NOTES

1. ALL GATE VALVES WITH ALARMS WILL ALARM WHEN CLOSED.
2. ⊙ FIXED WATER SPRAY SYSTEM.
3. ALL ANNUNCIATORS WILL BE DISPLAYED ON THE LOCAL FIRE CONTROL PANEL AND RETRANSMITTED THRU THE FIRE PROTECTION DATA ACQUISITION SYSTEM TO A CRT DISPLAY IN THE CONTROL ROOM. REFER TO VENDOR MANUAL ST401206-00005-2Y FOR SPECIFIC DETAILS.
4. PIPING MATERIAL BY OTHERS IN ACCORDANCE WITH SPEC. WM.
5. ALL INSTRUMENT TAG NUMBERS SHOWN ON THIS DIAGRAM ARE PREFIXED BY THE UNIT NUMBER 1 UNLESS OTHERWISE NOTED. SEE GENERAL NOTE D ON 9A31BF00002.
6. PRESSURE GAUGE TO BE INSTALLED AT THE HIGH POINT OF THE LINE.
7. ALL FP VALVES SHOWN ON THIS DWG. ARE TO BE PREFIXED BY AN 'X'
8. PIPING IS SEISMICALLY SUPPORTED IN DIESEL GENERATOR BUILDING. ALL OTHER AREAS ON THIS DIAGRAM ARE NON-SEISMICALLY DESIGNED.
9. ALL PIV'S ARE LOCKED OPEN.
10. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR FP.
11. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP N
12. FOR VALVE TRIM DETAILS AND PIPING CONFIGURATION SEE ASCOA DWGS SHOWN BELOW. FOR TRIM VALVE NUMBERS. SEE DWG 70271F05064.

VALVE NO.	TRIM DWG	PIPING DWG
FP1245	8295-0100172SP	8295-0100004SP
FP0206	8295-0100172SP	8295-0100005SP
FP1299	NA	8295-0100005SP
FP0201	8295-0100172SP	8295-0100005SP
FP0194	8295-0100172SP	8295-0100005SP
FP1303	NA	8295-0100005SP
FP0192	8295-0100172SP	8295-0100005SP
FP0182	8295-0100172SP	8295-0100005SP
FP1307	NA	8295-0100005SP
FP0185	8295-0100172SP	8295-0100005SP
FP0058	8295-0100172SP	8295-0101036SP/ 8295-0101035SP
FP0062	8295-0100172SP	8295-0101036SP/ 8295-0101035SP
FP0296	8295-100172SP	8295-0100002SP
FP0076	8295-100172SP	8238-0101012SQ/ 8238-0101011SQ
FP0078	8295-100172SP	8238-0100045Q/ 8238-0101011SQ
FP0088	8295-100172SP	8238-0100035Q/ 8238-0101011SQ
FP0128	8295-100172SP	8238-0101014SQ/ 8238-0101011SQ
FP0130	8295-100172SP	8238-0101014SQ/ 8238-0101011SQ
FP0149	8295-100172SP	8238-0101014SQ/ 8238-0101011SQ
FP0151	8295-100172SP	8238-0101014SQ/ 8238-0101011SQ
FP0153	8295-100172SP	8238-0101015Q/ 8238-0101011SQ

LR NOTES:

1. ALL COMPONENTS HIGHLIGHTED IN GREEN ARE IN SCOPE FOR A(3) CONSIDERATIONS.

NOTES CONT'D

13. DRAINS AND INSPECTOR TEST CONNECTIONS MAY BE ADAPTED TO CONTROL DISCHARGED WATER. THESE MAY BE AS SHOWN ON P&ID'S OR MAY BE THREADED AND/OR FITTED WITH A HOSE CONNECTION TO FACILITATE TESTING IN ACCORDANCE WITH NFPA 13.
14. SYSTEM STRAINER DRAIN VALVES MAY BE EQUIPPED WITH A BLIND FLANGE ON THE DISCHARGE SIDE.
15. FUNNEL FOR PRIMING PURPOSES.

BECHTEL / VENDOR / DWG.LATER — INSIDE CONTRACTORS WORK FACILITY

INSIDE DIESEL GENERATOR BUILDING

DIESEL GENERATOR NO. 13 — INSPECTOR'S TEST CONNECTION FP1542 — DG VALVE HOUSE NO. 13

DIESEL GENERATOR NO. 12 — INSPECTOR'S TEST CONNECTION FP1543 — DG VALVE HOUSE NO. 12

DIESEL GENERATOR NO. 11 — INSPECTOR'S TEST CONNECTION FP1544 — DG VALVE HOUSE NO. 11

FOAM-WATER SPRINKLERS (TYP)

FOAM SOLUTION PROPORTIONER (TYP)

FOAM LIQUID TANK #3 150 GAL. CAP. 70271MTS0350

FOAM LIQUID TANK #2 150 GAL. CAP. 70271MTS0250

FOAM LIQUID TANK #1 150 GAL. CAP. 70271MTS0150

DRAIN TO OILY WASTE

TO FIRE PROTECTION LOOP UNIT NO.2 2F00046 H-1

TURBINE LUBE OIL RESERVOIR 70271MKD0946

TURBINE LUBE OIL STORAGE TANK 70271MKD0146

INSIDE TURBINE GENERATOR BUILDING

INSIDE TURBINE GENERATOR BLDG.

TO FIRE PROTECTION TURB. GEN. BLDG. 9F00047-1 C-6

TO FIRE PROTECTION TURB. GEN. BLDG. 9F00047-1 H-1

TO FIRE PROTECTION TURB. GEN. BLDG. 9F00047-1 B-6

TO FIRE PROTECTION TURB. GEN. BLDG. 9F00047-1 A-7

70271MSP005 — 70271MSP006 — 70271MSP003 — 70271MSP002 — 70271MSP001 — 70271MSP008 — 70271MSP004

70271MWD0446 AUX. TRANSFORMER

70271MWD0146 MAIN TRANSFORMER A

70271MWD0246 MAIN TRANSFORMER B

70271MWD1646 BOP TRANSFORMER 102

70271MWD1546 BOP TRANSFORMER 101

70271MWD0646 AUX. ESF TRANSFORMER TRAIN A

70271MWD0746 AUX. ESF TRANSFORMER TRAIN B

70271MWD0846 AUX. ESF TRANSFORMER TRAIN C

SAFP

SERVICE AIR 9F00049-1 G-3 BY VENDOR

FIRE DEPT. CONNECTION (TYP. 3 LINES)

TO DELUGE VALVE HOUSE NO.11 9F05049-1 G-2

TO UNIT NO.2 DELUGE VALVE HOUSE NO.22 2F00046 C-3

TO UNIT NO.2 MECHANICAL AUX. BLDG. 9F05053-2 H-6

TO FIRE PROTECTION LOOP UNIT NO.2 2F00046 D-1

TO FIRE PROTECTION LOOP UNIT NO.2 2F00046 A-2

TO DELUGE VALVE HOUSE NO.12 9F05049-1 F-8

INSIDE DELUGE VALVE HOUSE NO.12

TO UNIT 1 FUEL HANDLING BLDG. 9F05047-1 D-

TO MECHANICAL AUX. BLDG. 9F05053-1 H-8

TO MECHANICAL AUX. BLDG. 9F05053-1 H-6

UNIT 1 ONE STOP SHOP FP5745

LIGHTING DIESEL GENERATOR BLDG.

INSPECTOR'S TEST CONNECTION

FUEL OIL STORAGE TANK

FOAM LIQUID TANK 100 GAL. 70270MTS0149

INSIDE FUEL OIL STORAGE AREA FOAM HOUSE

FIRE DEPT. CONN.

70270MHY1345 — ESSENTIAL COOLING WATER INTAKE STRUCTURE

TO E4ST GATE HOUSE 0F00014 C-3

TO M.O.F NORTH OFFICES 0F00014 B-2

TO M.O.F. CENTRAL SHOPS 0F00014 B-4

TO M.O.F. SOUTH OFFICES 0F00014 B-6

FIRE PROTECTION STORAGE & PUMPS 0F00006 A-8

FIRE PROTECTION STORAGE & PUMPS 0F00006 A-1

NUCLEAR SUPPORT CENTER FP2016

D127

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
36		REVISED PER CR-06-6319-1.	JSH				
35	4-22-04	INCORP. DCN 0400747	KS	ON FILE			
34	12-29-03	REVISED PER CR 02-19305.	LNB	ON FILE			
33	02-11-02	INCORP. DCN 0200348.	VJM	ON FILE			
0-32	12-10-96	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

ESEED.DGN

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM FIRE PROTECTION LOOP

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA186.361	D070928		NONE	7Q271F00046		36

LR BOUNDRY DRAWING NO. LR-STP-FP-7Q271F00046 REV. 0