



- NOTES:
- THIS DRAWING REPRESENTS THE FUNCTIONAL CONTROL LOGIC AND SOLID STATE CONTROL SYSTEM (SSCS) UTILIZATION BY DEPICTING THE ACTUAL SSCS EQUIPMENT. SSCS IS PROVIDED BY CONSOLIDATED CONTROLS CORPORATION (CCC) ON TVA CONTRACT 7543-85560.
 - LOGIC STATES SHOWN INTERNAL TO THE SSCS BOUNDARIES AND EXTERNAL TO THE SSCS CARDS ARE IDENTIFIED AS FOLLOWS:
 - ALL UNIQUE IDENTIFICATION CODES SHOWN ARE TO BE PREFIXED WITH 188- OR 288- TO DENOTE EQUIPMENT ASSOCIATED WITH UNIT 1 OR UNIT 2 & 69KV CLASS IE AC AUXILIARY POWER DISTRIBUTION SYS, UNLESS OTHERWISE NOTED.
 - DRAWING IS SHOWN FOR UNIT 1, UNIT 2 IS TYPICAL UNLESS OTHERWISE NOTED BY ASTERISKS (*).
 - SSCS TERMINATIONS ASSOCIATED WITH IX-008-A LOGIC CAB ARE MADE IN CAB IX-007-A AND TERMINATIONS ASSOCIATED WITH IX-008-A LOGIC CAB ARE MADE IN CAB IX-007-B.
 - STATUS FEEDBACK FOR SWITCHES LOCATED ON IX-9 IS PROVIDED DIRECTLY FROM THE ASSOCIATED CKT BKR.
 - SEE REFERENCED DWG ENCLOSED IN PARENTHESIS FOR FUNCTIONAL CONTROL LOGIC.
 - ACS ENABLE (NORMALLY LOGIC "0") GOES TO LOGIC "1" WHEN AUXILIARY CONTROL SYSTEM IS ENABLED.
 - SEE DWG 2W0900-10-1 THRU -4 FOR EXPLANATION OF SYMBOLS.
 - ALL BKR POSITION INPUTS ARE VIA CELL MOUNTED AUX SWITCHES.

(XII) CARD PIN NO.
(XIII) CARD SLOT NO.

- REFERENCE DRAWINGS:
- SL PLANT AC AUX PWR SYS - 2W0720-RP-1
 - SL DIAG 6.9KV SWGR IET1-A - 2W1722-EG-1
 - SL DIAG 6.9KV SWGR IET1-B - 2W1723-EG-1
 - SL DIAG 6.9KV SWGR 2ET1-A - 2W1722-EG-1
 - SL DIAG 6.9KV SWGR 2ET1-B - 2W1723-EG-1
 - SL DIAG 161KV SWD - 2W502-18-01
 - SL DIAG GEN AND 500KV SWD - 2W504-18-01, 02, 03
 - FCLD 13.8KV NOR AC AUX PWR - 2W500-EG-01, 02, 03
 - DESIGN CRITERIA STANDBY AC AUX PWR SYS - MW-RP075A
 - SL DIAG 6.9 KV SWGR IET2-A & B 2KW1717-EG-1
 - SL DIAG 6.9 KV SWGR 2ET2-A & B 2KW2718-EG-1

- CCC DRAWINGS, TVA CONTRACT 7543-85560
 BLOCK DIAGRAM/SCHEN SSCS SINGLE CHANNEL KDB 2316
 LOGIC DIAGRAM - LEC KFB 2316
 LOGIC DIAGRAM UMM KFM 2316
 LOGIC DIAGRAM TOM KFW 2316
 SYMBOLS:
- LEC - LOGIC ELEMENT CONTROLLER
 - UMM - UNIVERSAL MISCELLANEOUS MODULE
 - TOM - TIME DELAY AND MEMORY MODULE

- I - ISOLATOR
- OR - OPERATIONS RECORDER

APERTURE CARD
 Docker # 50-438
 Control # 8202080064
 Date 8/20/02 of Document
 REGULATORY DOCKET FILE

4	951, SI	12/29/01	REVISION	ADD NEW LOGIC	
3	467, SI	12/29/01	REVISION	ADD NEW LOGIC	
3	341, SI	12/29/01	REVISION	ADD NEW LOGIC	
2	115, SI	12/29/01	REVISION	ADD NEW LOGIC	
1	115, SI	12/29/01	REVISION	ADD NEW LOGIC	

1 REDRAWN TO REFLECT SS65 EQUIP AND LATEST DESIGN STATUS.
 (INCORPORATING ECM 115, S1)

SCALE: EXCEPT AS NOTED

POWERHOUSE
 UNIT 1 & 2
 CONTROL LOGIC AND SSCS INTERFACE
 69KV CLASS IE AC AUX POWER
 DISTRIBUTION SYSTEM

BELLEFONTE NUCLEAR PLANT
 TENNESSEE VALLEY AUTHORITY
 DIVISION OF ENGINEERING DESIGN

SUBMITTED: [Signature]
 REVIEWED: [Signature]
 APPROVED: [Signature]

INSPECTED AND APPROVED FOR ISSUE: [Signature]
 KNOXVILLE 12/27/01 88 E 2AW0900-EG-01 R4
 RECORD DRAWING AS CONSTRUCTED