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.
2. INTERFACE NUMBERS WERE ASSIGNED TO EACH POINT OF INTERFACE WITH THE SSCS. THESE NUMBERS APPEAR ON THE CONTROL LOGIC, 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 OVC UNLESS OTHERWISE SHOWN OR NOTED BY A SPECIFIC NOTE ON THE INDIVIDUAL SCHEMATIC SHEET.
5. SEE SYSTEM VC CABLE PROGRAM FOR COMPLETE CABLE INFORMATION INCLUDING SPARE CONDUCTORS. ONLY THOSE CONDUCTORS USED ARE SHOWN
6. JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNID OF THE ENCLOSURE AND SYSTEM DESIGNATION VC. EXAMPLE: 1ED-ENCC-50-VCJ2
7. PORTIONS OF THE SCHEMATIC DIAGRAM 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.
8. SPECIFIC ENTRANCES ARE INDICATED FOR CABLES ENTERING EQUIPMENT THAT HAVE MORE THAN ONE ENTRANCE PER DIVISION OF SEPARATION. EXAMPLE: ENT A
9. ALL B&W DRAWING NUMBERS SHOWN PRECEDED BY 02 WILL BE SUPERSEDED BY AS-BUILT DRAWINGS (PRECED BY 16) OF DIFFERENT NUMBERS. FOR A CROSS REFERENCE BETWEEN THESE DRAWINGS SEE THE BELLEFONTE NUCLEAR PLANT MONTHLY STATUS REPORT OF MANUFACTURERS DRAWINGS.
10. ALL ELECTRICAL EQUIPMENT IS SHOWN IN ITS DE-ENERGIZED STATE.

REF DWGS AND DOCUMENTS

DESIGN CRITERIA DIAGRAM COMMON AREA HEATING AND VENTILATION SYSTEM - - - - - - - - - - - - - - - 3W0642-VC
FUNCTIONAL CONTROL LOGIC DIAGRAM AUX BLDG COMMON ZONE HEATING & VENTILATION SYSTEM - 2GW0300-VC
WIRING DIAGRAM LOCAL INSTRUMENTATION PANEL - 5AB0677-JL
WIRING DIAGRAM LOCAL INSTRUMENTATION PANEL - 5AB1677-JL
WIRING DIAGRAM LOCAL INSTRUMENTATION PANEL - 5AB2677-JL
WIRING DIAGRAMS, LOCAL CONTROL/TEST STATIONS STANDARD DRAWING - - - - - - - - - - - - 5GB0677-JL
SCHEMATIC DIAGRAM STATUS ENVIRONMENTAL, AND ALARM, MONITORING SYSTEM (SEAMS) - - - - - - - - 5GW0640-IS
480V MOTOR CONTROL CENTER COMPARTMENT TYPICALS _ 5GW0747-RP
SCHEMATIC DIAGRAM 250V NORMAL DC PWR DISTRIBUTION SYSTEM _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ 5GW0640-EP
WIRING DIAGRAM BOP CABINET-C&M _ _ _ _ _ _ _ _ _ _ 5AW1652-JT
WIRING DIAGRAM BOP CABINET-C&M _ _ _ _ _ _ _ _ _ _ 5AW1662-JT

WESTINGHOUSE CORP. TVA CONTRACT 76K3-85526
480V LOW VOLTAGE SWITCHGEAR _ _ _ _ _ _ _ _ _ _ J245F03
LEINART'S INC TVA CONTRACT 77K17-821045-2
JOHNSON CONTROLS INC TVA CONTRACT 77K17-821045-1
CONTROLS FOR A.B. HEATING AND VENTILATION SYSTEM
AIR DESIGN INC TVA CONTRACT 76K5-87054-1
EMERSON ELECTRIC CO TVA CONTRACT 76K5-87054-2
NOLAND CO TVA CONTRACT 76K5-87054-3
ELECTRIC HEATERS
H.K. PORTER CO INC TVA CONTRACT 77K36-820154-1
CHAMPION BLOWER & FORGE INC TVA CONTRACT 77K36-820154-2
PENN VENTILATOR CO INC TVA CONTRACT 77K36-820154-3
FANS AND ROOF VENTILATORS
CARRIER MACHINERY & SYS DIV TVA CONTRACT 77K38-86925-2
AIR HANDLING EQUIPMENT
CTI NUCLEAR TVA CONTRACT 77K36-820258-1
AIR CLEANUP UNITS _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ 31233
ELLIS AND WATTS CO TVA CONTRACT 77K33-820916
AUX CONT RM AC UNIT _ _ _ _ _ _ _ _ _ _ _ _ _ 27045
SPENT FUEL POOL A/C UNIT _ _ _ _ _ _ _ _ _ _ _ 27045
B&W NSSS TVA CONTRACT 71C62-54114-2
MAIN CONTROL ROOM WIRING DIAGRAM _ _ _ _ _ _ _ 02-53526NF
NOLAND CO TVA CONTRACT 79K13-825221
ELECTRIC HEATERS
CHAMPIOM BLOWER & FORGE INC TVA CONTRACT 81K34-829685-1
MS VALVE RM B EXHAUST FANS
ELLIS AND WATTS CO TVA CONTRACT 81K34-829685-2
MS VALVE RM A SUPPLY FAN
RUSKIN MFG. CO. TVA CONTRACT 81K29-829394
MS VALVE RM ISOLATION DAMPERS
JOHNSON CONTROLS INC TVA CONTRACT 81KN7-823778
MS VALVE RM THERMOSTAT

SYMBOLS

WON / XXXXX	INTERFACE TO STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYS (SEAMS) (XXXXX-POINT NO.)
AM / XXXXX	INTERFACE TO STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYS (SEAMS) (XXXXX-POINT NO.)
I/E	CURRENT TO VOLTAGE MODIFIER

△ 120 VAC LIGHTING CABINET
□ 480 VAC MOTOR CONTROL CENTER
▲ LOCAL THERMOSTATS
◇ LOCAL CONTROL & TEST STATIONS
LOCAL INSTR PNL'S & MISC INSTR PNL'S
◆ TVA & MFG JUNCTION BOXES

SYMBOLS APPLY TO TERMINAL BLOCKS AND ENCLOSURES ON SHEETS 4,5,6,11,12,13 ONLY

DRAWOUT

TOC CELL MOUNTED AUXILIARY SWITCHES WHICH ARE ACTUATED BY BREAKER CELL POSITION. CONTACTS SHOWN WITH BREAKER IN THE FULLY CONNECTED POSITION

OTS OVERCURRENT TRIP SWITCH

COMPANION DRAWINGS 5GW0740-VC-02 THRU 16

Docket # 50-438
Control # 8308050536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DESIGN	DRAWN	CHKD	SUPV	CHGR	NSP	SUBM	REC	APPD
2	999,1185	7-19-82	DWP	LKS	TWG	KCB	—	JRC	—	JRC	
1	SI	7-23-79	DDB	GDD	SWP	WJB	WJB	—	LJH	WJB	DWP

ADDED CONTRACT REFERENCES

MINOR CHANGES.

DESIGN Scott Wilson
DRAWN Scott Wilson
CHKD
SUPV
NSP
ENGINEER

SCALE EXCEPT AS NOTED

GENERAL
UNITS 1 & 2

SYSTEM SCHEMATIC
AUX BLDG COMMON AREA
ENVIRONMENTAL CONTROL SYS

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED	RECOMMENDED	APPROVED
W.E. Wilson/ma		R.M. Hodge

KNOXVILLE 6-23-78 | 88 | E | 5GW0740-VC-01 | R2

RECORD DRAWING AS CONSTRUCTED

THIS SCCDL DRAWING IS UNDER CONFIGURATION CONTROL

REVIEWED
RC(CIVIL) N/A
RE(ELEC) N/A
RM(MECH) N/A

INSPECTED AND APPROVED FOR ISSUE

PRINT
SIZE
PRINTS REQD