



- NOTES:**
- ALL PIPING TO BE 1 INCH I.P.S. SCH. 40S STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
 - INSTRUMENT ROOT CONNECTIONS ARE 1/2 INCH NOMINAL DIAMETER.
 - ALL INTERCONNECTING PIPING, EXCEPT THAT SHOWN WITHIN THE INLET HEADER WATER REMOVAL SKID, TO BE SUPPLIED BY BECHTEL.
 - PRESSURE SWITCH TIED TO LEAK OFF TAP ON COMPRESSOR HOUSING TO DETECT FAILURE OF PRIMARY BELLOWS.
 - ALL OTHER INLETS TO BE ISOLATED WHEN EITHER THE PRESSURIZER RELIEF TANK VENT, THE RCS VACUUM DEGASSING SYSTEM TANK VENT OR, THE VOLUME CONTROL TANK VENT DURING SHUTDOWN OPERATION ARE BEING FED.
 - DELETED.
 - ALL COMPONENTS ON THIS DRAWING ARE NON-NUCLEAR SAFETY AND NON-SEISMIC CATEGORY 1, NON-SEISMIC CATEGORY 1 COMPONENTS INSTALLED INSIDE A SEISMIC CATEGORY 1 BUILDING OR IN THE VICINITY OF A SEISMIC CATEGORY 1 COMPONENT. SHALL BE EVALUATED ACCORDING TO THE CRITERIA IN REFERENCE 4.
 - DELETED.
 - TUBING BETWEEN SKIDS SHALL BE REFRIGERATION TYPE TUBING. TUBING FITTING TO BE SOLDER TYPE FITTING EXCEPT CONNECTION AT GLYCOL CHILLER TANK WHERE VENDOR SUPPLIED COMPRESSION FITTINGS AND CONNECTIONS TO VALVES TCV-4680 AND TCV-4681 WERE FLARED FITTINGS ARE REQUIRED.
 - QUICK DISCONNECT FITTING FOR DRAINAGE WITH HOSE.
 - CHECK VALVE TO BE FIELD-INSTALLED IN VENDOR'S PIPING.
 - VENDOR-SUPPLIED INSTRUMENT TO BE INSTALLED IN BECHTEL PIPING.
 - DELETED.
 - DELETED.
 - DELETED.
 - PSV 4651-PCV 441B, AND ASSOCIATED 1-INCH LINES, WILL BE SUPPLIED BY BECHTEL AND FIELD INSTALLED.
 - THE SYSTEM DESIGNATOR OF ALL INSTRUMENTS ON THIS P&ID IS WG.
 - THE SEPARATION GROUP OF ALL INSTRUMENTS ON THIS P&ID IS N.
 - ABBREVIATIONS INSIDE INSTRUMENT BUBBLES ARE RETAINED TO BE CONSISTENT WITH VENDOR.
 - VALVES TCV-4680 AND TCV-4681 ARE SUPPLIED WITH THE REFRIGERATION SKID FOR INSTALLATION BY THE FIELD. THESE VALVES AND THEIR TEMPERATURE BULBS ARE TO BE INSTALLED AS CLOSE TO THE GLYCOL CHILLER TANK AS IS PRACTICAL.
 - TEST CONNECTIONS TO CTI NUCLEAR SKID FOR PERIODIC CALIBRATION OF OXYGEN MONITOR PROBE AE-4655. SEE DRAWING 14926-6464-0001BXX FOR TEST CONNECTION DETAILS.
 - FSL-4658 HAS BEEN SPARED IN PLACE. USE FE-4671, FI-4671, FSH-4671 & FSL-4671 ON 7R319F05043-2 FOR FLOW ALARMS TO VENT HEADER.

- REFERENCES:**
- DRAWINGS 9A310F00001 AND 9A310F00002.
 - GASEOUS WASTE PROCESSING SYSTEM P&ID, DRAWING 7R319F05043-2
 - CTI NUCLEAR DRAWING 7003001, REV. D (BECHTEL DRAWING 6464-00001-XX)
 - DESIGN CRITERIA, SYSTEMS INTERACTION, SEISMIC 11/71, TPMS NO. 7A36001003.
- DRAWING APPLICABILITY NOTES:**
- DELETED
 - DELETED
 - DELETED.
 - THIS DRAWING IS SHEET 1 OF 2 OF THE GWPS P&ID SET. SEE REFERENCE 2 FOR SHEET 2.

ISSUED DGN NO.	DATE	REVISION	ORIG	CHKR	RE	DV	SE	NO.	ISSUE DATE
20		INCORP. DGN 0700594.	JSH						
19	02-17-05	INCORP. DGN 0300707.	JSH	ON FILE					
18	11-24-04	INCORP. DGN 0401483.	LNB	ON FILE					
17	10-06-04	INCORP. DGN 0400835	JGL	ON FILE					
16	10-31-00	INCORP. DGN 9901699.	VJM	ON FILE					
0-15	9-30-02	ISSUED FOR CONSTRUCTION.							

**SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY**

PIPING AND INSTRUMENTATION DIAGRAM
GASEOUS WASTE PROCESSING SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA704.201	D070928		NONE	7R319F05055#2		20

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