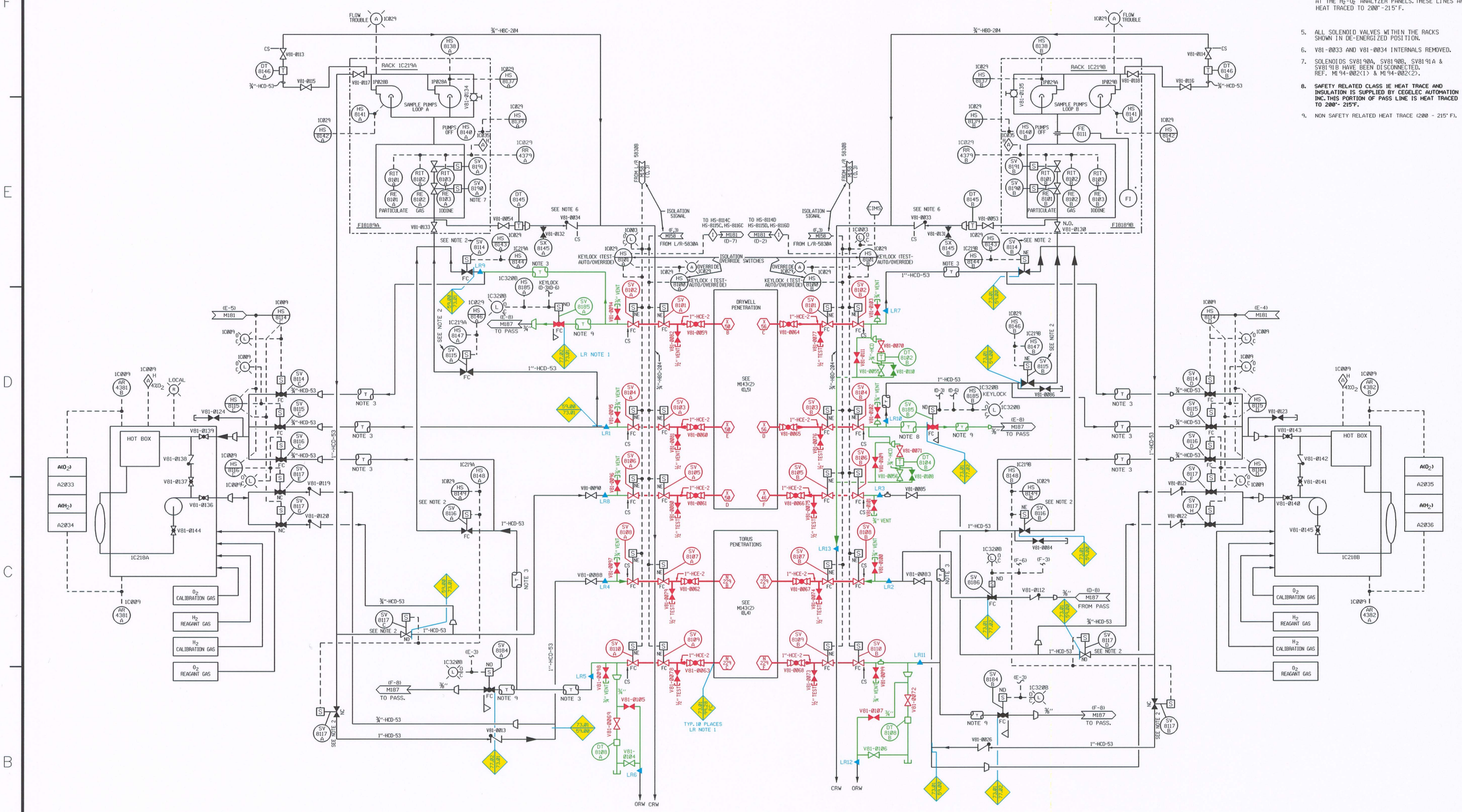

NOTES:

1. SYSTEM A AND B MUST BE PHYSICALLY SEPERATED FOR REDUNDANCY.
2. THESE SV'S SUPPLIED BY BECHTEL.
3. SAFETY RELATED CLASS 1E HEAT TRACE AND INSULATION IS SUPPLIED BY CEGELEC AUTOMATION INC. FOR ALL SAMPLE LINES FROM THE CONTAINMENT PENETRATIONS TO THE CONNECTION AT THE H_2-O_2 ANALYZER PANELS. THESE LINES ARE HEAT TRACED TO 200°-215°F.
5. ALL SOLENOID VALVES WITHIN THE RACKS SHOWN IN DE-ENERGIZED POSITION.
6. V81-0033 AND V81-0034 INTERNALS REMOVED.
7. SOLENOIDS SV8190A, SV8190B, SV8191A & SV8191B HAVE BEEN DISCONNECTED. REF. MI94-002(1) & MI94-002(2).
8. **SAFETY RELATED CLASS 1E HEAT TRACE AND INSULATION IS SUPPLIED BY CEGELEC AUTOMATION INC. THIS PORTION OF PASS LINE IS HEAT TRACED TO 200°- 215°F.**
9. NON SAFETY RELATED HEAT TRACE (200 - 215°F).

H_2-O_2 SAMPLE LINE HEAT TRACE

PENETRATION	HEAT TRACE	THERMOCOUPLE	PANEL	NOTE
DRYWELL X50B	1HTR3401	TE8151A	1C089A	3
DRYWELL X50E	1HTR3402	TE8151B		
TORUS N229C	1HTR3403	TE8151C		
DRYWELL X56C	2HTR4401	TE8150A	1C089B	
DRYWELL X56D	2HTR4402	TE8150B		
TORUS N229F	2HTR4403	TE8150C		
PASS	2HTR4404	TE8150D		8

LR NSAS ANCHOR NOTES:

- LR1 (D,5) SEISMIC ANCHOR SUPPORT FSK-04669, PS-1, DET. A
- LR2 (C,4) SEISMIC ANCHOR SUPPORT FSK-15188, PS-1, DET. B
- LR3 (C,4) SEISMIC ANCHOR SUPPORT FSK-04731, PS-1, DET. A PS-2, DET. A.
- LR4 (C,5) SEISMIC ANCHOR SUPPORT FSK-15190, PS-1, DET. A, PS-2, DET. A.
- LR5 (B,5) SEISMIC ANCHOR SUPPORT FSK-15189, PS-1, DET. B.
- LR6 (B,5) SEISMIC ANCHOR SUPPORT FSK-15189, PS-1, DET. A.
- LR7 (D,4) SEISMIC ANCHOR SUPPORT FSK-04730, PS-4, DET. A.
- LR8 (C,5) SEISMIC ANCHOR SUPPORT FSK-04676, PS-1, DET. A.
- LR9 (E,6) SEISMIC ANCHOR SUPPORT FSK-04670, PS-1, DET. A.
- LR10 (D,3) SEISMIC ANCHOR SUPPORT FSK-04729, PS-4, DET. A.
- LR11 (B,4) SEISMIC ANCHOR SUPPORT FSK-15187, PS-1, DET. A.
- LR12 (B,4) SEISMIC ANCHOR SUPPORT FSK-15187, PS-1, DET. A.
- LR13 (C,4) SEISMIC ANCHOR SUPPORT FSK-04729, PS-4, DET. A.

LR NOTES:

1. THIS BOUNDARY IS BETWEEN THE SAMPLE PIPING AND DRYWELL/TORUS WALL. THE SAMPLE PIPING CONTINUES INTO THE DRYWELL AND TORUS.

LR LEGEND:

- COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
- COMPONENTS NOT SUBJECT TO AMR
- COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21

SYSTEM BOUNDARY INTERFACE

- 59.00 PRIMARY CONTAINMENT
- 73.01 CONTAINMENT ATMOSPHERE CONTROL
- 77.02 POST ACCIDENT SAMPLING
- 99.28PC PRIMARY CONTAINMENT STRUCTURE

D-099

NO.	DATE	REVISION	DRFTR	CHK'D	ENGR	LEAD
0	9/9/08	INITIAL RELEASE	KB	MF	TH	CLB

D.A.E.C.
DUANE ARNOLD ENERGY CENTER
PALO, IA

P.&I.D.
CONTAINMENT ATMOSPHERE MONITORING SYSTEM

DWG. NO. BECH-M181-LR REV. 0

BASE P&ID REV 34