

A  
B  
C  
D  
E  
F  
G

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 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-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. IT'S 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 2EG, UNLESS OTHERWISE SHOWN.
5. FOR DESCRIPTION OF BREAKER OPERATION AND AUXILIARY SWITCH TRUTH TABLE SEE 50W0749-RP-01.
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. 6.9KV CLASS IE SWITCHGEAR 2E1-A AND 2E1-B INTERFACE TERMINATION POINTS ARE IDENTIFIED BY THE MANUFACTURER'S TERMINAL POINT NUMBER PRECEDED BY TVA'S PANEL DESIGNATION IN PARENTHESIS.
8. SEE SYSTEM EG CABLE PROGRAM FOR COMPLETE CABLE INFORMATION INCLUDING SPARE CONDUCTORS. ONLY THOSE CONDUCTORS USED OR TERMINATED ARE SHOWN.
9. JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNID OF THE ENCLOSURE AND THE SYSTEM DESIGNATION EG. EXAMPLE 2EG-EHWS-06-A-EGJ1.
10. SPECIFIC ENTRANCES ARE INDICATED FOR CABLES ENTERING EQUIPMENT THAT HAS MORE THAN ONE ENTRANCE PER DIVISION OF SEPARATION. EXAMPLE: ENT A
11. ALL B&W DRAWING NUMBERS SHOWN WILL BE SUPERSEDED BY AS-BUILT DRAWINGS OF DIFFERENT NUMBERS FOR A CROSS-REFERENCE BETWEEN THESE DRAWINGS. SEE THE BELLEFONTE NUCLEAR PLANT MONTHLY STATUS REPORT OF MANUFACTURERS DRAWINGS.
12. NOR AND ALTERNATE SUPPLY BREAKERS ARE INTERLOCKED TO PROHIBIT SIMULTANEOUS CLOSING.
13. BOP ISOLATOR CABLE SHIELDS THAT ARE SHOWN CONNECTED ARE TERMINATED ON THE SIGNAL GROUND BUS (SG) LOCATED ADJACENT TO THE TERMINAL BLOCK. 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 ..... 20W0720-RP
- SINGLE LINE DIAGRAM 6.9KV CLASS IE SWGR 2E1-A ..... 24W2722-EG
- SINGLE LINE DIAGRAM 6.9KV CLASS IE SWGR 2E1-B ..... 24W2723-EG
- MAIN SINGLE LINE GENERATOR 2 AND 500KV SWYD ..... 24W0504-XE
- MAIN SINGLE LINE 161KV SWYD ..... 24W0502-XB
- TYPICAL SCHEMATIC MED VOLTAGE SWGR CMT ARRGT ..... 50W0749-RP
- CONTROL LOGIC AND SSCS INTERFACE 6.9KV CLASS IE AC AUX POWER DISTRIBUTION SYSTEM ..... 24W0900-EG
- WIRING DIAGRAMS OXO-ER1B-3 250V DC SUP LTS & RSS ..... 9C40723-XO
- XPWR 1A B 2A MET ..... 9C40724-XO
- WIRING DIAGRAMS OXO-ER1B-4 250V DC SUP LTS & GEN 1 & 2 MET ..... 9C40724-XO
- WIRING DIAGRAMS OXO-ER1B-5 250V DC SUP LTS & RSS ..... 9C40725-XO
- XPWR 1B B 2B MET ..... 9C40725-XO
- STATUS, ENVIRONMENTAL, & ALARM MONITORING SYSTEM ..... 50W0640-IS
- SYSTEM SCHEMATIC 13.8KV NORMAL AC AUX POWER DISTRIBUTION SYS ..... 5GW2740-EA
- SYSTEM SCHEMATIC STANDBY DSL GEN AND CONTROLS SYS - SOLID STATE CONTROL SYSTEM (SSCS) ..... 5GW2740-RT
- POWER DISTRIBUTION RELAY CAB ..... 5W2651-JT
- POWER DISTRIBUTION RELAY CAB ..... 5W2651-JT
- SINGLE LINE 125V CLASS IE DC POWER DISTRIBUTION SYS ..... 5W0625-EU
- 24KV MN GEN BUS, 13.8KV @ 6.9KV USS @ RSS BUSES - PLAN ..... 20W2292-RP
- MN TURB INSTMT AND CONTROL SYSTEM ..... 5GW2740-TC
- SCHEMATIC DIAGRAM ANNUNCIATOR AND SEQUENTIAL EVENTS RECORDING SYSTEM ..... 5GW2640-IA

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

- ELEMENTARY AND SCHEMATIC DIAGRAMS, 6.9 KV CLASS IE SWGR 2E1-A ..... 808578, 808579, 808590
- ELEMENTARY AND SCHEMATIC DIAGRAMS, 6.9 KV CLASS IE SWGR 2E1-B ..... 808574, 808575, 808576
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-A ..... 33-51014-0461
- CONNECTION DIAGRAMS 6.9KV CLASS IE SWGR 2E1-A ..... 33-51014-0467, 33-51014-0563
- CONNECTION DIAGRAMS 6.9KV CLASS IE SWGR 2E1-A ..... 33-51014-0469 THRU 33-51014-0473
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-A ..... 33-51014-E474
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-B ..... 33-51014-D661 & 33-51014-D666
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-B ..... 33-51014-D667
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-B ..... 33-51014-D669 THRU 33-51014-D673
- CONNECTION DIAGRAM 6.9KV CLASS IE SWGR 2E1-B ..... 33-51014-E674

- INTERCONNECTION DIAGRAMS, 6.9KV CLASS IE SWGR 2E1-A ..... 33-51014-0566 & 33-51014-0567
- INTERCONNECTION DIAGRAMS, 6.9KV CLASS IE SWGR 2E1-B ..... 33-51014-0766 & 33-51014-0767
- B&W NSSS, TVA CONTRACT NO 71C02-5411A-2 MAIN CONTROL ROOM PANEL WIRING DIAGRAMS -02-23785NF & 02-23786NF

ELECTROMAX INSTRUMENTS INC, TVA CONTRACT 79KJ2-822988 FOR BOP ISOLATORS.

SYMBOLS:

- XXXXX SEAMS (MONITORING SYSTEM POINT NO XXXXX)
- XXXXX UNIT ANNUNCIATOR (MONITORING SYSTEM POINT NO XXXXX)
- XXXXX OPERATIONS RECORDER (MONITORING SYSTEM POINT NO XXXXX)
- 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 5)
- 52S - CELL-MOUNTED CIRCUIT BREAKER AUXILIARY SWITCH ACTUATED BY THE OPERATION OF THE CIRCUIT BREAKER MAIN CONTACTS (SEE NOTE 5)
- I ISOLATOR

Docket # 58-438  
Control # 834405053  
Date 3-25-83 of Document  
REGULATORY DOCKET FILE

PRC  
APERTURE  
CARD

PRINTS REC'D

NO	DATE	BY
ME		
EE		
CE		
AD		
CO		
EO		
EP		
SW		
BL		
JA		

COMPANION DRAWINGS:  
5GW2740-EG-02 THRU 13  
9GW2740-EG-01 & 02

1	51	7-18-79	For New	1/24/81	1/24/81	1/24/81	1/24/81	1/24/81	1/24/81	1/24/81	1/24/81
MADE MINOR CHANGES											
REV	ECH NO.	DATE	BY	CHKD	APPD	INSP	RECH	APPD	DATE	BY	DATE
3308	UC Hill										
CHD	W.L. Hill										
SUPP	W.L. Hill										
GENERAL UNIT 2											
SYSTEM SCHEMATIC 6.9KV CLASS IE AC AUX POWER DISTRIBUTION SYSTEM											
BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN											
REVIEWED	RC(CIVIL)	NA	SUBMITTED	RECOMMENDED	APPROVED						
RE(ELEC)	W.L. Hill		W.L. Hill	W.L. Hill	W.L. Hill						
RM(MECH)	NA										
KNOXVILLE			1/16/79	88 E	5GW2740-EG-01	RI					
RECORD DRAWING AS SUBMITTED											