



- NOTES:**
- ORIFICE REQUIRED TO PREVENT EXCESSIVE PUMP RUNOUT.
 - THE SUMP REPRESENTATION IS NOT INTENDED TO ILLUSTRATE A STRUCTURAL DESIGN.
 - SEE W N555 SYS STANDARD DESIGN CRITERIA 1.12 LAYOUT GUIDELINES.
 - LOCATE CONTAINMENT SUMP ISOLATION VALVE ABOVE ELEVATION OF R.W.S.T. ISOLATION VALVE
 - PROVIDE 1/2 INCH ID FLOW RESTRICTOR FOR TRANSITION FROM SAFETY CLASS 1 TO SAFETY CLASS 2.
 - SEE W N555 SYS. STANDARD DESIGN CRITERIA 1.14. CONTAINMENT ISOLATION.
 - LOCATE TEST CONNECTION 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 S1 UNLESS OTHERWISE NOTED.
 - ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP DESIGNATOR M UNLESS OTHERWISE NOTED.
 - FOR PIPING, VALVES, INSTRUMENTS, EQUIPMENT, ETC. REFER TO DWGS 9A310F00001 AND 9A310F00002 FOR IDENTIFICATION NUMBER DETAILS.

- REFERENCES:**
- FOR PIPING AND INSTRUMENT SYMBOLS SEE DRAWINGS 0F00001 & 0F00002.
 - WESTINGHOUSE DRAWING NO. 145560 SHEET 3 OF 4. (SEC. NO. 14556-02042 100003-WN.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-SI-5N129F05015#2	0

**SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY**

PIPING & INSTRUMENTATION DIAGRAM
SAFETY INJECTION SYSTEM

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
18		INCORP. DCN 0601583.	JSH												
17	10-23-02	INCORP. DCN 0202005.	VJM												
16	3-28-83	ISSUED FOR CONSTRUCTION.													

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA559.181	0070928		NONE	5N129F05015#2	18	