INSIDE CONTAINMENT

OUTSIDE CONTAINMENT

INSIDE PRIMARY SAMPLE PANEL ZLP131

NOTES:

1. THE PRIMARY SAMPLE SINK AND ALL SAMPLE VESSELS ARE LOCATED IN AN ENCLOSED VENTILATED HOOD.
2. EACH STATION CAPABLE OF ACCEPTING 150ml AND 500ml SAMPLE VESSELS.
3. FOR PIPING AND INSTRUMENT SYMBOLS SEE DWGS. 9A310F00001 & 9A310F00002.
4. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP N UNLESS NOTED.
5. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR PS UNLESS NOTED.
6. DELETED.
7. REFER TO WATERS EQUIPMENT DWG NO 58301 SH 3 OF 3, V.P. NO 4093-01019WD FOR EQUIP. LIST, EQUIP. TAG NOS. & BILL OF MATERIAL FOR VENDOR SUPPLIED COMPONENTS.
8. ALL SAMPLE LINES ON THIS P&ID ARE ¾ IN OD X 0.065 IN MINIMUM WALL, ASME GRADE SA 213 TYPE 316 TUBING, UNLESS OTHERWISE NOTED.
9. DELETED
10. SWAGELOK "SS-600-61 BULKHEAD UNIONS ARE TYPICAL FOR ALL SAMPLE LINES ENTERING THE PANEL.
11. VALVES FV-4450A, 4451A, 4454A, 4455A ARE TO BE INSTALLED WITH FLOW ARROW POINTING UPSTREAM, TO FUNCTION AS CHECK VALVES ONLY. (NO ELECTRICAL POWER REQUIRED).
12. DELETED.
13. HAND SWITCHES FOR THE DEMIN. WATER FLUSH VALVES ARE LOCATED ON THE FRONT OF ZLP-809. THE SOLENOID VALVE WHEN ENERGIZED, OPENS THE SAMPLE VALVE AND CLOSES THE DEMIN. WATER FLUSH VALVE.
14. USE V-87 INSTRUMENT VALVE.
15. ¾" SS INSTRUMENTATION V-88 TUBE/NEEDLE VALVES TO BE FIELD INSTALLED TO MAINTAIN SYSTEM PRESSURE DOWNSTREAM OF THE VREL BELOW 340 PSIG FOR 80PH (500 CC/MNT) SAMPLE FLOW RATE.
16. PI 0659 HAS BEEN ELECTRICALLY DISCONNECTED AND SPARED IN PLACE.

PRESSURIZER SAMPLE COOLER

PRESSURIZER SAMPLE COOLER

REACTOR COOLANT SAMPLE COOLER

RHR SAMPLE COOLER

VENT HOOD

SAMPLE VESSEL

SAMPLE VESSEL

SAMPLE VESSEL

SAMPLE VESSEL

SAMPLE VESSEL

SAMPLE VESSEL

REACTOR GRADE SAMPLE SINK

CHILLER UNIT 9Z321ZCH002

BATH RETURN PUMP 9Z321ZPA014

CONSTANT TEMP. BATH

DELAY COIL

PRESSURIZER VAPOR 9F05003 D-7

PRESSURIZER LIQUID 9F05003 A-6

RC HOT LEG #1 9F05001 B-6

RC HOT LEG #3 9F05001 H-4

RHR LOOP A 9F20000 B-5

RHR LOOP B 9F20000 D-5

RHR LOOP C 9F20000 F-5

SI ACCUMULATOR 1A 9F05016 E-3

SI ACCUMULATOR 1B 9F05016 D-3

SI ACCUMULATOR 1C 9F05016 B-3

TO XPS0327 THIS DWG C-6

DEMIN WATER THIS DWG E-2

PRIMARY SAMPLING SYSTEM 9Z00047 C-2

PRIMARY SAMPLING SYSTEM 9Z00047 G-5

PRIMARY SAMPLING SYSTEM 9Z00047 G-6

DIGITAL PRESSURE INDICATOR PI 0659 RC

PS0401 SEE NOTE 14

PRIMARY SAMPLING SYSTEM THIS DWG A-2

PRIMARY SAMPLING SYSTEM THIS DWG. B-2

PS0402 NOTE 15

PS0403 NOTE 15

PS0404 NOTE 15

TO CVCS VOLUME CONTROL TANK 9F05007 G-5

VOLUME CONTROL TANK LIQUID 9F05007 E-4

DEMIN WATER THIS DWG H-5

CONSTANT TEMP. BATH FILL THIS DWG D-3

FROM CVCS DEMINERALIZER INLET 9F05006 G-2

FROM CVCS DEMINERALIZER OUTLET 9F05006 G-2

FROM THERMAL REGENERATION DEMINERALIZER OUTLET 9F05008 E-8

RADIOACTIVE VENT &DRAIN SYSTEM 9F90012 H-8

FROM PI-0659 THIS DWG G-3

FROM XPS0330 THIS DWG D-4

HHSIP 1A DISCHG. 9F05013 F-3

HHSIP 1B DISCHG. 9F05014 F-3

HHSIP 1C DISCHG. 9F05015 E-3

TO POST ACCIDENT SAMPLING SYSTEM 9Z47501 D-8

TO POST ACCIDENT SAMPLING SYSTEM 9Z47501 E-8

N_2 PURGE GAS

COMPONENT COOLING WATER 9F05020 B-1

COMPONENT COOLING WATER 9F05020 E-1

2" COUPLING

1" COUPLING

PURGE LINE

DRAIN HEADER

CONTINUED ON 9Z00047

(CONTINUED ON 9Z00047)

BY BECHTEL

BY WATERS EQUIP (NOTE 7)

BY WATERS EQUIPMENT (NOTE 7) ↔ BY BECHTEL

LR BOUNDARY DRAWING NO.	REV.
LR-STP-PS-5Z329Z00045#1	2

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
23		REVISED PER CR 05-9688-1	JGL				
22	9-6-01	INCORP. DCN 0102347.	JSH ON FILE				
0-21	12-01-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

ESEED.DGN

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM PRIMARY SAMPLING SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA265.231	D070928		NONE	5Z329Z00045 #1		23

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