GENERAL NOTES:

1. THE SYSTEM SCHEMATIC REFLECTS THE IMPLEMENTATION OF THE SYSTEM CONTROL LOGIC AND SSCS INTERFACE DIAGRAM AND APPLICABLE CRITERIA REQUIREMENTS. THE CONTROL LOGIC AND SSCS INTERFACE DIAGRAM AND ITS REFERENCED DOCUMENTATION FOR THE SOL'D 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-FUNCTION 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 AND SSCS INTERFACE DIAGRAM AND THIS SCHEMATIC. ITS 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 2EA UNLESS OTHERWISE SHOWN.

5. 13.8KV SWITCHGEAR 2RA AND 2RB IS SUBJECT TO ALL REQUIREMENTS FOR CLASS 1E ELECTRICAL EQUIPMENT.

6. 52H CONTACTS ARE SHOWN IN THEIR OPEN POSITION AND THEIR DESIGNATION IS SUFFIXED WITH -IN OR -OUT TO INDICATE THEY ARE CLOSED WHEN THE BREAKER IS RACKED IN OR RACKED OUT RESPECTIVELY.

7. 13.8KV SWITCHGEAR 2RA AND 2RB INTERFACE TERMINATION POINTS ARE IDENTIFIED BY THE MANUFACTURER'S TERMINAL POINT NUMBER PRECEDED BY TVA'S PANEL DESIGNATION IN PARENTHESIS.

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

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

10. ONLY ONE OF EIGHT 52S CONTACTS ARE SHOWN. ALL ARE USED BY THE REACTOR COOLANT SYSTEM SEE 5GW0749-RP-03.

11. FOR DESCRIPTION OF BREAKER OPERATION AND AUXILIARY SWITCH TRUTH TABLE SEE 5GW0749-RP-01.

12. JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNID OF THE ENCLOSURE AND EA. EXAMPLE 2EA-EMVS-01-EAJ1.

13. NORMAL AND ALTERNATE SUPPLY BREAKERS ARE INTERLOCKED TO PROHIBIT SIMULTANEOUS CLOSING.

14. 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.
   UNLESS OTHERWISE SHOWN, BOP ISOLATOR DIGITAL OUTPUTS ARE SOLID STATE SWITCHING(SS SW) DEVICES.

REFERENCE DRAWINGS:

PLANT AC AUX PWR SYS SINGLE LINE	2GW0720-RP
SINGLE LINE DIAGRAM 13.8KV SWITCHGEAR 2RA AND 2RB	2AW2720-EA
MAIN SINGLE LINE GENERATOR 2 AND 500KV SWITCHYARD	2NW0504-XE
MAIN SINGLE LINE 161KV SWITCHYARD	2NW0502-XB
TYPICAL SCHEMATICS MED VOLTAGE SWGR CKT ARRGT	5GW0749-RP
CONTROL LOGIC AND SSCS INTERFACE 13.8KV NORMAL AC AUX POWER DISTRIBUTION SYSTEM	2AW0900-EA
WIRING DIAGRAM 2TW-EMRB-29	9CW2649-TM
WIRING DIAGRAM 2XU-EMRB-31 UNIT SS XFMR 2XU	9CW2651-XU
WIRING DIAGRAMS 0XQ-ER1B-4 250V DC SUP LTS & GEN 1 & 2 MET	9CW0724-XQ
WIRING DIAGRAMS 0XR-EMRB-1 RESERVE SS XFMRS 1A & 2A	9CW0621-XR
WIRING DIAGRAMS 0XQ-ER1B-3 250V DC SUP LTS & RSS XFMR 1A & 2A MET	9CW0723-XQ
WIRING DIAGRAMS 0XQ-ER1B-5 250V DC SUP LTS & RSS XFMR 1B & 2B MET	9CW0725-XQ
WIRING DIAGRAMS 0XR-EMRB-6 RESERVE SS XFMRS 1B & 2B	9CW0626-XR
SYSTEN SCHEMATIC 6.9KV NORMAL A.C. AUX POWER DISTRIBUTION SYSTEM	5GW2740-EB
SYSTEN SCHEMATIC 6.9KV CLASS 1E A.C. AUX POWER DISTRIBUTION SYSTEM	5GW2740-EG
SINGLE LINE 125V CLASS 1E DC POWER DISTRIBUTION SYSTEM	5BW0625-EU
24 KV MN GEN BUS, 13.8KV & 6.9KV USS & RSS BUSSES-PLAN	28W2232-RP
SCHEMATIC DIAGRAM, ANNUNCIATOR AND SEQUENTIAL EVENTS RECORDING SYSTEM	5GW2640-IA
SCHEMATIC DIAGRAM, STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYSTEM	5GW0640-IS

ITE (GOULD) IMPERIAL CORP. TVA CONTRACT 75K5-85583

ELEMENTARY DIAGRAM, 13.8KV SWGR 2RA	808603
SCHEMATIC DIAGRAM, 13.8KV SWGR 2RA	808610
ELEMENTARY DIAGRAM, 13.8KV SWGR 2RB	808611
SCHEMATIC DIAGRAM, 13.8KV SWGR 2RB	808612
CONNECTION DIAGRAMS, 13.8KV SWGR 2RA	33-51014-D3263 THRU 33-51014-D3267
CONNECTION DIAGRAMS, 13.8KV SWGR 2RB	33-51014-D3467 THRU 33-51014-D3467
INTERCONNECTION DIAGRAM, 13.8KV SWGR 2RA	33-51014-D3566
INTERCONNECTION DIAGRAM, 13.8KV SWGR 2RB	33-51014-D3566

ELECTROMAX INSTRUMENTS INC., TVA CONTRACT 79K12-822988 FOR BOP ISOLATORS.

SYMBOLS:

XXXXX / NON	SEAMS (MONITORING SYSTEM POINT NO XXXXX)
XXXX / AN	UNIT ANNUNCIATOR (MONITORING SYSTEM POINT NO XXXX)
XXXX / OR	OPERATIONS RECORDER (MONITORING SYSTEM POINT NO XXXX)
OP	DISCONNECTING CONTACT CLOSED IN FULLY CONNECTED POSITION
TP	DISCONNECTING CONTACT CLOSED IN THE TEST POSITION
	TEST BLOCK
52H -	CELL-MOUNTED CIRCUIT BREAKER AUXILIARY SWITCH, ACTUATED BY THE POSITION OF THE REMOVABLE CIRCUIT BREAKER (SEE NOTES 6 AND 11)
52S -	CELL-MOUNTED CIRCUIT BREAKER AUXILIARY SWITCH ACTUATED BY THE OPERATION OF THE CIRCUIT BREAKER MAIN CONTACTS (SEE NOTE 11)
I	ISOLATOR

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

PRC APERTURE CARD

COMPANION DRAWINGS, 5GW2740-EA-02 THRU -08

REVIEWED
RC(CIVIL) ..... N/A .....
RE(ELEC) E.W. Chandler
RM(MECH) ..... N/A .....

MINOR CHANGES		
REV NO	ECN NO.	DATE
3	51	5-11-77
DSGN	T.G. Hill	
DRWN	[illegible]	
CHKD	[illegible]	
SUPV	[illegible]	
INSP		
ENGINEER	W.L. Alldredge	

GENERAL
UNIT 2

SYSTEM SCHEMATIC
13.8KV NORMAL AC AUX POWER
DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED
W.L. Alldredge	[illegible]	E.M. Hodges

KNOXVILLE | 10 77 | 88 E 5GW2740-EA-01 R1
RECORD DRAWING AS CONSTRUCTED

PRINTS REQD-# 2

DRG SIZE	P	M
NE	0	1
EE		
CE		
AD		
CS		
SD		
WP		
SW		
SL		
PA		