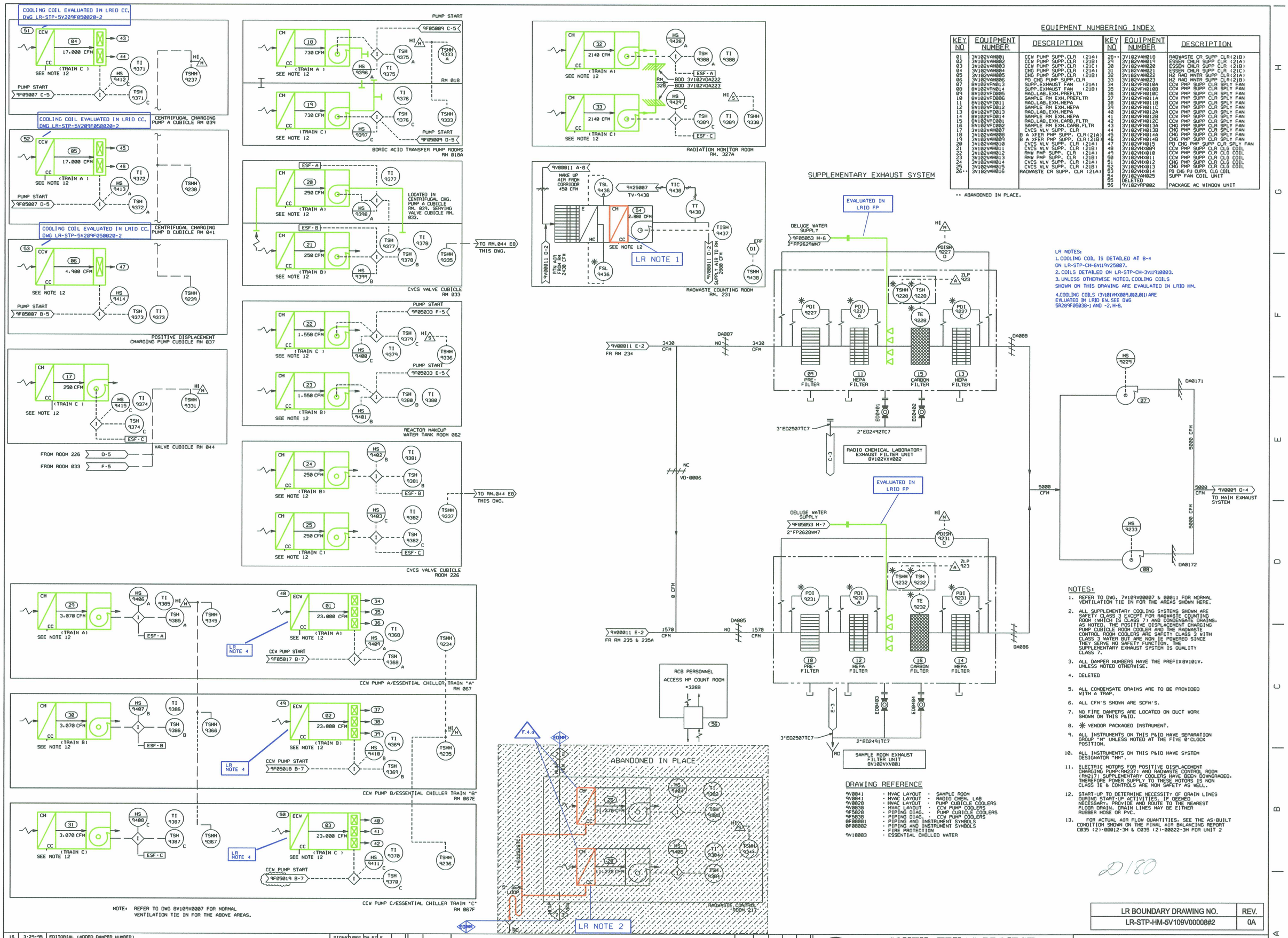

EQUIPMENT NUMBERING INDEX

KEY NO	EQUIPMENT NUMBER	DESCRIPTION	KEY NO	EQUIPMENT NUMBER	DESCRIPTION
01	3V102VAH001	CCW PUMP SUPP.CLR (21A)	28**	3V102VAH018	RADWASTE CR SUPP CLR(21B)
02	3V102VAH002	CCW PUMP SUPP.CLR (21B)	29	3V102VAH019	ESSEN CHLR SUPP CLR (21A)
03	3V102VAH003	CCW PUMP SUPP.CLR (21C)	30	3V102VAH020	ESSEN CHLR SUPP CLR (21B)
04	3V102VAH004	CHG PUMP SUPP.CLR (21A)	31	3V102VAH021	ESSEN CHLR SUPP CLR (21C)
05	3V102VAH005	CHG PUMP SUPP.CLR (21B)	32	3V102VAH022	H2 RAD MNTR SUPP CLR(21A)
06	3V102VAH006	PD CHG PUMP SUPP.CLR	33	3V102VAH023	H2 RAD MNTR SUPP CLR(21B)
07	8V102VFN013	SUPP.EXHAUST FAN (21A)	34	3V102VFN010A	CCW PMP SUPP CLR SPLY FAN
08	8V102VFN014	SUPP.EXHAUST FAN (21B)	35	3V102VFN010B	CCW PMP SUPP CLR SPLY FAN
09	8V102VFD005	RAD.LAB.EXH.PREFLTR	36	3V102VFN010C	CCW PMP SUPP CLR SPLY FAN
10	8V102VFD006	SAMPLE RM EXH.PREFLTR	37	3V102VFN011A	CCW PMP SUPP CLR SPLY FAN
11	8V102VFD011	RAD.LAB.EXH.HEPA	38	3V102VFN011B	CCW PMP SUPP CLR SPLY FAN
12	8V102VFD012	SAMPLE RM EXH.HEPA	39	3V102VFN011C	CCW PMP SUPP CLR SPLY FAN
13	8V102VFD013	RAD.LAB.EXH.HEPA	40	3V102VFN012A	CCW PMP SUPP CLR SPLY FAN
14	8V102VFD014	SAMPLE RM EXH.HEPA	41	3V102VFN012B	CCW PMP SUPP CLR SPLY FAN
15	8V102VFC001	RAD.LAB.EXH.CARB.FLTR	42	3V102VFN012C	CCW PMP SUPP CLR SPLY FAN
16	8V102VFC002	SAMPLE RM EXH.CARB.FLTR	43	3V102VFN013A	CHG PMP SUPP CLR SPLY FAN
17	3V102VAH007	CVCS VLV SUPP. CLR	44	3V102VFN013B	CHG PMP SUPP CLR SPLY FAN
18	3V102VAH008	B A XFER PMP SUPP. CLR(21A)	45	3V102VFN014A	CHG PMP SUPP CLR SPLY FAN
19	3V102VAH009	B A XFER PMP SUPP. CLR(21B)	46	3V102VFN014B	CHG PMP SUPP CLR SPLY FAN
20	3V102VAH010	CVCS VLV SUPP. CLR (21A)	47	3V102VFN015	PD CHG PMP SUPP CLR SPLY FAN
21	3V102VAH011	CVCS VLV SUPP. CLR (21B)	48	3V102VHX009	CCW PMP SUPP CLR CLD COIL
22	3V102VAH012	RMW PMP SUPP. CLR (21A)	49	3V102VHX010	CCW PMP SUPP CLR CLD COIL
23	3V102VAH013	RMW PMP SUPP. CLR (21B)	50	3V102VHX011	CCW PMP SUPP CLR CLD COIL
24	3V102VAH014	CVCS VLV SUPP. CLR (21A)	51	3V102VHX012	CHG PMP SUPP CLR CLD COIL
25	3V102VAH015	CVCS VLV SUPP. CLR (21B)	52	3V102VHX013	CHG PMP SUPP CLR CLD COIL
26**	3V102VAH016	RADWASTE CR SUPP. CLR (21A)	53	3V102VHX014	PD CHG PU CUPPL CLD COIL
			54	8V102VAH025	SUPP FAN COIL UNIT
			55	DELETED	
			56	9V102VRP002	PACKAGE AC WINDOW UNIT

** ABANDONED IN PLACE.

LR NOTES:
1. COOLING COIL IS DETAILED AT B-4 ON LR-STP-CH-6V119V25007.
2. COILS DETAILED ON LR-STP-CH-3V119I0003.
3. UNLESS OTHERWISE NOTED, COOLING COILS SHOWN ON THIS DRAWING ARE EVALUATED IN LRID HM.
4. COOLING COILS (3V101VHX009,010,011) ARE EVALUATED IN LRID EM. SEE DWG 5R209F05038-1 AND -2, H-8.

DRAWING REFERENCE

9V0041	- HVAC LAYOUT	- SAMPLE ROOM
9V0041	- HVAC LAYOUT	- RADIO CHEM. LAB
9V0028	- HVAC LAYOUT	- PUMP CUBICLE COOLERS
9V0030	- HVAC LAYOUT	- CCW PUMP COOLERS
9F5020	- PIPING DIAG.	- PUMP CUBICLE COOLERS
9F5038	- PIPING DIAG.	- CCW PUMP COOLERS
0F00001	- PIPING AND INSTRUMENT SYMBOLS	
0F00002	- PIPING AND INSTRUMENT SYMBOLS	
	- FIRE PROTECTION	
9V10003	- ESSENTIAL CHILLED WATER	

NOTES:

1. REFER TO DWG. 7V109V00007 & 00011 FOR NORMAL VENTILATION TIE IN FOR THE AREAS SHOWN HERE.
2. ALL SUPPLEMENTARY COOLING SYSTEMS SHOWN ARE SAFETY CLASS 3 EXCEPT FOR RADWASTE COUNTING ROOM (WHICH IS CLASS 7) AND CONDENSATE DRAINS, AS NOTED. THE POSITIVE DISPLACEMENT CHARGING PUMP CUBICLE ROOM COOLER AND THE RADWASTE CONTROL ROOM COOLERS ARE SAFETY CLASS 3 WITH CLASS 3 WATER BUT ARE NON IE POWERED SINCE THEY SERVE NO SAFETY FUNCTION. THE SUPPLEMENTARY EXHAUST SYSTEM IS QUALITY CLASS 7.
3. ALL DAMPER NUMBERS HAVE THE PREFIX 8V101V. UNLESS NOTED OTHERWISE.
4. DELETED
5. ALL CONDENSATE DRAINS ARE TO BE PROVIDED WITH A TRAP.
6. ALL CFM'S SHOWN ARE SCFM'S.
7. NO FIRE DAMPERS ARE LOCATED ON DUCT WORK SHOWN ON THIS P&ID.
8. ✳ VENDOR PACKAGED INSTRUMENT.
9. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP "N" UNLESS NOTED AT THE FIVE O'CLOCK POSITION.
10. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR "HM".
11. ELECTRIC MOTORS FOR POSITIVE DISPLACEMENT CHARGING PUMP(RM237) AND RADWASTE CONTROL ROOM (RM217) SUPPLEMENTARY COOLERS HAVE BEEN DOWNGRADED. THEREFORE POWER SUPPLY TO THESE MOTORS IS NON CLASS IE & CONTROLS ARE NON SAFETY AS WELL.
12. START-UP TO DETERMINE NECESSITY OF DRAIN LINES DURING START-UP ACTIVITIES. IF DEEMED NECESSARY, PROVIDE AND ROUTE TO THE NEAREST FLOOR DRAIN. DRAIN LINES MAY BE EITHER RUBBER HOSE OR PVC.
13. FOR ACTUAL AIR FLOW QUANTITIES, SEE THE AS-BUILT CONDITION SHOWN ON THE FINAL AIR BALANCING REPORT C035 (2)-00012-3M & C035 (2)-00022-3M FOR UNIT 2

D180

LR BOUNDARY DRAWING NO.	REV.
LR-STP-HM-5V109V00008#2	0A

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
16	3-29-95	EDITORIAL (ADDED DAMPER NUMBER)	SIGNATURES ON FILE				
15	11-24-92	INCORP. DCN MD-03123 & EDITORIAL CHANGES (UNITIZED DWG.)	SIGNATURES ON FILE				
14	1-15-92	INCORP. ECN 89-J0111CF	SIGNATURES ON FILE				
13	6-3-91	INC. MDCN 88199-21	SIGNATURES ON FILE				
12	8-14-89	ML&P ASSUMES DESIGN CHANGE CONTROL & INCORP DCN * MD-573	SIGNATURES ON FILE				
0-11	11-29-82	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
19		REVISED PER. CR 06-9670.	JOL	VJM	NF	N/A	N/A
18	6-05-03	INCORP. NDCN 01-13106-7-9.	LNB	ON FILE			
17	10-9-96	INCORP. DCN 9600608.	VJM	ON FILE			

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM-HVAC
MECHANICAL AUXILIARY BUILDING
SUPPLEMENTARY EXHAUST SYSTEM AND
SUPPLEMENTARY COOLING SYSTEM FLOW DIAGRAM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA736.191	D070928		NONE	5V109V00008#2		19

ESEED.DGN