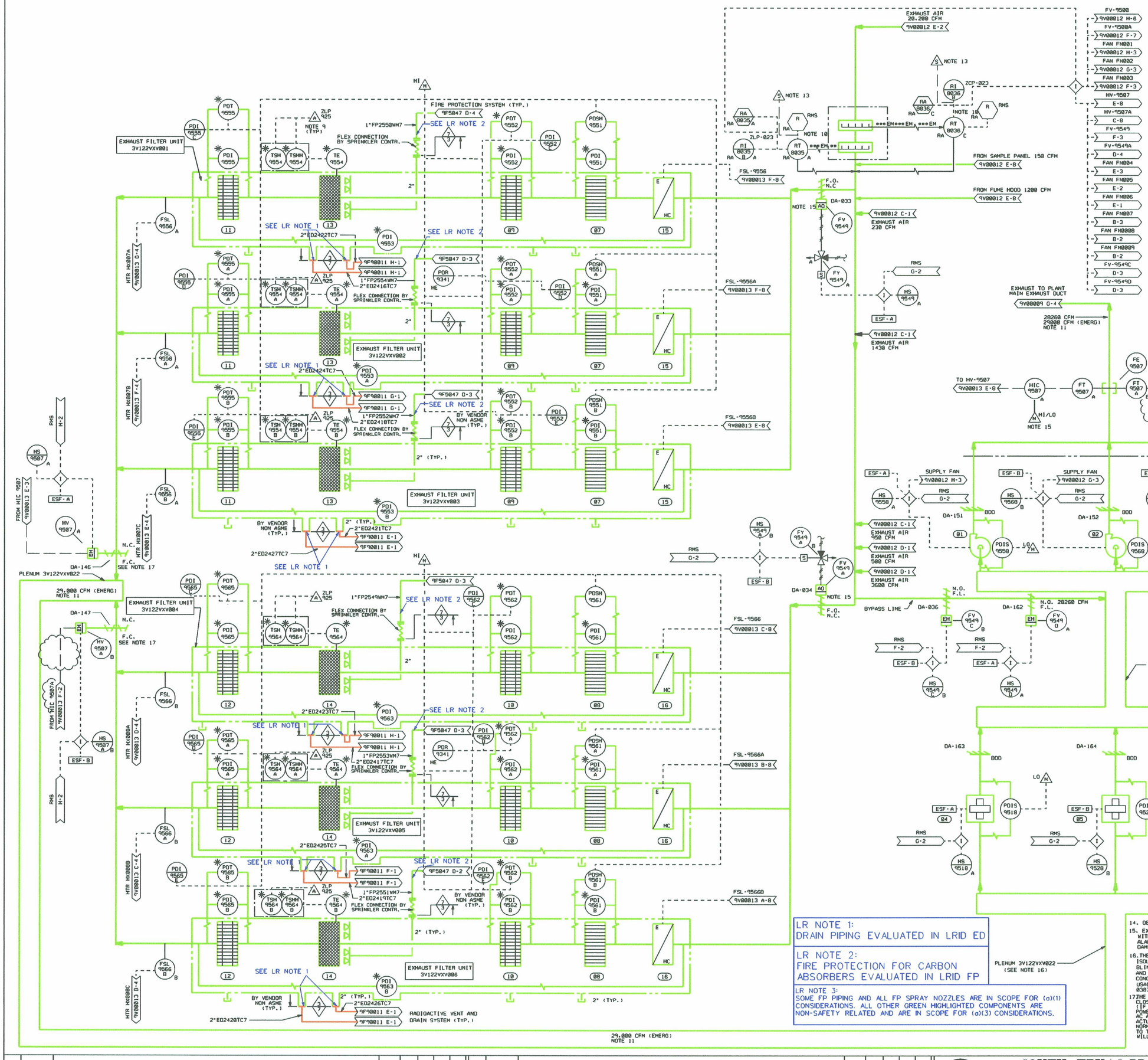

EQUIPMENT NUMBERING INDEX		
KEY NO	EQUIPMENT NUMBER	DESCRIPTION
01	3V122VFN004	F H HVAC EXH. FAN (21A)
02	3V122VFN005	F H HVAC EXH. FAN (21B)
03	3V122VFN006	F H HVAC EXH. FAN (21C)
04	3V122VFN007	F H HVAC BOOSTER FAN (21A)
05	3V122VFN008	F H HVAC BOOSTER FAN (21B)
06	3V122VFN009	F H HVAC BOOSTER FAN (21C)
07	3V122VFD007 A,B & C	F H HVAC PREFILTER (21A,22A,23A)
08	3V122VFD008 A,B & C	F H HVAC PREFILTER (21B,22B,23B)
09	3V122VFD009 A,B & C	F H HVAC EXH. HEPA (21A,22A,23A)
10	3V122VFD010 A,B & C	F H HVAC EXH. HEPA (21B,22B,23B)
11	3V122VFD011 A,B & C	F H HVAC EXH. HEPA (21A,22A,23A)
12	3V122VFD012 A,B & C	F H HVAC EXH. HEPA (21B,22B,23B)
13	3V122VFC001 A,B & C	F H HVAC EXH. CARB. FLTR. (21A,22A,23A)
14	3V122VFC002 A,B & C	F H HVAC EXH. CARB. FLTR. (21B,22B,23B)
15	3V122VHX007 A,B & C	F H HVAC EXH. HTR. (21A,22A,23A)
16	3V122VHX008 A,B & C	F H HVAC EXH. HTR. (21B,22B,23B)

REFERENCE DRAWINGS

1. 9V0069 FHB HVAC PHYSICAL LAYOUT
2. 9V0071 FHB HVAC PHYSICAL LAYOUT
3. 9V0073 FHB HVAC PHYSICAL LAYOUT
4. 9V0122 HAB HVAC PHYSICAL LAYOUT
5. 0F0001 P&ID STANDARD ABBREV. & SYMBOLS
6. 0F0002 P&ID STANDARD ABBREV. & SYMBOLS
7. 9V00012 FHB SUPPLY SUB. SYSTEM.
8. GENERAL ATOMIC DWG NO.8392-1001(GAS), SHT 18. (8301-00267-DW).

NOTES

1. ALL SYSTEMS SHOWN ARE SAFETY CLASS 3.
2. ALL DAMPER NUMBERS SHOWN HAVE THE PREFIX 3V122V. EXCEPT AS NOTED.
3. ✳ VENDOR SUPPLIED INSTRUMENTS.
4. DELETED.
5. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP 'N' UNLESS OTHERWISE NOTED AT FIVE O'CLOCK POSITION.
6. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR "HF", UNLESS OTHERWISE NOTED.
7. DELETED
8. ALL CFM AIR QUANTITIES AS SHOWN ARE SCFM (STANDARD CFM).
9. ALL ANNUNCIATORS WILL BE DISPLAYED ON THE LOCAL FIRE CONTROL PANEL AND RE-TRANSMITTED THRU THE FIRE PROTECTION DATA ACQUISITION SYSTEM TO A CRT DISPLAY IN THE CONTROL ROOM.
10. TAG NUMBER OF VALVES FURNISHED BY GA IS SHOWN ON REF DWG 8.
11. THE EMERGENCY EXHAUST FLOW IS BASED ON PROVIDING ADEQUATE NEGATIVE PRESSURE IN THE BUILDING AND COOLING IN SAFETY RELATED AREAS WITH NO SUPPLEMENTARY COOLERS. ONLY THE TOTAL EMERGENCY EXHAUST FLOW IS NOTED. THE ROOM BY ROOM EMERGENCY FLOWS CAN BE PROPORTIONALLY HIGHER. SEE NOTE 12.
12. FOR ACTUAL AIR FLOW QUANTITIES DURING NORMAL AND EMERGENCY MODES. SEE THE AS-BUILT CONDITION SHOWN ON THE FINAL AIR BALANCING REPORT C035(2)-00018-3M.
13. MONITOR FAILURE ALARM ON PANEL ZCP-022.
14. DELETED.
15. EXHAUST FLOW ALARM INTERLOCKED WITH FILTER INLET DAMPER POSITION: ALARM HI/LO FLOW WHEN EITHER INLET DAMPER IS OPEN.
16. THE EXHAUST BOOSTER FANS CAN BE ISOLATED FROM THE SYSTEM UTILIZING BLINDS AND FLANGES IN PLENA VXV-022 AND VXV-023. FOR MORE INFORMATION CONCERNING THE CONFIGURATION AND USAGE OF THESE BLINDS SEE DRAWING 0387-09-00001-EJ.
17. THE FLOW CONTROL DAMPERS WILL FAIL CLOSED ON A LOSS OF CONTROL SIGNAL (IF THE NORMAL AC OR DC BACKUP ACTUATOR POWER AVAILABLE) OR A LOSS OF NORMAL AC ACTUATOR POWER. (IF DC BACKUP ACTUATOR POWER AVAILABLE), IF BOTH NORMAL AC AND DC BACKUP POWER TO THE ACTUATOR ARE LOST THEY WILL FAIL AS IS.

LR NOTE 1:
DRAIN PIPING EVALUATED IN LRID ED

LR NOTE 2:
FIRE PROTECTION FOR CARBON ABSORBERS EVALUATED IN LRID FP

LR NOTE 3:
SOME FP PIPING AND ALL FP SPRAY NOZZLES ARE IN SCOPE FOR (a)(1) CONSIDERATIONS. ALL OTHER GREEN HIGHLIGHTED COMPONENTS ARE NON-SAFETY RELATED AND ARE IN SCOPE FOR (a)(3) CONSIDERATIONS.

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
21		INCORP. DCN 0201176.	JSH				
20	7-19-07	INCORP. DCN 0201162.	JSH	ON FILE			
19	7-11-01	INCORP. DCN 0003389.	LNB	ON FILE			
0-18	12-12-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
HVAC FUEL HANDLING BUILDING
EXHAUST SYSTEM

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA741.211	D070928		NONE	3V129V00013*2		21

LR BOUNDARY DRAWING NO.	REV.
LR-STP-HF-3V129V00013#2	0A

D172