



THE (A)(3) COMPONENTS (SHOWN IN GREEN) ARE NON-SAFETY RELATED AND USED FOR SUPPORTING ATWS MITIGATION BY SUPPLYING TURBINE IMPULSE CHAMBER PRESSURE SIGNALS TO AMSAC.

REFERENCE DWG'S

1. 737J182(0003-0002 VT) MOISTURE SEPARATOR REHEATER OUTLINE.
2. 734J31(0003-01-01121 VT) TURB. GEN. OUTLINE.
3. DWG. 9F00025, MAIN STEAM VENTS AND DRAINS.
4. 4787D48(0003-04-00133 VT) VLV. RHT. CONT. DIAG.
5. 4692D25(0003-01278 VT) TO S. CFT XVER PIPE (VALVES & THERMOWELLS SUPPLIED BY).
6. 4672D29(0003-04-00028 VT) TO S. CFT XVER PIPE (VALVES & THERMOWELLS SUPPLIED BY).
7. 9F00022 CONDENSATE SYSTEM P&ID. (E-1, E-4, E-6).
8. 4664D24(0003-03-01287 VT) PPG-STM DRN GLAND DIAG. & PPG.
9. 745J37-1, 2(0003-011201, 01282 VT) TURBINE OUTLINE SUPPLEMENT. CONNECTIONS FOR FIELD TEST.
10. CT-242501(0003-11-01047 VT) THERMOMETER THERMOCOUPLE LIST. THERMOMETERS SUPPLIED AND INSTALLED BY WESTINGHOUSE.
11. 4638D61/70(0003-02-00052 VT) VALVE REHEAT SAFETY OUTLINE.
12. FOR PIPING AND INSTRUMENTATION SYMBOLS SEE DRAWINGS 9F00001 AND 9F00002.
13. CT-23973, MARCH, 1977(0003-17-01407 VT) WESTINGHOUSE RECOMMENDATIONS TO MINIMIZE WATER DAMAGE TO STEAM TURBINES.
14. 7189F10001, ELECTRO HYDRAULIC FLUID SYSTEM P&ID.

- NOTES
1. DELETED.
 2. VALVE NUMBERS PREFIXED BY AN "H" ARE FURNISHED BY WESTINGHOUSE UNDER P.O. 0003. BECHTEL WILL SUPPLY A NIPPLE AND CAP FOR THOSE CONNECTIONS NOT USED FOR INSTRUMENTATION.
 3. DELETED.
 4. MINIMUM RECOMMENDED SLOPE OF MAIN STEAM PIPING IS 1/8" PER 100 FEET. NORMALLY IN DIRECTION OF FLOW. HOWEVER, ACTUAL PIPE SLOPE SHALL BE AS SHOWN ON THE ISOMETRIC DWGS.
 5. ALL INSTRUMENTS SHOWN ON THIS DIAGRAM HAVE SYSTEM DESIGNATOR "MS" UNLESS OTHERWISE NOTED.
 6. ALL INSTRUMENTS SHOWN ON THIS DIAGRAM HAVE SEPARATION GROUP DESIGNATOR "N" UNLESS OTHERWISE NOTED.
 7. REFER TO DRAWINGS 90310F00001 AND 903100002 FOR IDENTIFICATION NUMBER DETAILS.
 8. DELETED.
 9. DELETED.
 10. NITROGEN BLANKETING OF THE MSR TUBE SIDE SHALL BE PROVIDED THROUGH THE VENTS WITH FLEXIBLE HOSE AND QUICK DISCONNECTS COMPATIBLE WITH THE VENT CONNECTION.
 11. PIPING CLASS "C" SHALL BE USED FOR FIELD INSTALLED INSTRUMENT PIPING CONNECTING TO WESTINGHOUSE EQUIPMENT.
 12. THE SYMBOL * INDICATES DEVICES SUPPLIED WITH THE WESTINGHOUSE TURBINE ON PO 0003 AND * INDICATES SUPPLIED WITH THE WESTINGHOUSE NSSS SYSTEM ON PO 0000.
 13. INSTRUMENT TAPS ARE LOCATED ON THE UPSTREAM (MAIN STEAM) SIDE OF THE THROTTLE VALVES.
 14. DELETED.

NO.	ISSUE DATE	REVISION
27	6-9-06	REVISED PER CR 06-6816-1.
26	9-6-05	INCCORP. DCN 0500366.
25	3-17-04	INCCORP. DCN 0300176.
24	5-22-03	INCCORP. DCN 0300179.
23	5-01-01	REVISED PER CR 01-7314-1.
9-22	10-24-01	ISSUED FOR CONSTRUCTION.

ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION
JGL	ON	FILE					
VJM	ON	FILE					
KS	ON	FILE					
LNB	ON	FILE					
VJM	ON	FILE					
SIGNATURES ON FILE					28	INCORP. DCN 0601591 & 0300658	

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
MAIN STEAM

PRIORITY	CADD FILE NO.	FSUG. NO.	STJ. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJ0546.282	D070928		NONE	6S109F00017#2		28

LR BOUNDARY DRAWING NO. REV.
LR-STP-MS-6S109F00017#2 0