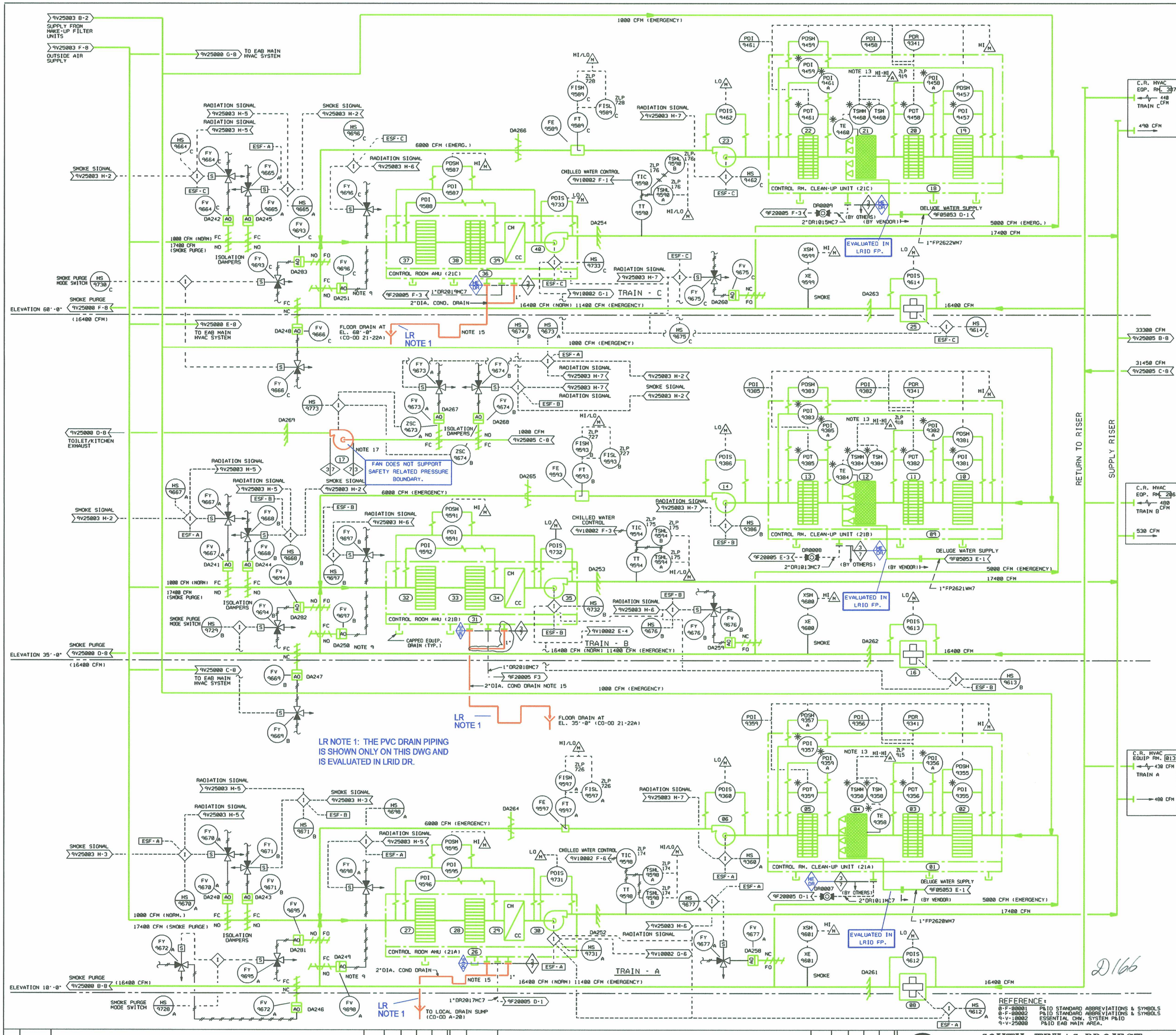

EQUIPMENT NUMBERING INDEX

KEY NO	EQUIPMENT NUMBER	DESCRIPTION
01	3V112VXV001	CLEAN-UP FILTER UNIT(TRAIN A) (21A)
02	3V112VFD007	UNIT 01 PREFILTER (21A)
03	3V112VFD016	UNIT 01 HEPA FILTER (21A)
04	3V112VFC004	UNIT 01 CARBON FILTER (21A)
05	3V112VFD019	UNIT 01 HEPA FILTER (21A)
06	3V112VFN007	CLEAN-UP FAN (TRAIN A) (21A)
07		
08	3V112VFN025	RETURN FAN (TRAIN A) (21A)
09	3V112VXV002	CLEAN-UP FILTER UNIT(TRAIN B) (21B)
10	3V112VFD008	UNIT 09 PREFILTER (21B)
11	3V112VFD017	UNIT 09 HEPA FILTER (21B)
12	3V112VFC005	UNIT 09 CARBON FILTER (21B)
13	3V112VFD020	UNIT 09 HEPA FILTER (21B)
14	3V112VFN008	CLEAN-UP FAN (TRAIN B) (21B)
15		
16	3V112VFN026	RETURN FAN (TRAIN B) (21B)
17	9V112VFN039	KITCHEN/TOILET EXHAUST FAN
18	3V112VXV003	CLEAN-UP FILTER UNIT(TRAIN C) (21C)
19	3V112VFD009	UNIT 18 PREFILTER (21C)
20	3V112VFD018	UNIT 18 HEPA FILTER (21C)
21	3V112VFC006	UNIT 18 CARBON FILTER (21C)
22	3V112VFD021	UNIT 18 HEPA FILTER (21C)
23	3V112VFN009	CLEAN-UP FAN (TRAIN C) (21C)
24		
25	3V112VFN027	RETURN FAN (TRAIN C) (21C)
26	3V112VAH007	AIR HANDLING UNIT (TRAIN A) (21A)
27	3V112VFD025	UNIT 26 PREFILTER (21A)
28	3V112VFD026	UNIT 26 HIGH EFF FILTER (21A)
29	3V112VHX016	UNIT 26 COOLING COIL (21A)
30	3V112VFN017	UNIT 26 SUPPLY FAN (21A)
31	3V112VAH008	AIR HANDLING UNIT (TRAIN B) (21B)
32	3V112VFD027	UNIT 31 PREFILTER (21B)
33	3V112VFD028	UNIT 31 HIGH EFF FILTER (21B)
34	3V112VHX017	UNIT 31 COOLING COIL (21B)
35	3V112VFN018	UNIT 31 SUPPLY FAN (21B)
36	3V112VAH009	AIR HANDLING UNIT (TRAIN C) (21C)
37	3V112VFD029	UNIT 36 PREFILTER (21C)
38	3V112VFD030	UNIT 36 HIGH EFF FILTER (21C)
39	3V112VHX018	UNIT 36 COOLING COIL (21C)
40	3V112VFN019	UNIT 36 SUPPLY FAN (21C)

NOTES:

1. ALL SYSTEMS SHOWN ARE SAFETY CLASS 3 EXCEPT THOSE NOTED WHICH ARE NNS. ALL NNS DUCTWORK & HVAC EQUIPMENT SUPPORTS ARE DESIGNED TO MEET QUALITY CLASS 7 REQUIREMENTS.
2. ALL DAMPER NUMBERS SHOWN HAVE PREFIX 3V112V.
3. DELETED
4. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR "HE".
5. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP "N" UNLESS OTHERWISE NOTED AT 5 O'CLOCK POSITION.
6. INSTRUMENTS MARKED WITH AN (•) ARE FURNISHED BY THE CORRSPONDING EQUIPMENT VENDOR.
7. ROOM NUMBERS ARE AS SHOWN ON ARCHITECTURAL DRAWINGS.
8. DELETED.
9. RETURN DAMPERS DA249,250 & 251 REMAIN PARTLY OPEN IN FC MODE.
10. ALL AIR FLOW CFM'S SHOWN ARE AT STANDARD CONDITIONS (SCFM).
11. ALL EQUIPMENT DRAINS SHOWN ARE 2" SIZE. UNLESS OTHERWISE NOTED.
12. ALL OUTSIDE AIR SUPPLY. EXHAUST AIR & SMOKE PURGE DAMPERS ARE BUBBLE TIGHT.
13. ALL ANNUNCIATORS WILL BE DISPLAYED ON THE LOCAL FIRE CONTROL PANEL & RETRANSMITTED TO A CRT DISPLAY IN THE CONTROL ROOM.
14. ALL FIRE PROTECTION PIPING IS QUALITY CLASS 7.
15. CONDENSATE DRAIN LINES ARE OF PVC PIPE UNLESS OTHERWISE NOTED. PVC DRAIN PIPING IS TO BE FIELD ROUTED TO THE FLOOR DRAIN OR SUMP AS SHOWN.
16. THE OUTSIDE AIR MAKE UP DURING NORMAL OPERATION WILL NOT EXCEED 4000 CFM UNDER ANY CONDITION IN ORDER TO KEEP TOXIC GAS CONCENTRATIONS IN THE ENVELOPE BELOW CRITICAL LEVELS IN CASE OF UNDETECTED TOXIC GASES IN THE OUTSIDE AIR.
17. KITCHEN AND TOILET EXHAUST FAN IS INLINE CENTRIFUGAL TYPE WITH BELT DRIVE.
18. FOR ACTUAL AIR QUANTITIES, SEE THE AS-BUILT CONDITION SHOWN ON THE FINAL AIR BALANCING REPORT C035 (2)-00020-3H FOR UNIT 2

REFERENCE:

0-F-00001	P&ID STANDARD ABBREVIATIONS & SYMBOLS
0-F-00002	P&ID STANDARD ABBREVIATIONS & SYMBOLS
9-V-10002	ESSENTIAL CHW, SYSTEM P&ID
9-V-25000	P&ID EAB MAIN AREA.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-HE-5V119V25004#2	0A

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
19		INCORP. DCN 0001736.	JSM				
18	6-24-03	INCORP. DCN 0001737.	VJM	ON FILE			
17	11-29-01	INCORP. DCN 0001735.	LNB	ON FILE			
0-16	12-16-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
HVAC CONTROL ROOM ENVELOPE SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA725.191	D070928		NONE	5V119V25004*2	-	19

ESSEED_DGN