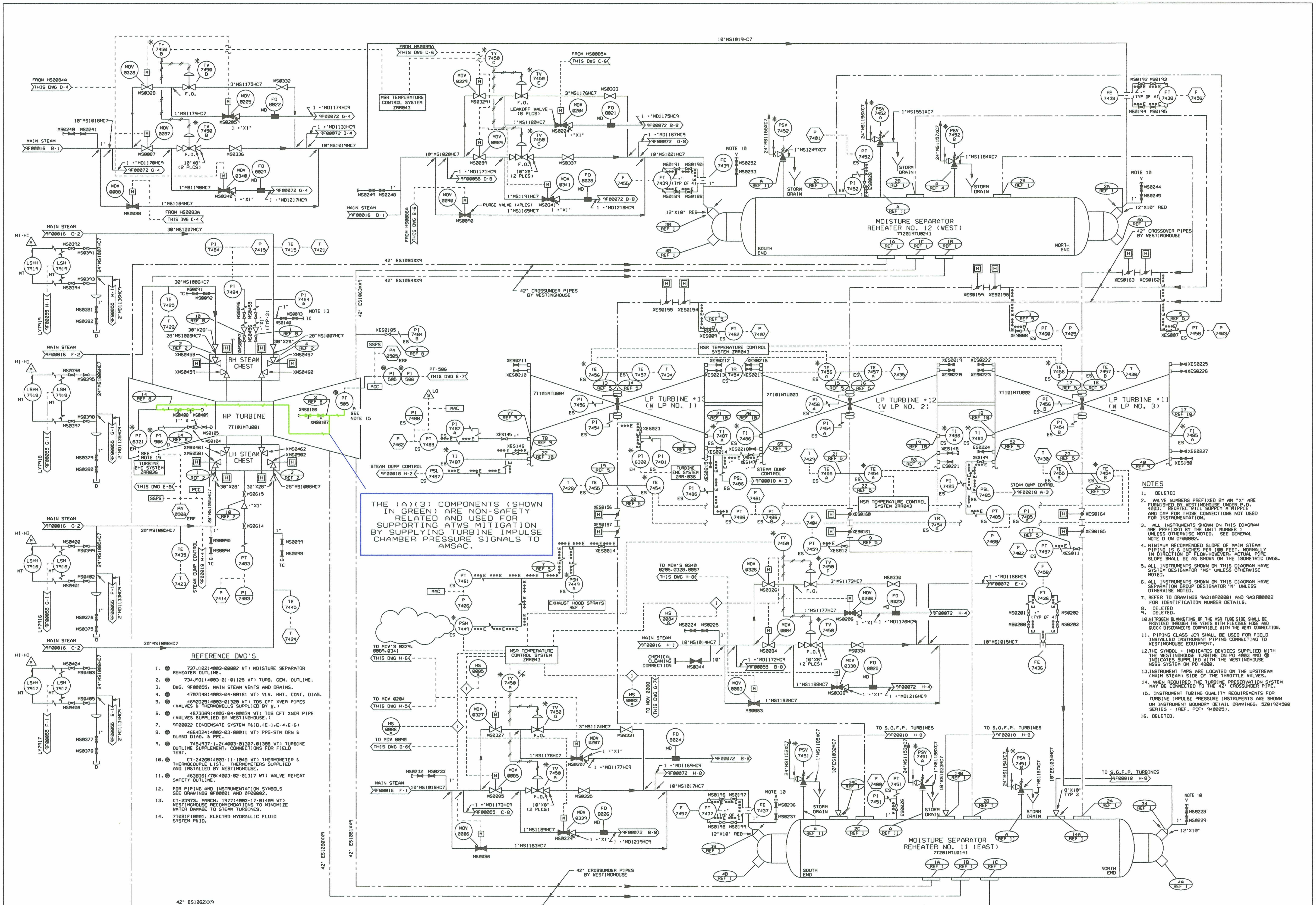

REFERENCE DWG'S

1. ⓦ 737J102(4003-00002 WT) MOISTURE SEPARATOR REHEATER OUTLINE.
2. ⓦ 734J931(4003-01-01125 WT) TURB. GEN. OUTLINE.
3. DWG. 9F00055, MAIN STEAM VENTS AND DRAINS.
4. ⓦ 4707D48(4003-04-00161 WT) VLV. RHT. CONT. DIAG.
5. ⓦ 4692D25(4003-01320 WT) TOS CFT XVER PIPES (VALVES & THERMOWELLS SUPPLIED BY W.)
6. ⓦ 4673D69(4003-04-00034 WT) TOS CFT XNDR PIPE (VALVES SUPPLIED BY WESTINGHOUSE.)
7. 9F00022 CONDENSATE SYSTEM P&ID.(E-1,E-4,E-6)
8. ⓦ 4664D24(4003-03-00011 WT) PPG-STM DRN & GLAND DIAG. & PPC.
9. ⓦ 745J937-1,2(4003-01307,01308 WT) TURBINE OUTLINE SUPPLEMENT, CONNECTIONS FOR FIELD TEST.
10. ⓦ CT-24260(4003-11-1048 WT) THERMOMETER & THERMOCOUPLE LIST. THERMOMETERS SUPPLIED AND INSTALLED BY WESTINGHOUSE.
11. ⓦ 4638D61/70(4003-02-01317 WT) VALVE REHEAT SAFETY OUTLINE.
12. FOR PIPING AND INSTRUMENTATION SYMBOLS SEE DRAWINGS 0F00001 AND 0F00002.
13. CT-23973, MARCH, 1977(4003-17-01409 WT) WESTINGHOUSE RECOMMENDATIONS TO MINIMIZE WATER DAMAGE TO STEAM TURBINES.
14. 7T081F10001, ELECTRO HYDRAULIC FLUID SYSTEM P&ID.

NOTES

1. DELETED
2. VALVE NUMBERS PREFIXED BY AN "X" ARE FURNISHED BY WESTINGHOUSE UNDER P.O. 4003. BECHTEL WILL SUPPLY A NIPPLE AND CAP FOR THOSE CONNECTIONS NOT USED FOR INSTRUMENTATION.
3. ALL INSTRUMENTS SHOWN ON THIS DIAGRAM ARE PREFIXED BY THE UNIT NUMBER 1 UNLESS OTHERWISE NOTED. SEE GENERAL NOTE D ON 0F00002.
4. MINIMUM RECOMMENDED SLOPE OF MAIN STEAM PIPING IS 6 INCHES 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 9A310F00001 AND 9A310F00002 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 JC9 SHALL BE USED FOR FIELD INSTALLED INSTRUMENT PIPING CONNECTING TO WESTINGHOUSE EQUIPMENT.
12. THE SYMBOL • INDICATES DEVICES SUPPLIED WITH THE WESTINGHOUSE TURBINE ON PO 4003 AND ⓦ INDICATES SUPPLIED WITH THE WESTINGHOUSE NSSS SYSTEM ON PO 4000.
13. INSTRUMENT TAPS ARE LOCATED ON THE UPSTREAM (MAIN STEAM) SIDE OF THE THROTTLE VALVES.
14. WHEN REQUIRED THE TURBINE PRESERVATION SYSTEM MAY BE CONNECTED TO THE 42" CROSSUNDER PIPE.
15. INSTRUMENT TUBING QUALITY REQUIREMENTS FOR TURBINE IMPULSE PRESSURE INSTRUMENTS ARE SHOWN ON INSTRUMENT BOUNDRY DETAIL DRAWINGS. 5Z019Z4500 SERIES - (REF. PCF# 940005).
16. DELETED.

D224

LR BOUNDARY DRAWING NO.	REV.
LR-STP-MS-6S109F00017#1	0

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
27		INCORP. DCN 0500824.	LNB				
26	6-8-06	REVISED PER DCP 06-6816-1.	JGL	ON FILE			
25	5-1-01	REVISED PER DCP 01-7314-1.	VJM	ON FILE			
0-24	10-29-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
MAIN STEAM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA146.271	D070928		NONE	6S109F00017#1		27

ESEED.DGN