



- NOTES:**
- ORIFICE REQUIRED TO PREVENT EXCESSIVE PUMP RUNOUT.
 - THE SUMP REPRESENTATION IS NOT INTENDED TO ILLUSTRATE A STRUCTURAL DESIGN.
 - SEE NSSS SYS. STANDARD DESIGN CRITERIA 1.12 LAYOUT GUIDELINES.
 - PROVIDE 1/2 INCH ID FLOW RESTRICTOR FOR TRANSITION FROM SAFETY CLASS 1 TO SAFETY CLASS 2.
 - LOCATE CONT. SUMP ISOLATION VALVE ABOVE ELEV. OF RWST ISOLATION VALVE.
 - FOR PIPING, VALVES, INSTRUMENTS, ETC. REFER TO DWG. 9A310E0000 AND 9A310F0000 FOR IDENTIFICATION NUMBER DETAILS.
 - SEE NSSS SYSTEM STANDARD DESIGN CRITERIA 1.14, CONTAINMENT ISOLATION.
 - LOCATE TEST CONN. AS CLOSE AS POSSIBLE TO ISOLATION VALVE. TEST CONNECTIONS ATTACHED TO BOTTOM OF PIPING TO FACILITATE DRAINING OF LINES.
 - TEMPORARY BLIND FLANGE (WITH OR WITHOUT TEST CONNECTION) WILL BE INSTALLED ON PERMANENT FLANGE DURING LEAK TESTING.
 - ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR SI UNLESS OTHERWISE NOTED.
 - ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP DESIGNATOR N UNLESS OTHERWISE NOTED.

- REFERENCES:**
- FOR PIPING & INSTRUMENT SYMBOLS SEE DRAWINGS 9F00001 & 9F00002.
 - WESTINGHOUSE DRAWING NO. 1207E17, SHEET 2 OF 4, (REC NO. 14926-0284(1)00002-WN).

D278

LR BOUNDARY DRAWING NO.	REV.
LR-STP-SI-5N129F05014#1	0A

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
17		INCORP. DCN 0600273.													
16	10-23-02	INCORP. DCN 0202002.	JSH	VJM	ON	FILE									
15	2-24-03	ISSUED FOR CONSTRUCTION.			SIGNATURES	ON	FILE								

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

STP

PRIORITY	CADD FILE NO.	FSUG. NO.	STJ. NO.
1	FJA158.171	0070928	

PIPING AND INSTRUMENTATION DIAGRAM
 SAFETY INJECTION SYSTEM

SCALE	DWG. NO.	SHT.	REV.
NONE	5N129F05014#1	1	17