
 - CIRCUIT BREAKERS ARE NON-AUTOMATIC 400 AMPERE FRAME, 2-POLE, EACH HAVING MINIMUM WITHSTAND CURRENT RATINGS AS FOLLOWS:
 - $I^2t = 1.6 \times 10^6$ FOR DURATION LESS THAN 0.0167 SECONDS.
 - 35,000 AMPS FOR DURATION LESS THAN 0.0083 SECONDS.
 - 10,000 AMPS FOR DURATION LESS THAN 0.167 SECONDS.
 - 8,000 AMPS FOR DURATION LESS THAN 1.0 SECOND.
 WESTINGHOUSE TYPE LA, OR EQUAL.
 - INTERNAL BUS WIRING IS 400 AMPERES. WITHSTAND CURRENT RATING SHALL BE THE SAME AS THE CIRCUIT BREAKERS.
 - FOR MOUNTING DETAILS SEE TVA DRAWING NO. SC0816-RU-7.
 - TERMINAL NUMBERS WILL BE SUPPLIED BY VENDOR LATER.
 - THE REGULATION TRANSFORMER DOES NOT PROVIDE ISOLATION. XI & HI ARE INTERNALLY CONNECTED DO NOT GROUND XI OR HI.

REFERENCE DRAWINGS:

50W1640-IA-SERIES	CONDUIT AND GROUNDING PLANS
50W2640-IA-SERIES	MISCELLANEOUS PANEL SYSTEMS
50W1640-IC-SERIES	
50W2640-IC-SERIES	
90W7364-QA-SERIES	
50W0840-EP-01	
50W0840-EP-02	
50W0840-EP-03	
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50W0840-EP-05	
50W0840-EP-06	
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50W0840-EP-49	
50W0840-EP-50	

GENERAL UNITS 1 & 2

SCHMATIC DIAGRAM
250V NORMAL DC POWER
DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

INSPECTED AND APPROVED FOR ISSUE

DESIGN PROJECT MANAGER

NOV 19 1983 8 30 AM

88 E 50W0640-EP-05

Docket # 80-438
Control # 8304050536
Date 3-25-83
of Document
REGULATORY DOCKET FILE

PRC
APERTURE
CARD

PRINTS RECORD

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