



- NOTES:-
1. THIS DRAWING IS BASED UPON DRAWING 114E075, SHEET 3 OF 3, REVISION 10A ('BASE DRAWING') OF WESTINGHOUSE ELECTRIC CORPORATION, NUCLEAR ENERGY SYSTEMS, PITTSBURGH, PA WHO IS SOLELY RESPONSIBLE FOR THE ACCURACY OR THE RELIABILITY OF THE DESIGN INFORMATION SET FORTH IN THE BASE DRAWING.
 2. FOR ALPHA REFERENCES, SEE DWG. E-302-002, FLOW DIAGRAM LEGEND.
 3. EQUIPMENT INSIDE BOX, REFER TO DWG. D-302-651.
 4. FOR CONVENTIONAL PIPING SPECIFICATIONS, SEE GAI SPECIFICATION SP-329-4461-00, PAGE 29, (WESTINGHOUSE PIPE CLASS CONVERSION TO ENGINEER'S PIPE LINE SPECIFICATION).
 5. SYSTEMS AND COMPONENTS MARKED AS OR HAVE BEEN DECLASSIFIED TO QUALITY RELATED AS COVERED BY DRP-1.
 6. OVERFLOW FROM COOLANT HEAD TANK INTEGRAL TO PUMP.
 7. THIS VALVE IS EQUIPPED WITH A FAST OPERATOR, HOWEVER, THE STROKE TIME MAY EXTEND BEYOND WESTINGHOUSE EQUIPMENT SPECIFICATION 67473. FOR DETAILS REFER TO FCN CG00-10004.
 8. FLANGE HAS BEEN DRILLED AND TAPPED TO ACCEPT A 3/8" COMPRESSION FITTING TO FACILITATE LLRT WORK. THE FITTING SHOULD BE CAPPED AT OTHER TIMES.
 9. THIS FLANGE HAS BEEN DRILLED AND TAPPED TO ACCEPT A 3/8" COMPRESSION FITTING TO FACILITATE DRAIN. THE FITTING SHOULD BE CAPPED AT OTHER TIMES.
 10. EXEMPT FROM 10 CFR 50, APPENDIX J, TYPE C TESTING BASED ON FSAR TABLE 6.2-53a.
 11. A 1/8" HOLE HAS BEEN DRILLED IN THE DOWNSTREAM SIDE (RB SIDE) OF THE DISC'S FOR XVGB8812A-SI AND XVGB8812B-SI, THIS MAKING THESE VALVES UNIDIRECTIONAL. CREDIT CAN BE TAKEN FOR THESE VALVES' SEALING ONLY IN THE UPSTREAM DIRECTION (IN THE REVERSE DIRECTION OF THE SYSTEM FLOW ARROW).
 12. A 1/8" HOLE HAS BEEN DRILLED IN THE UPSTREAM SIDE (IB SIDE) OF THE DISC'S FOR XVGB8811A-SI AND XVGB8811B-SI, THIS MAKING THESE VALVES UNIDIRECTIONAL. CREDIT CAN BE TAKEN FOR THESE VALVES' SEALING ONLY IN THE DOWNSTREAM DIRECTION (IN THE DIRECTION OF THE SYSTEM FLOW ARROW).

DESIGN DATA	5	40	105	40	120	50	35	MIN.
1	400	350	450	350	563	*		
2	535	350	600	350	750	*		
3	50	250	50	250	63	*		
4	535	350	2405	120	3107	*		

* SYSTEM MAY BE OPERATED AT PRESSURE UP TO 600 PSIG DURING NORMAL PLANT OPERATIONS. REFER TO DESIGN SPECIFICATION DSP-544EC, TABLE 3.

VALVE NUMBERING		
SI	SI-18801	SI-18838
SI	SI-1	SI-87
SYSTEM SUFFIX	FIRST NO.	LAST NO.

ESSENTIAL

THIS IS A NUCLEAR SAFETY RELATED DOCUMENT. NO DEVIATION SHALL BE INITIATED OR PERFORMED WITHOUT PRIOR DOCUMENTATION AND WRITTEN APPROVAL.

FSAR Figure 6.3-1, SH. 3

SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMNER NUCLEAR STATION
PIPING SYSTEM FLOW DIAGRAM
SAFETY INJECTION

NO.	DATE	BY	REVISION	CHK BY	APP. BY
20	02/04/04	JMR	CADD ENHANCED PER ECR-50239	MGR	DDJ
19	06/02/01	TGB	REVISED PER ECR-70000	MGR	TOC
18	09/08/00	LTS	REVISED PER NCR 99-0071	MGR	CCB
23	01/08/00	CMS	REVISED PER ETBT-71659	CHK	RKB
22	08/08/99	LTS	REVISED PER ECR-50223	DDJ	WTW
21	02/08/99	TGB	REVISED PER ECR-70034	MGR	LWT

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