GENERAL NOTES:

1. THE SYSTEM SCHEMATIC REFLECTS THE IMPLEMENTATION OF THE SYSTEM FUNCTIONAL CONTROL LOGIC DIAGRAM AND APPLICABLE CRITERIA REQUIREMENTS. THE FUNCTIONAL CONTROL LOGIC DIAGRAM AND ITS REFERENCED DOCUMENTATION FOR THE SOLID STATE CONTROL SYSTEM MUST BE USED IN CONJUNCTION WITH THE SYSTEM SCHEMATIC IN EVALUATING CIRCUIT OPERATION.

   PORTIONS OF THE SYSTEM SCHEMATIC ARE SHOWN OUT-OF-FUNCTION. THESE OUT-OF-FUCTION PORTIONS ARE SHOWN FOR INFORMATION, WITH REFERENCES PROVIDED TO THE DOCUMENT WHICH CONTROLS THE EQUIPMENT CONFIGURATION.

2. INTERFACE NUMBERS WERE ASSIGNED TO EACH POINT OF INTERFACE WITH THE SSCS. THESE NUMBERS APPEAR ON THE CONTROL LOGIC, SSCS CIRCUIT INTERFACE DIAGRAM, AND THIS SCHEMATIC. THEIR PURPOSE IS TO FACILITATE MOVEMENT BETWEEN THESE DOCUMENTS.

3. SSCS CABLE SHIELDS ARE TERMINATED ON THE SHIELD GROUND BUS LOCATED ADJACENT TO THE TERMINAL BLOCKS. TERMINATION POINTS ON THE GROUND BUS ARE NOT DEDICATED TO A SPECIFIC CABLE.

4. ALL UNID AND CABLE DESIGNATIONS ARE PRECEDED BY 1VJ UNLESS OTHERWISE SHOWN.

   JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNID OF THE ENCLOSURE AND SYSTEM DESIGNATION VJ. EXAMPLE: 1IX-IS-007-B-VJJ1.

5. SEE SYSTEM VJ CABLE PROGRAM FOR COMPLETE CABLE INFORMATION INCLUDING SPARE CONDUCTORS. ONLY THOSE CONDUCTORS USED OR TERMINATED ARE SHOWN.

6. ALL ELECTRICAL EQUIPMENT IS SHOWN IN ITS DE-ENERGIZED STATE.

7. SPECIFIC ENTRANCES ARE INDICATED FOR CABLES ENTERING EQUIPMENT THAT HAS MORE THAN ONE ENTRANCE PER DIVISION OF SEPARATION. EXAMPLE: ENT A

8. ALL B&W DRAWING NUMBERS SHOWN (WITH 02 PREFIX) WILL BE SUPERSEDED BY AS-BUILT DRAWINGS OF DIFFERENT NUMBERS. FOR A CROSS-REFERENCE BETWEEN THESE NUMBERS SEE THE MATERIAL MANAGEMENT SYSTEM (MAMS) VENDOR INFORMATION FILE. SI

9. BOP ISOLATOR CABLE SHIELDS THAT ARE SHOWN CONNECTED ARE TERMINATED ON THE SIGNAL GROUND BUS (SG) LOCATED ADJACENT TO THE TERMINAL BLOCKS. TERMINATION POINTS ON THE GROUND BUS ARE NOT DEDICATED TO A SPECIFIC CABLE.

REFERENCE DRAWINGS:

DESIGN CRITERIA DIAG VENTILATION, PURGE & COOLING SYS	3R10641-00
FUNCTIONAL CONTROL LOGIC DIAG REACTOR BLDG COOLING SYS	2GW3900-VJ
WIRING DIAG POWER DISTRIBUTION RELAY CABINET	5A91651-JT
WIRING DIAG POWER DISTRIBUTION RELAY CABINET	5A91661-JT
WIRING DIAG LOCAL CONTROL/TEST STATIONS	5GB0677-JL
SYSTEM SCHEMATIC 250V DC NORMAL PWR DISTRIBUTION SYS	5GW0640-EP
SCHEMATIC DIAG ANNUNCIATOR & SEQUENTIAL EVENTS RECORDING SYS	5GW1640-IA
SCHEMATIC DIAGRAM PLANT COMPUTER SYSTEM	5GW1640-IC
SYSTEM SCHEMATIC ESFAS	5GW1640-IE
SYSTEM SCHEMATIC SSCS	5GW0640-IL
SCHEMATIC DIAGRAM STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYSTEM (SEAMS)	5GW0640-IS
480V MCC COMPARTMENT TYPICALS	5JW0747-RP
MISC PNL SYS SCHEM DIAG	5GW1640-IX

WESTINGHOUSE, TVA CONTRACT 76K3-85526

SCHEMATIC DIAGRAM (480V SWGR)	1245F2

ELECTROMAX INSTRUMENTS INC, TVA CONTRACT 79KJ2-822988 (BOP ISOLATORS)

B&W NSSS, TVA CONTRACT NO. 7C62-54114-2

MAIN CONTROL ROOM PNLS WIRING DIAGRAM	02-53526NF 16-1038567F-01

FLUID COMPONENTS, INC. (FCI), TVA CONTRACT NO. 8CKJ3-825807

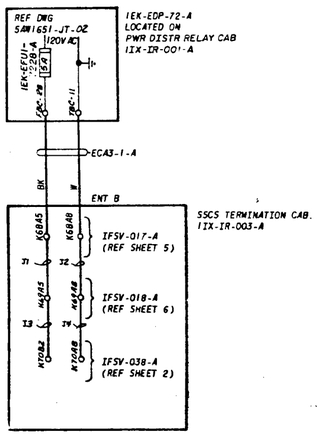
GENERAL ARRANGEMENT & WIRING DIAGRAM	706118

772

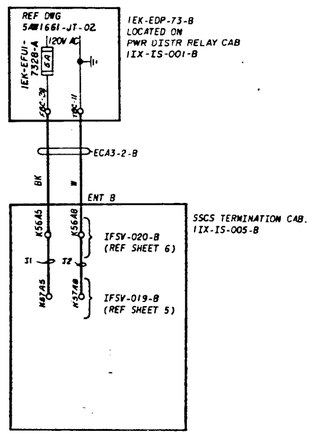
SYMBOLS

- I/E - CURRENT TO VOLTAGE MODIFIER (INSTR LOOPS ONLY)
- √ - SQUARE ROOT EXTRACTOR (INSTR LOOPS ONLY)
- AN / XXXX - UNIT ANNUNCIATOR (MONITORING SYSTEM POINT NO. XXXX)
- LOG / XXXX - PLANT COMPUTER (MONITORING SYSTEM POINT NO. XXXX)
- MON / XXXXX - STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYSTEM(SEAMS) (MONITORING SYSTEM POINT NO. XXXXX)
- I - ISOLATOR

CN - CONSTANTAN



DETAIL A1



DETAIL B1

COMPANION DWGS:
SYSTEM SCHEMATIC REACTOR BLDG A/C & COOLING SYSTEM 5GW1740-VJ-02 THRU -07

PRC APERTURE CARD

Docket # 50-438
Control # 8304050536
Date 3-25-83
of Documents
MASTER DOCKET FILE

REVIEWED	
PCICIVIL	N/A
PEELEC	N/A
PMMECH	N/A

3	772, SI	12-13-82	JCH	LEM	KMH	WHA	DLS
ADDED REFERENCE DWGS. MADE MINOR CHANGES.							
2	SI	7-30-82	JCH	LEM	KMH	WHA	DLS
MADE MINOR CHANGES							
1	SI	2-1-82	JCH	DDW	KMH	WHA	DLS
MINOR REVISIONS PER ECN SI.							

REV	ECN NO.	DATE	DRAWN	SPVR	CHKD	SUPV	CHKR	INSP	SUBMITTED	APPD

DESIGN W.L. Aldridge
DRAWN J.C. Hall
CHKD L.E. Mayo
SUPV R.M. Hodges
INSP
ENGINEER W.L. Aldridge

SCALE EXCEPT AS NOTED

GENERAL
UNIT 1

SYSTEM SCHEMATIC REACTOR BLDG AIR CONDITIONING & COOLING SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

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

KNOXVILLE 3-8-78 | 88 | E | 5GW1740-VJ-01 | R3

RECORD DRAWING AS CONSTRUCTED

PRINT H I
SIZE F J
BR OR PROJ MB EE CE AC CD ED MS MP BM BL PB
PRINTS REQD - R