

FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

#### NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "BRS" UNLESS OTHERWISE NOTED.
2. WORK THIS DWG WITH DWGS 20853, 20854, 20855, 20856, 20857, 20858, 20859 & 20860.
3. VALVE & EQUIPMENT NUMBERS PRECEDED BY A "2" ARE FOR UNIT 2.
4.  $\Delta$  INDICATES REVISION LEVEL.
5. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNLESS OTHERWISE NOTED.
6. INSTRUMENT REFERENCES  
(B) TO ML-FV-1450-1 & 2, DRAWING ML-20831.
7. INTERVALS OF CHECK VALVE BRS-V221 HAVE BEEN REDUCED.

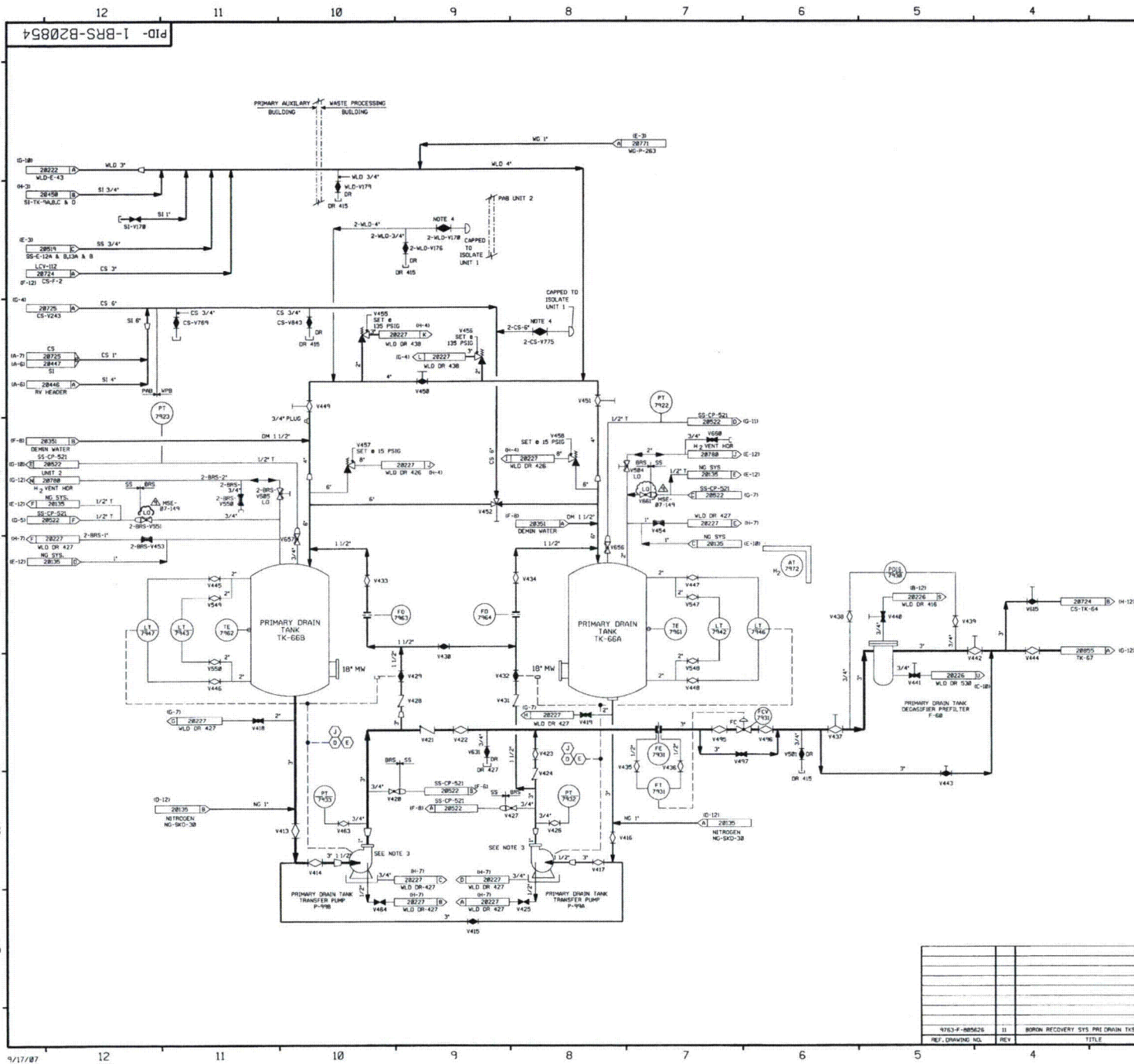
REV	DATE	BY	CHKD	DESCRIPTION
1	6/13/86	DWS	DWS	INCORPORATED DCR 86-08 CA 3
2	8/13/86	GO	JDM	INCORPORATED DCR 86-08 CA 3
3	1/17/87	MRJ	VRD	INCORPORATED DCR 86-08 CA 3
4	5/25/88	DPH	APL	INCORPORATED DCR 86-08 CA 3
5	3/28/91	MRB	PLJ	INCORPORATED DCR 86-08 CA 3
6	7/24/94	BCL	HPW	INCORPORATED DCR 86-08 CA 3
7	10/17/94	CSB	HPW	INCORPORATED DCR 86-08 CA 3
8	1/13/98	GO	JDM	INCORPORATED DCR 86-08 CA 3
9	6/13/98	DWS	DWS	INCORPORATED DCR 86-08 CA 3
10	1/13/98	GO	JDM	INCORPORATED DCR 86-08 CA 3
11	1/13/98	GO	JDM	INCORPORATED DCR 86-08 CA 3
12	1/13/98	GO	JDM	INCORPORATED DCR 86-08 CA 3



**FPL ENERGY** Seabrook Station  
BORON RECOVERY SYSTEM  
TESTING & DEMINERALIZATION  
DETAIL

PID- 1-BRS-B20861






FOR PAID REFERENCES DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2.

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
  2. WORK THIS DWG WITH DWGS 28053, 28055, 28056, 28057, 28058, 28059, 28068 & 28069.
  3. SEE DRAWING DR-28053 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
  4. VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION.
  5. Δ INDICATES REVISION LEVEL.
  6. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INVS. UNLESS NOTED OTHERWISE.
  7. INSTRUMENT REFERENCES:
    - (D) FROM 1-BRS-FS-7525 ON DNG BRS-28055 (F-7).
    - (E) FROM 1-BRS-FS-7525 ON DNG BRS-28055 (F-7).
    - (J) FROM 1-BRS-FS-3-1 ON DNG BRS-28055 (F-5).

9	6-17-87	JM	BS	FEA	INCORP HSE 87-149 REV. B
8	5/30/88	BS	DWS	WFE	INCORP HSE 88-124 REV. B
7	6/6/89	DWS	RWS	DJM	INCORP HSED 900818 DOW'N
6	11/7/92	DWS	BCL	DJM	INCORP DCR 878804 CAMP 8 & 5
5	4-23-92	HRB	MPW	JEV	REMOVED HSE TO UNIT 2 (LATER); INCORP HSED 910118 CAB 8 & 11 S15 CAB
4	5/26/90	HRB	PAL	IV	REMOVED HSE 87138 (CA 11) REVISIONS CONT. COORD. ADDEN NOTE 6
3	1/6/88	MPW	DWS	HJY	INCORP DCR 87-344 & ECA 19/181717A UNIT 2 VALVES SHOWN CLOSED FOR NOTE 4. REVISIONS FLOW ON BYPASS LINE. CONT. COORDINATES. REVISION FLOW ARROW TO TK-66A.
2	10/3/86	CSB	BCL	RHC	REMOVED HSE LINE (FROM W-P-2831) TO REACT WITH P-99A. REVISIONS FLOW ON BYPASS LINE. CONT. COORDINATES. REVISION FLOW ARROW TO TK-66A.
1	6/15/86	JDM	DWS	RHC	INCORP ECA'S 19/181718, 19/181722A, 19/181727A, AND BORON REV. 11
8	1/15/86	SD	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DESIGN	CHNG	CE	DESCRIPTION

**FPL ENERGY**

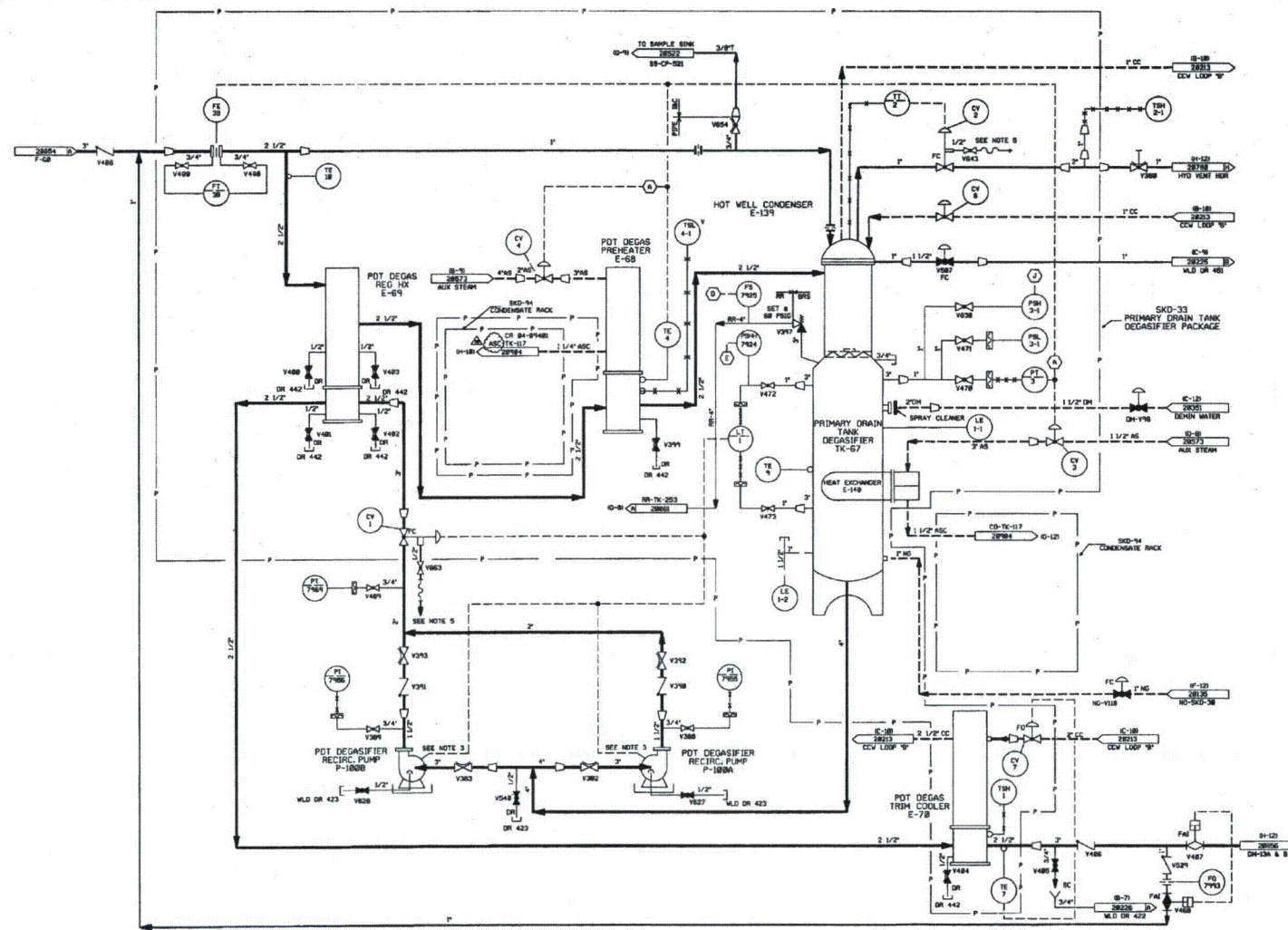
Seabrook Station

**BORON RECOVERY SYSTEM  
DEGASIFICATION  
DETAIL**

PID- 1-BRS-B20854

9/17/87

PID-1-BRS-B20855



RECORDS MANAGEMENT DEPT.  
CONTROL NUMBER

REV	DATE	BY	CHKD	DESCRIPTION
1	12/84/84	JM	JM	ISSUED FOR OPERATIONS
2	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
3	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
4	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
5	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
6	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
7	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
8	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
9	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
10	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING P&ID - LEGEND 1 AND P&ID - LEGEND 2

## NOTES

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEMS IDENTIFIED UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DWG'S 20853, 20854, 20855, 20856, 20857, 20858, 20859, 20860 & 20861.
3. SET ONE IN-OR-OUT FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
4.  $\Delta$  INDICATES REVISION LEVEL.
5. REFER TO DRAWING YL-20774 FOR VALVE LEADOFF.
6. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS AND UNLESS NOTED OTHERWISE.
7. INSTRUMENT REFERENCES:
  - (A) TO 1-BRS-CY-3 & 4 ON DWG AG-20873 ID-10.
  - (B) TO 1-BRS-CY-3, 1-BRS-CY-4 ON DWG AG-20873 ID-10.
  - (C) TO 1-BRS-P-100 & 8 ON DWG BRS-20854 ID-10 ID-10.
  - (D) TO 1-BRS-P-100 ON DWG BRS-20854 ID-10.

REV	DATE	BY	CHKD	DESCRIPTION
1	12/84/84	JM	JM	ISSUED FOR OPERATIONS
2	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
3	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
4	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
5	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
6	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
7	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
8	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
9	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
10	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM

REV	DATE	BY	CHKD	DESCRIPTION
1	12/84/84	JM	JM	ISSUED FOR OPERATIONS
2	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
3	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
4	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
5	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
6	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
7	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
8	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
9	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM
10	1/28/85	JM	JM	REVISIONS FOR BORON RECOVERY SYSTEM

17513-F-005510 10 BORON RECOVERY SYSTEM FROM DRAIN TANK DEGAS P&ID

REV. DATE BY CHKD DESCRIPTION

17513-F-005510 10 BORON RECOVERY SYSTEM FROM DRAIN TANK DEGAS P&ID

REV. DATE BY CHKD DESCRIPTION

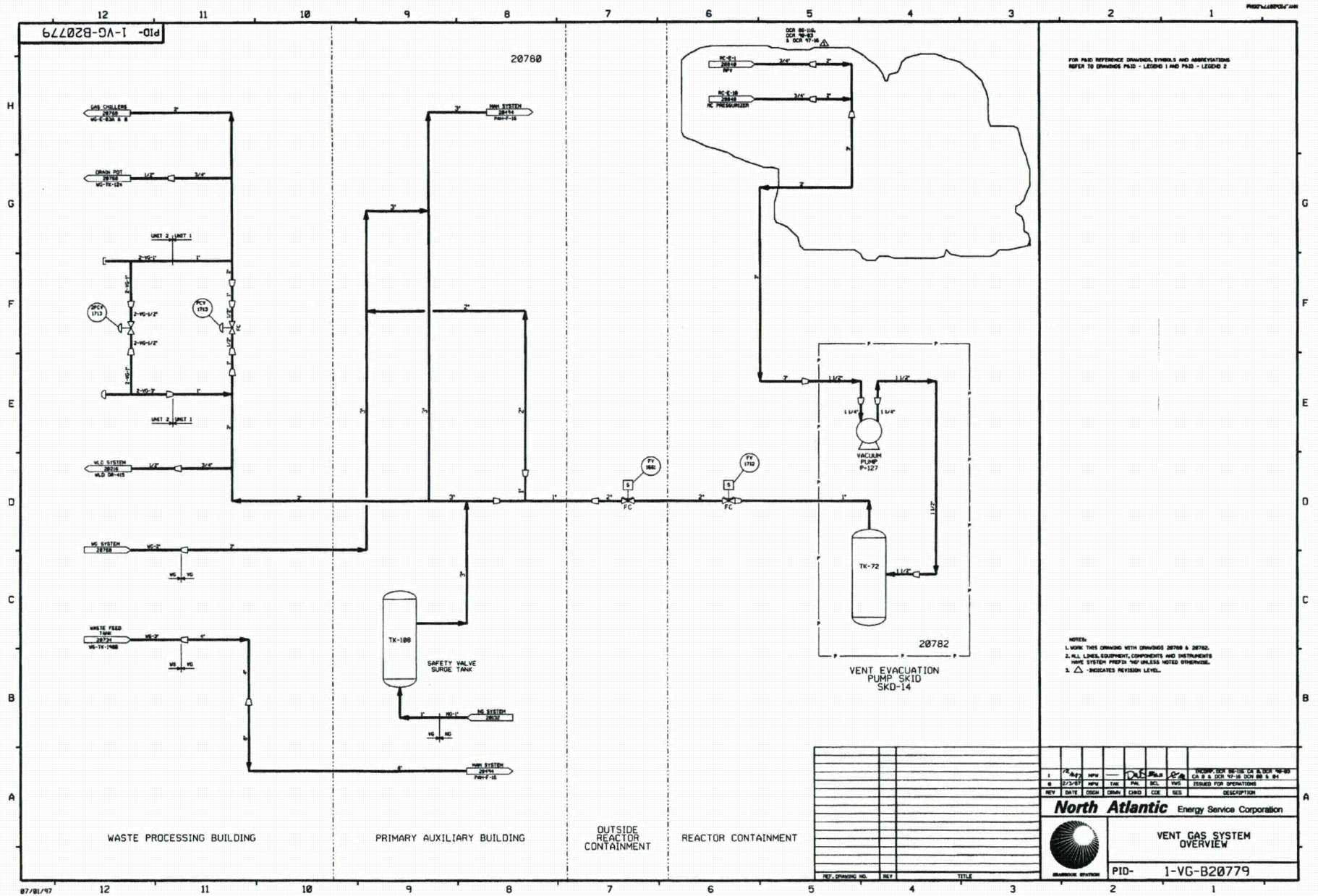
17513-F-005510 10 BORON RECOVERY SYSTEM FROM DRAIN TANK DEGAS P&ID

REV. DATE BY CHKD DESCRIPTION

17513-F-005510 10 BORON RECOVERY SYSTEM FROM DRAIN TANK DEGAS P&ID

REV. DATE BY CHKD DESCRIPTION











NOTES:

1. WORK THIS DRAWING WITH 28788E.
2. SYSTEM DESCRIPTION NO. 54, 3A.
3. SYSTEM PRESSURE IS NOT UNLESS OTHERWISE NOTED.
4. SYSTEM DESIGN PRESSURE (EXCLUDING PUMP) 150 PSIG.
5. PUMP DESIGN PRESSURE 150 PSIG.
6. SYSTEM DESIGN TEMPERATURE 100°F.
7. VACUUM BREAKER ASSEMBLY CONSISTING OF 1-08081, 1-08091, 1-08092, AND 1-08093 SET AT 28 IN. HG. VAC.
8. VALVE 1-08091 IS SET TO PERMIT FLOW TO MAINTAIN 1/2 IN. HG. VAC.
9. ALL PUMP AND INSTRUMENTS AND SAFETY CLASSES UNLESS NOTED OTHERWISE.

△

10. DURING PERIODS OF PRESSURIZER PURGING, 1-08092-143 MAY BE INSTALLED IN PLACE OF 1-08092-143. SEE 1-08092-143 FOR DETAILS.

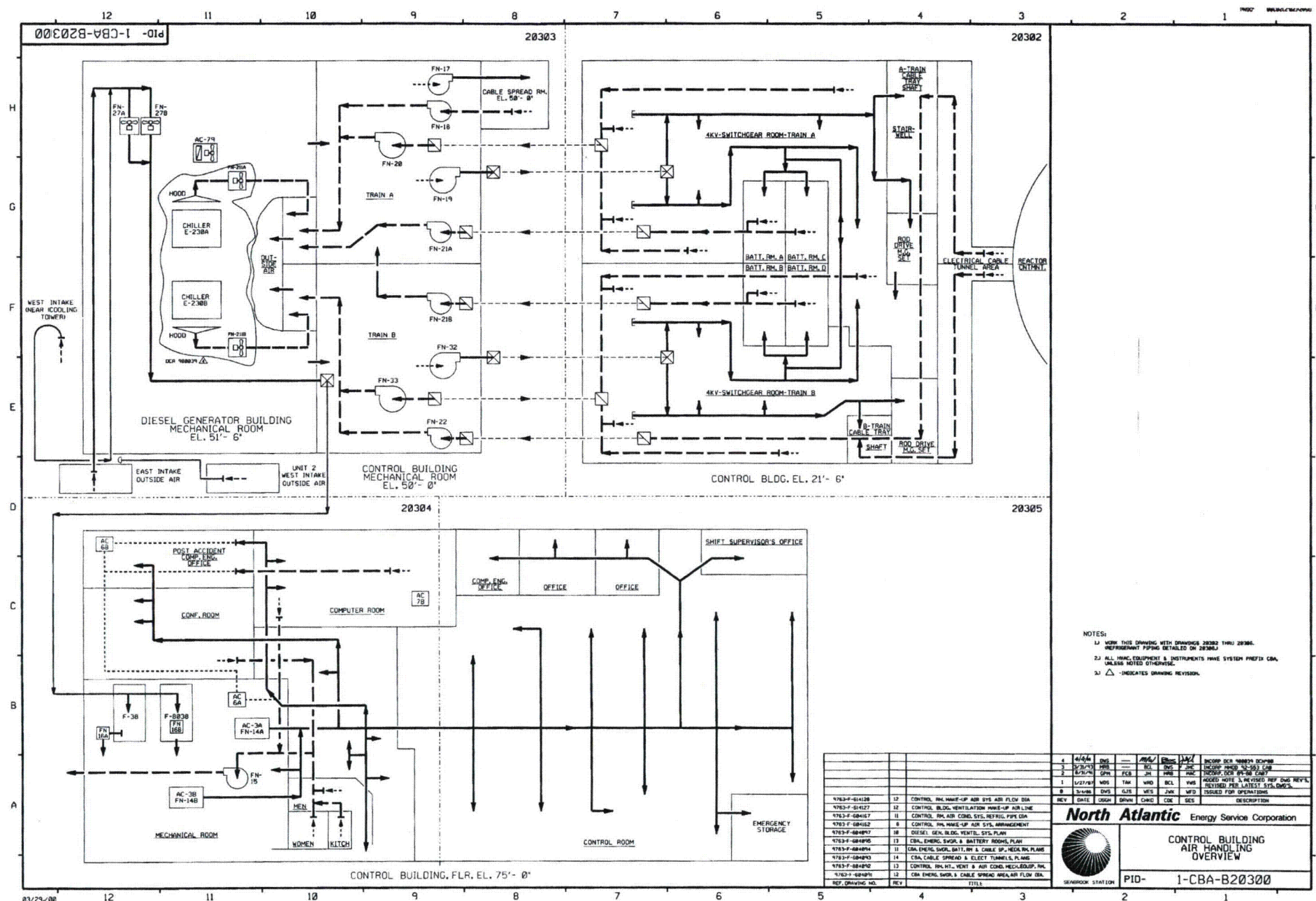
△

11. FLEX HOSE 1-08092 IS STORED LOGGED AND INSTALLED AS NEEDED FOR SYSTEM OPERATION. CAP INSTALLED WHEN NOT IN USE.


ACR 86-0608

PID-	1-VG-B20782
------	-------------





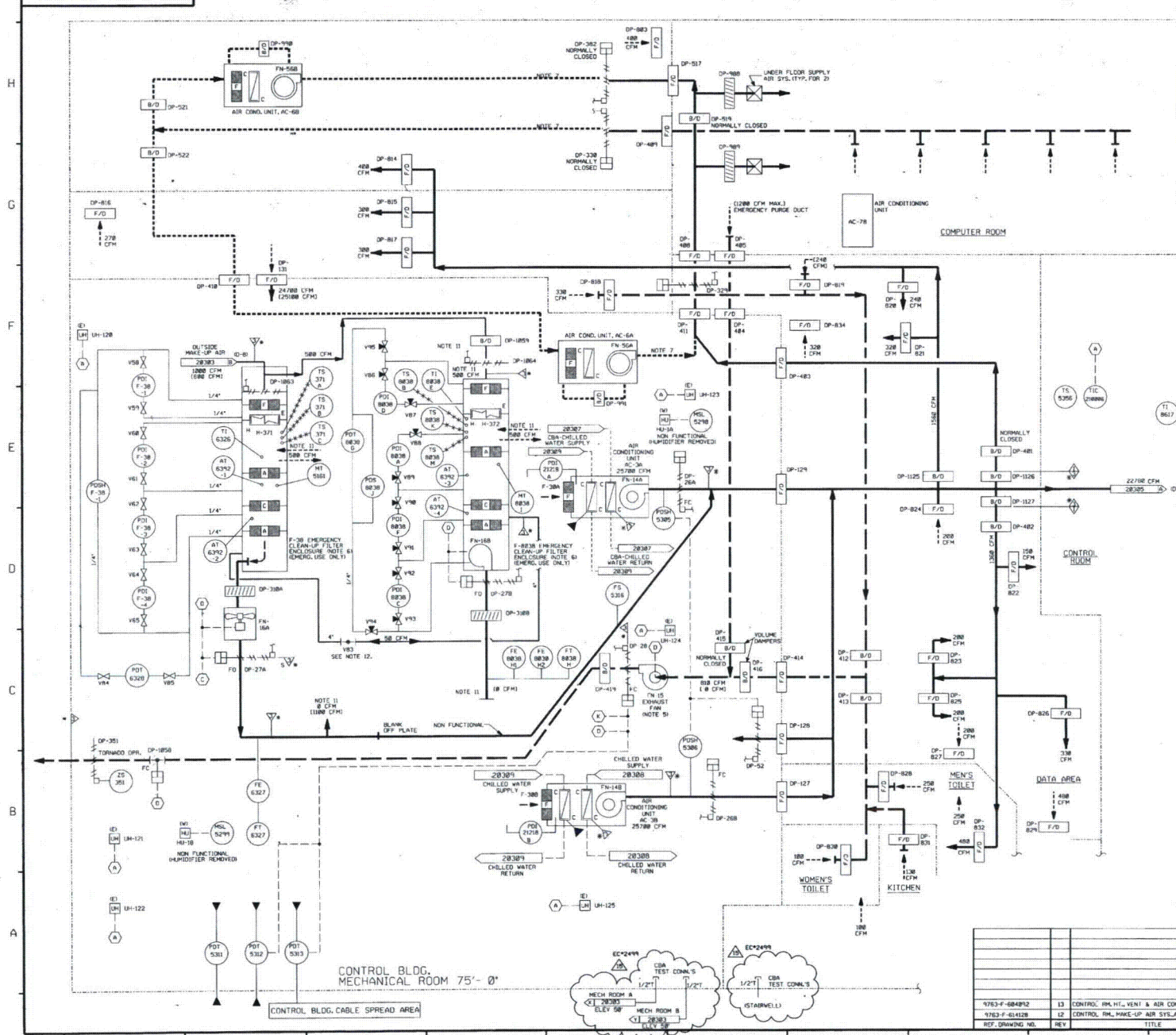
NOTES:

- 1.) WORK THIS DRAWING WITH DRAWINGS 28382 THRU 28386.  
REFRIGERANT PIPING DETAILED ON 28384.
- 2.) ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA  
UNLESS NOTED OTHERWISE.
- 3.)  -INDICATES DRAWING REVISION.

[illegible]



PID-1-CBA-B20304



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20300, 20302, 20303, 20305 & 20306.
2. ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX "CBA", UNLESS NOTED OTHERWISE.
3. FOR SYMBOLS, LEGEND SEE DRAWING 20302.
4. INSTRUMENT REFERENCES:

FAN TAG NUMBER	FAN TAG NUMBER	FAN TAG NUMBER	FAN TAG NUMBER	FAN TAG NUMBER	FAN TAG NUMBER
CBA-F-38	CBA-F-39	CBA-F-40	CBA-F-41	CBA-F-42	CBA-F-43
CBA-F-44	CBA-F-45	CBA-F-46	CBA-F-47	CBA-F-48	CBA-F-49

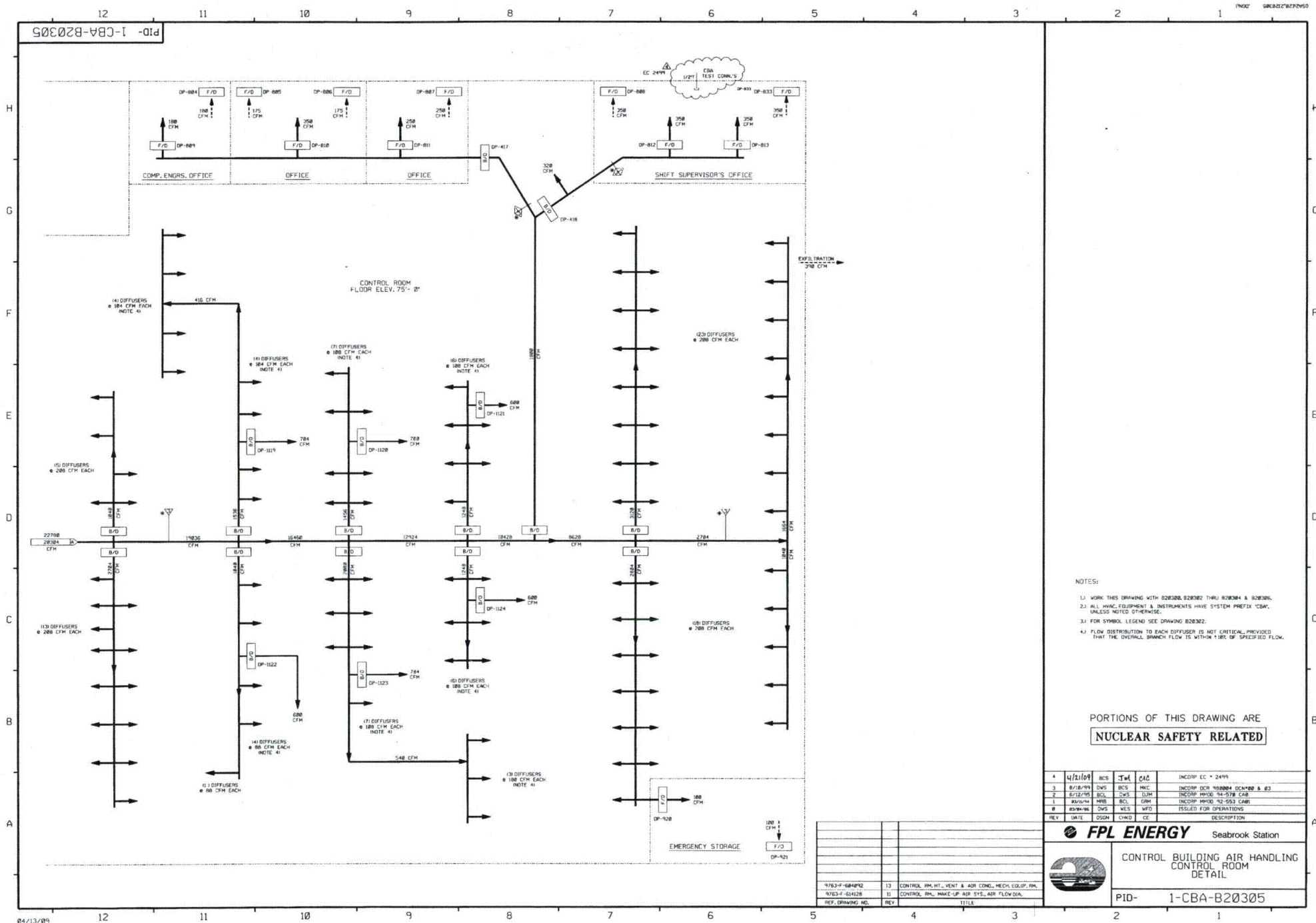
PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

REV	DATE	BY	CHKD	DESCRIPTION
1	5/23/86	JOH	YNS	ISSUED FOR OPERATIONS & DAMPER NUMBER.
2	2/24/87	JOH	YNS	ISSUED FOR OPERATIONS & DAMPER NUMBER.

**FPL ENERGY** Seabrook Station

CONTROL BUILDING AIR HANDLING MECHANICAL ROOM ELEVATION 75'-0" DETAIL

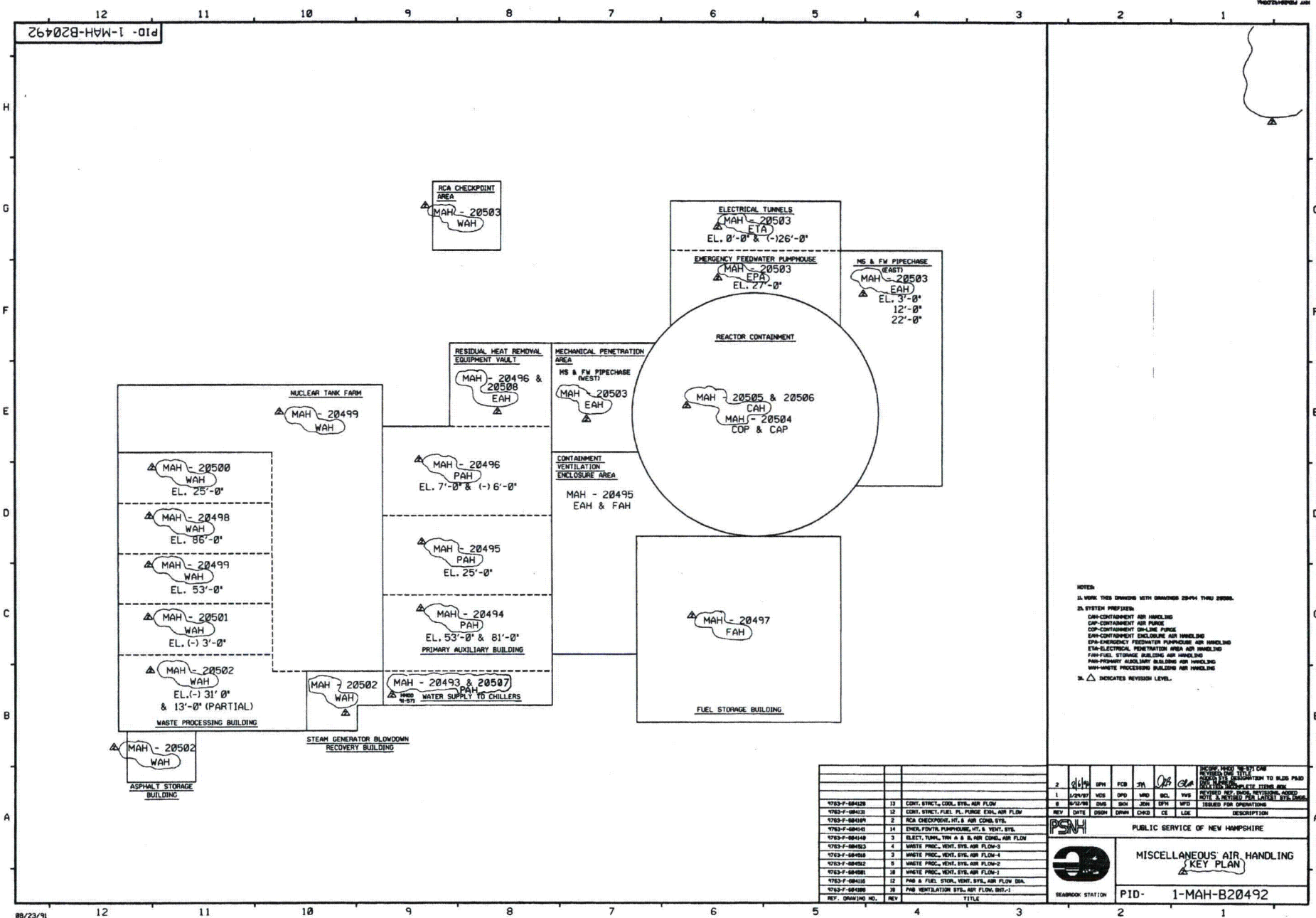
PID-1-CBA-B20304

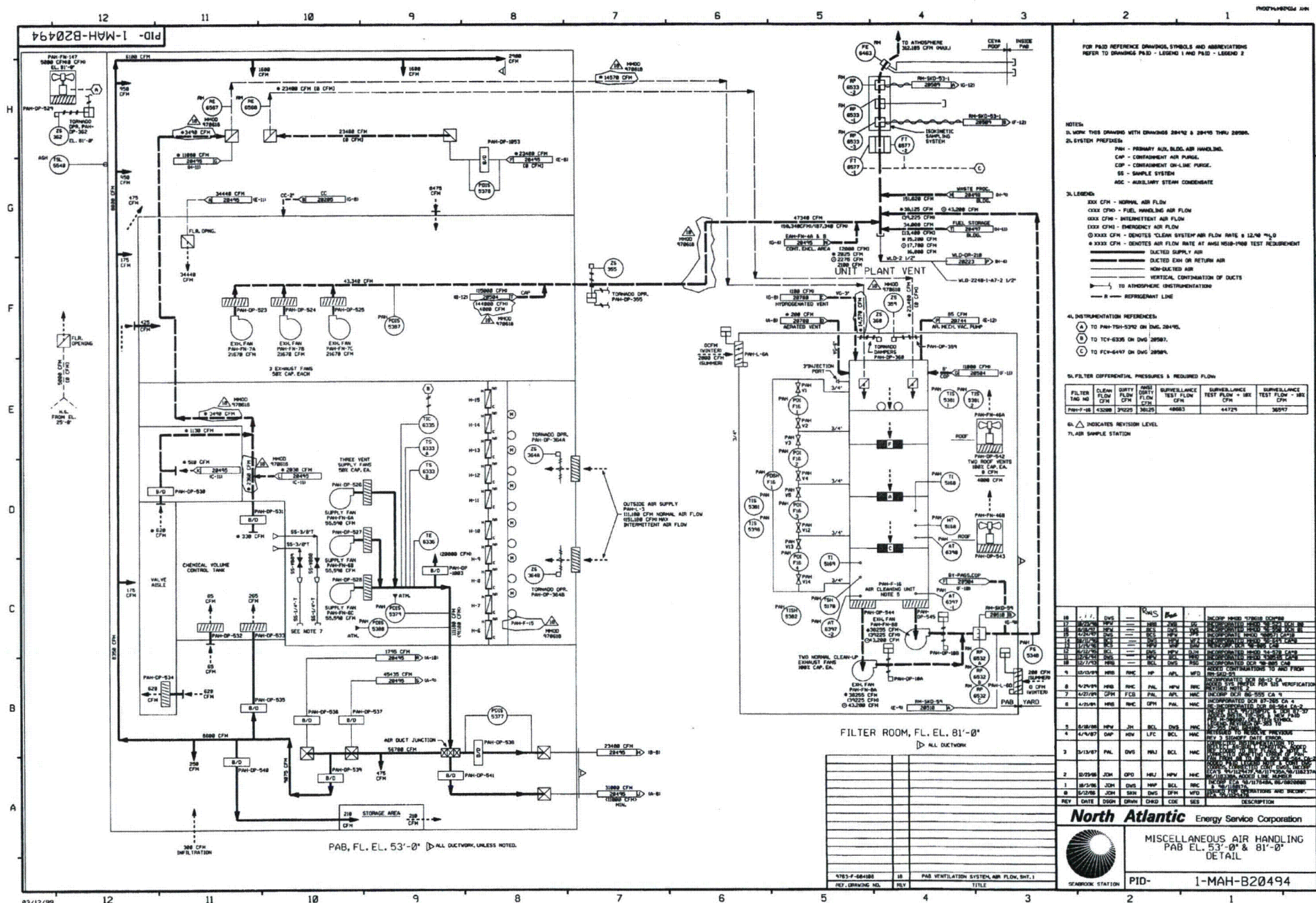




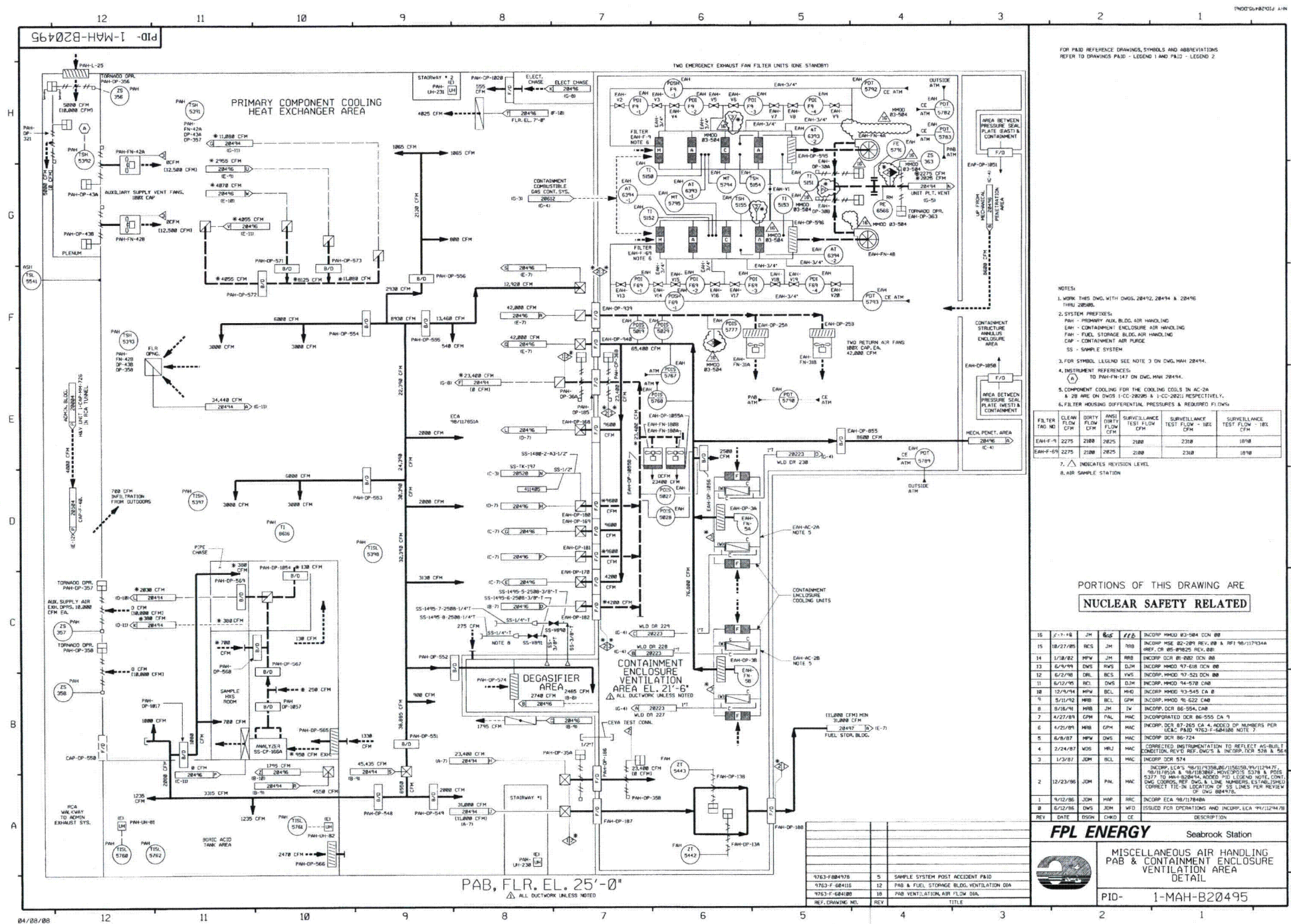












FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATION  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

**NOTES**

1. WORK THIS DWG. WITH DWGS. 28492, 28494 & 28496  
THRU 28080.
2. SYSTEM PREFIXES:  
PAH - PRIMARY AUX. BLDG. AIR HANDLING  
EAH - CONTAINMENT ENCLOSURE AIR HANDLING  
FAH - FUEL STORAGE BLDG. AIR HANDLING  
CAP - CONTAINMENT AIR PURGE  
SS - SAMPLE SYSTEM
3. FOR SYMBOL, LEGEND SEE NOTE 3 ON DWG. MAH 28494.
4. INSTRUMENT REFERENCES:  
(A) TO PAH-FIN-147 ON DWG. MAH 28494.
5. COMPONENT COOLING FOR THE COOLING COILS IN AC-2A  
& 2B ARE ON DWGS 1-CC-28005 & 1-CC-28021, RESPECTIVELY.  
A FURTHER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS

FILTER TAG NO	CLEAN FLOW CFM	DIRTY FLOW CFM	ANSI DIRTY FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW - 10% CFM	SURVEILLANCE TEST FLOW - 10% CFM
EAH-F-9	2275	2100	2025	2100	2310	1870
EAH-F-69	2275	2100	2025	2100	2310	1870

7.  $\Delta$  INDICATES REVISION LEVEL  
8. AIR SAMPLE STATION

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

15	5-7-78	JM	REC	REC	INCPY:MMOD 83-284 DCN 88
16	10/27/85	RCS	JM	7808	INCPY:MMO 82-209 REC 8; & RFI 86-171734A REF: CR 82-PMCS 103
17	6/24/94	HPW	HPW	8	INCPY:DCR 81-002 DCN 88
18	6/24/94	DWS	DJW	8	INCPY:DCR 87-618 DCN 88
12	6/27/98	DRL	BLS	5	INCPY:MMOD 87-521 DCN 88
11	6/12/95	BCL	DJW	8	INCPY:MMO 84-743 CDB
10	6/12/95	HPW	BCL	8	INCPY:MMO 83-125 CDB
9	5/12/92	HPW	BCL	GM	INCPY:MMOD 86-522 CDB
8	8/16/84	HPW	JW	14	INCPY:DCR 86-554 CDB
7	4/27/89	CPH	FAL	MAG	INCPY:CORDED 86-855 DA 9
6	4/25/89	HPW	CPH	MAG	INCPY:COR 87-265 CA 4; ADDD. OF NUMBERS PER LEAD FAL 7807 83-273-684000 NOTE 7
5	6/8/87	HPW	MAG	8	INCPY:DCR 86-724
4	2/24/87	WOS	WBJ	8	COMBINED INSTRUMENTATION TO SELECT AS-BUL-1 EXHIBITION, REV'D REC-DWG'S & INCPY:DCR 86-586
3	1/3/87	HPW	REC	874	INCPY:DCR 87-574
2	2-23/89	JM	FAL	MAG	INCPY:LEADS 86-171733B,86-11565,86-112947, 86-11181A & 86-11808,86-12534 & POSTS 7212 TO 86A15804A, 86-12534 & 86-12534 INCPY:COR, REC-DWG'S & LINE NUMBERS EXHIBIT-388 FOR TECHNICAL REVIEW OF 86-112947 & 86-11808
1	9/12/86	HPW	REC	874	INCPY:DCR 86-574
8	6/12/86	HPW	WFO	8	ISSUED FOR OPERATIONS AND INCPY:LEADS 86-112947A
REV	DATE	ISSN	CHD	CD	DESCRIPTION

**FPL ENERGY**

Seabrook Station

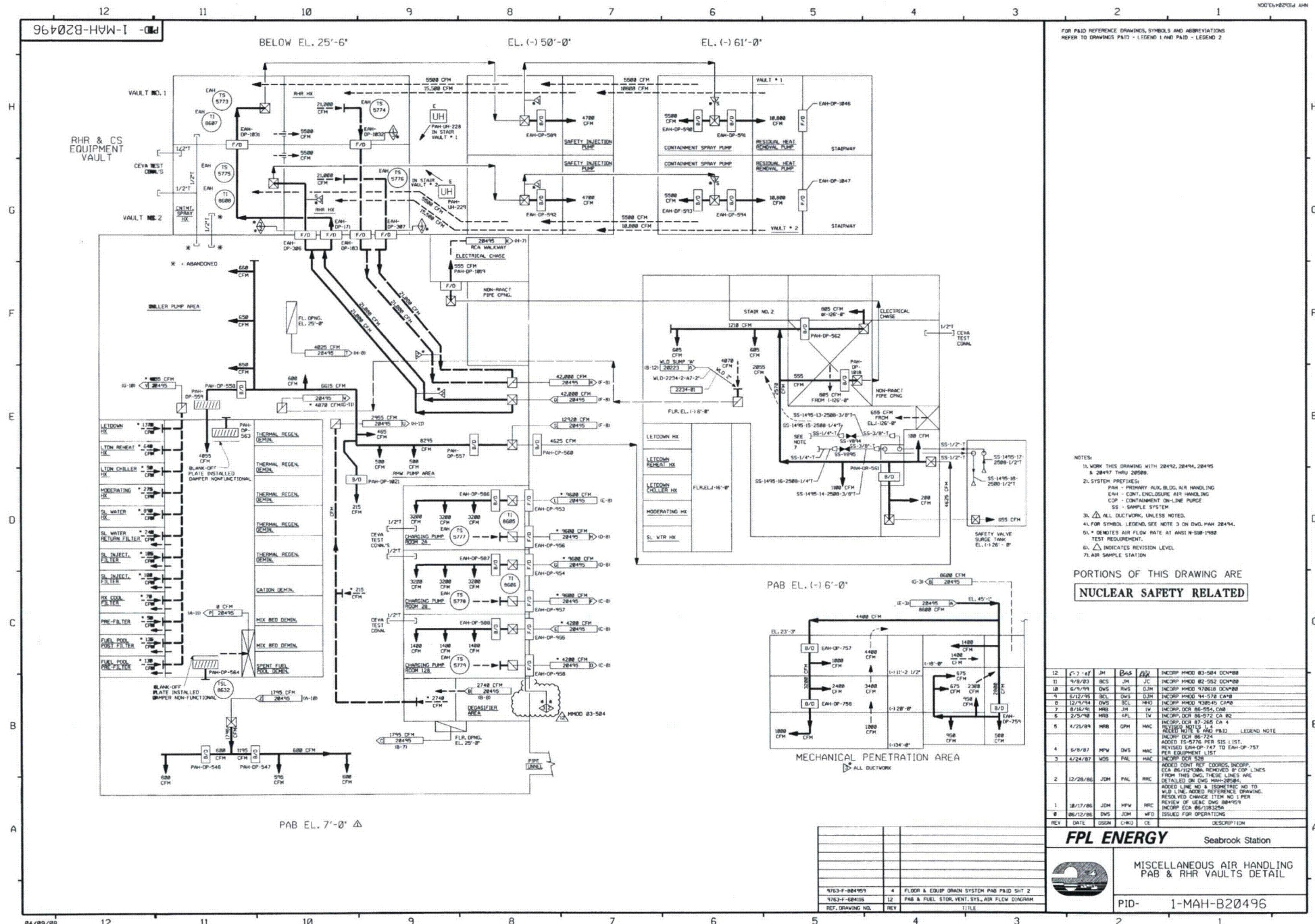


MISCELLANEOUS AIR HANDLING  
PAB & CONTAINMENT ENCLOSURE  
VENTILATION AREA  
DETAIL

PID-	1-MAH-B20495
------	--------------



961028-HAW-I -01



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH 28410, 28414, 28415  
& 28417 THRU 28488
  2. SYSTEM PRELIMINARIES:  
PAH - PRIMARY AIR HANDLING  
EAH - CONT. ENCLOSURE AIR HANDLING  
COP - CONTAINMENT ON-LINE PURGE  
SS - SAMPLE SYSTEM
  3. ALL DUCTWORK, UNLESS NOTED
  4. FOR SYMBOL LEGEND, SEE NOTE 3 ON ENCL. PAB 28414
  5. \* DENOTES AIR FLOW RATE AT ANCH N-508-1908  
TEST REQUIREMENT.
  6. Δ INDICATES REVISION LEVEL
  7. AIR SAMPLE STATION

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

REV	DATE	BY	CHKD	DESCRIPTION
12	7-7-87	JM	Bas	INCRP HMOO 83-584 DCM#88
11	9/8/83	BKS	JM	INCRP HMOO 82-552 DCM#88
10	6/7/79	DWS	DWS	INCRP HMOO 79-580 DCM#88
9	6/27/78	BKS	DWS	INCRP HMOO 78-512 CA#8
8	12/17/74	DWS	BKS	INCRP HMOO 74-512 CA#8
7	8/15/74	HMB	JM	INCRP DCM 86-554 CA#8
6	2/5/78	HMB	JM	INCRP DCM 86-572 CA#8
5	4/21/79	HMB	JM	INCRP DCM 87-264 CA#4 LEGEND NOTE
4	5/8/87	HPV	DWS	INCRP DCM 87-264 CA#4 REVISED EAH-OP-747 TO EAH-OP-757 PER EQUIPMENT LIST
3	4/24/87	WFS	WFS	INCRP DCM 83-584
2	12/28/86	JOM	PAL	ADDED CONT. REF. COORDS. INCRP E.A.H. BR/STATIONS. REVISED BY COW LINES FROM THIS Dwg. THESE LINES ARE DETAILED ON COW MAN-28414. ADDED LINE NO. 4 (ISOMETRIC NO. 10) W.D. LINE. ADDED REFERENCE DRAWING. REVISED CHANGE ITEM NO. 1 PER REVIEW OF W.D. Dwg. 8/18/86.
1	18/17/86	JOM	HPV	INCRP ECA 86/118254
0	86/12/86	DWS	JOM	INCRP ECA 86/118254

**FPL ENERGY** Seabrook Station



MISCELLANEOUS AIR HANDLING  
PAB & RHR VAULTS DETAIL

PID- 1-MAH-B20496

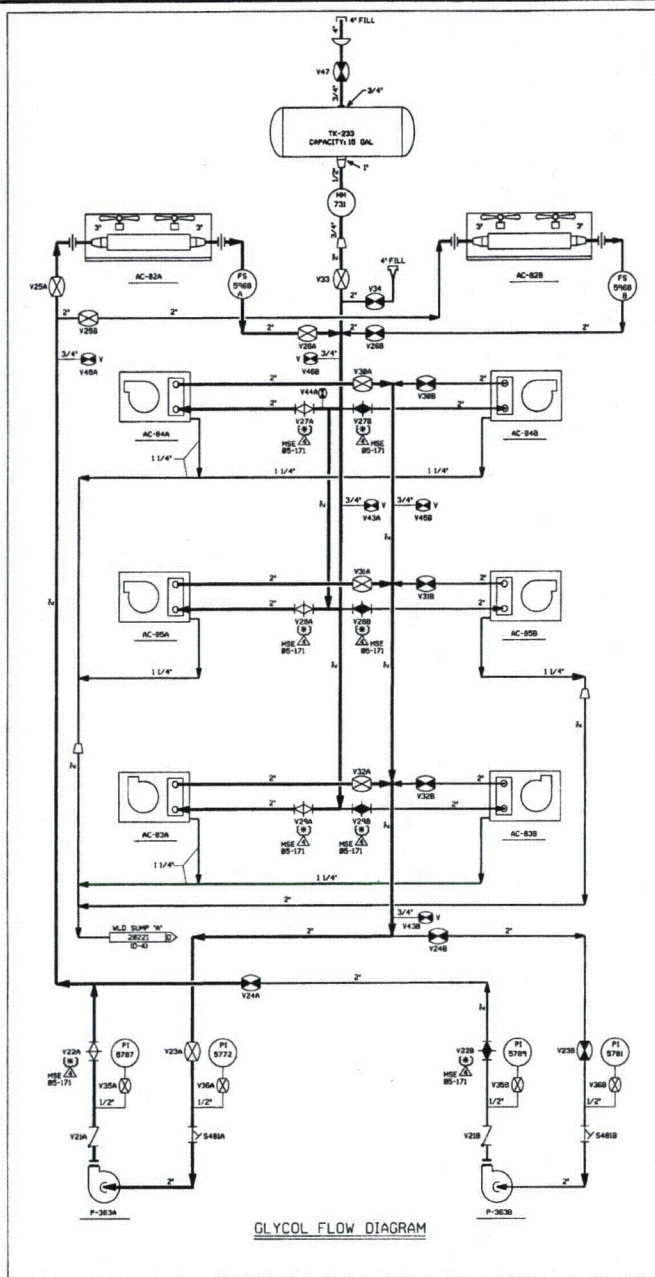
REV	DATE	BY	CHKD	DESCRIPTION
4	7/6/87	Bas	Bas	FLOOD & EQUIP DRAIN SYSTEM PAB SHIT 2
12	7/6/87	Bas	Bas	PAB & FUEL STOR. VENT. SYS. AIR FLOW DIAGRAM
REF. DRAWING NO.				TITLE



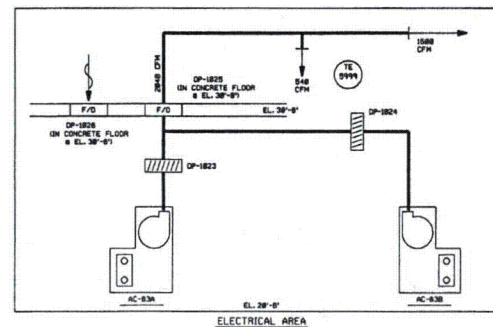




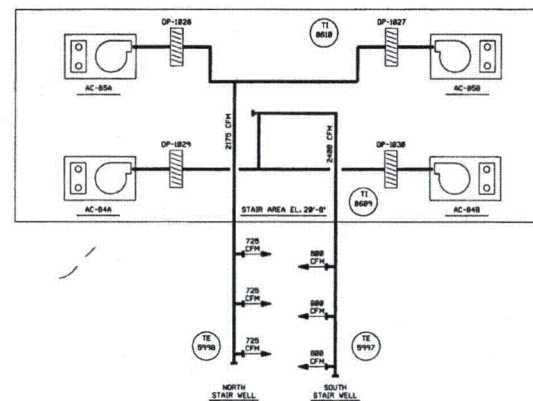
80508-1-MAH-B20508



GLYCOL FLOW DIAGRAM



ELECTRICAL AREA



AIR FLOW DIAGRAM

FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28442 & 28444  
THRU 28457.
  2. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SYSTEM  
PREFIX UNLESS OTHERWISE NOTED.
  3. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SAFETY  
CLASS UNLESS OTHERWISE NOTED.
  4. - INDICATES REVISION LEVEL.

IF THESE VALVES ARE SUBJECT TO A PART SUBSTITUTION AUTHORIZED  
BY BOWMETAL VALVE SYMBOL, THEY MAY NOT REFLECT INSTALLED VALVE TYPE. DRAWING  
UPDATES WILL BE MADE UPON RECEIPT OF FORM MM 5447.

REV	DATE	BY	CHKD	DESCRIPTION
1	3/14/87	WDS	PAL	ADDED NOTE 4, REVISED REF DWG REVISION, INCOMP. OUR 5447.
2	6/10/88	JDK	DWS	ISSUED FOR OPERATIONS
3	1/22/91	WDS	JM	INCOMP. ECA 88/1177848 REVISED, NOTE 3.
4	5/14/97	WDS	JM	ADDED FORM CPM DESIGNATION
5	1/22/91	WDS	JM	INCOMP. ECA 88/1177848 REVISED, NOTE 3.
6	3/14/87	WDS	PAL	ADDED NOTE 4, REVISED REF DWG REVISION, INCOMP. OUR 5447.
7	6/10/88	JDK	DWS	ISSUED FOR OPERATIONS
8	1/22/91	WDS	JM	INCOMP. ECA 88/1177848 REVISED, NOTE 3.
9	5/14/97	WDS	JM	ADDED FORM CPM DESIGNATION
10	3/14/87	WDS	PAL	ADDED NOTE 4, REVISED REF DWG REVISION, INCOMP. OUR 5447.
11	6/10/88	JDK	DWS	ISSUED FOR OPERATIONS
12	1/22/91	WDS	JM	INCOMP. ECA 88/1177848 REVISED, NOTE 3.

**FPL ENERGY** Seabrook Station

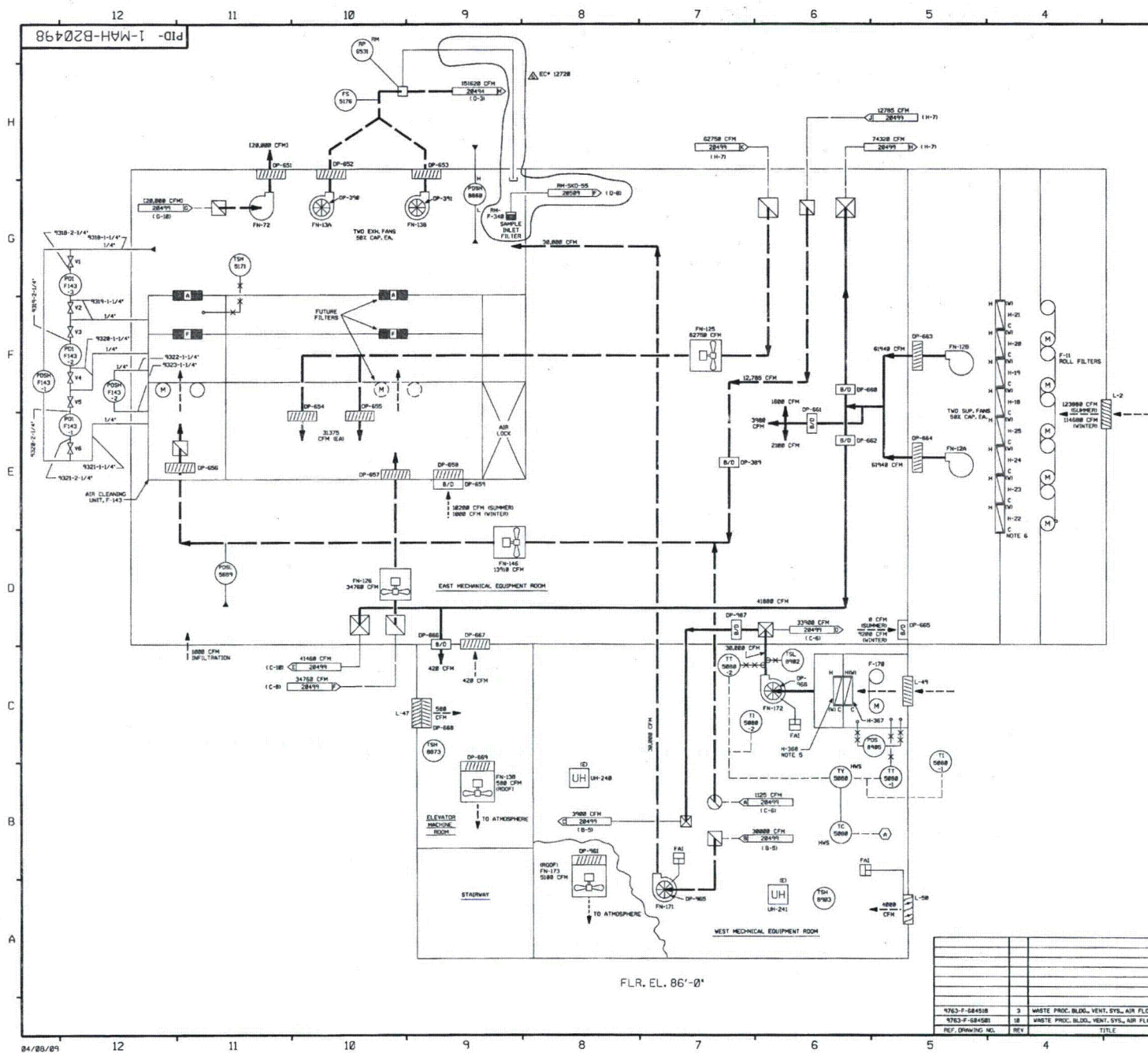


GLYCOL, AIR FLOW DIAGRAM  
AC SYSTEM  
ELECTRICAL VAULT & STAIRS

PID- 1-MAH-B20508

09/28/07





FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2


- NOTES:
- 1) WORK THIS DRAWING WITH 28442, 28444 THRU 28447 & 28449 THRU 28858.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WASTE PROCESSING BLDG. AIR HANDLING UNLESS NOTED.
  - 3) FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. 28044.
  - 4) INSTRUMENT REFERENCE:
    - A) TO HAS-TCV-5808 ON DWG. 1W-28858
  - 5) H-267 IS LOCATED ABOVE H-368 IN PLenum FOR HEATER PIPING SEE DRAWING 1W-28858.
  - 6) H-18 THRU H-25 HEATER PIPING SEE DRAWING 1W-28858.
  - 7) ALL DUCTWORK UNLESS NOTED.
  - 8) FILTER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS:

FILTER TAG NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	AMEI FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW +10% CFM	SURVEILLANCE TEST FLOW +10% CFM
WAF-F-143	15200	14800	13300	14200	15620	12710

1) Δ INDICATES REVISION LEVEL.

1B) UNLESS SPECIFIED ALL LINE NUMBERS ARE SPEC 236-11.

REV	DATE	BY	CHKD	DESCRIPTION
1	1/15/99	JH	SCM	INCORPORATED EC+ 12728
2	8/2/99	HPV	SCM	REVISED INSTR. TAGS AND ADDED NEW PAID PER H-28858.
3	6/4/97	DMP	LFC	REVISED TO SOLVE PREVIOUS REV 3 SIGNOFF DATE ERROR.
4	3/13/97	HRU	DNS	REVISED INSTR. TAGS, SYMBOLS, AND TIE-IN LOC. CORRECTED DRAFTING ERRORS. REVISED NOTES 4 & 5. ADDED NOTE 9. A. BR. DISCUSS OCS RE. H-18.
5	12/23/96	JOH	PAH	CORRECTED FAN TAG NUMBER ADDED PAID LEGEND NOTE ADDED CONTINUATION DWG. CORRECTED INCORP. ECA REVISIONS.
6	9/2/96	HPV	JOH	INCORPORATED ECA 11/11/95/96.
7	8/28/96	JOH	DNS	ISSUED FOR OPERATIONS

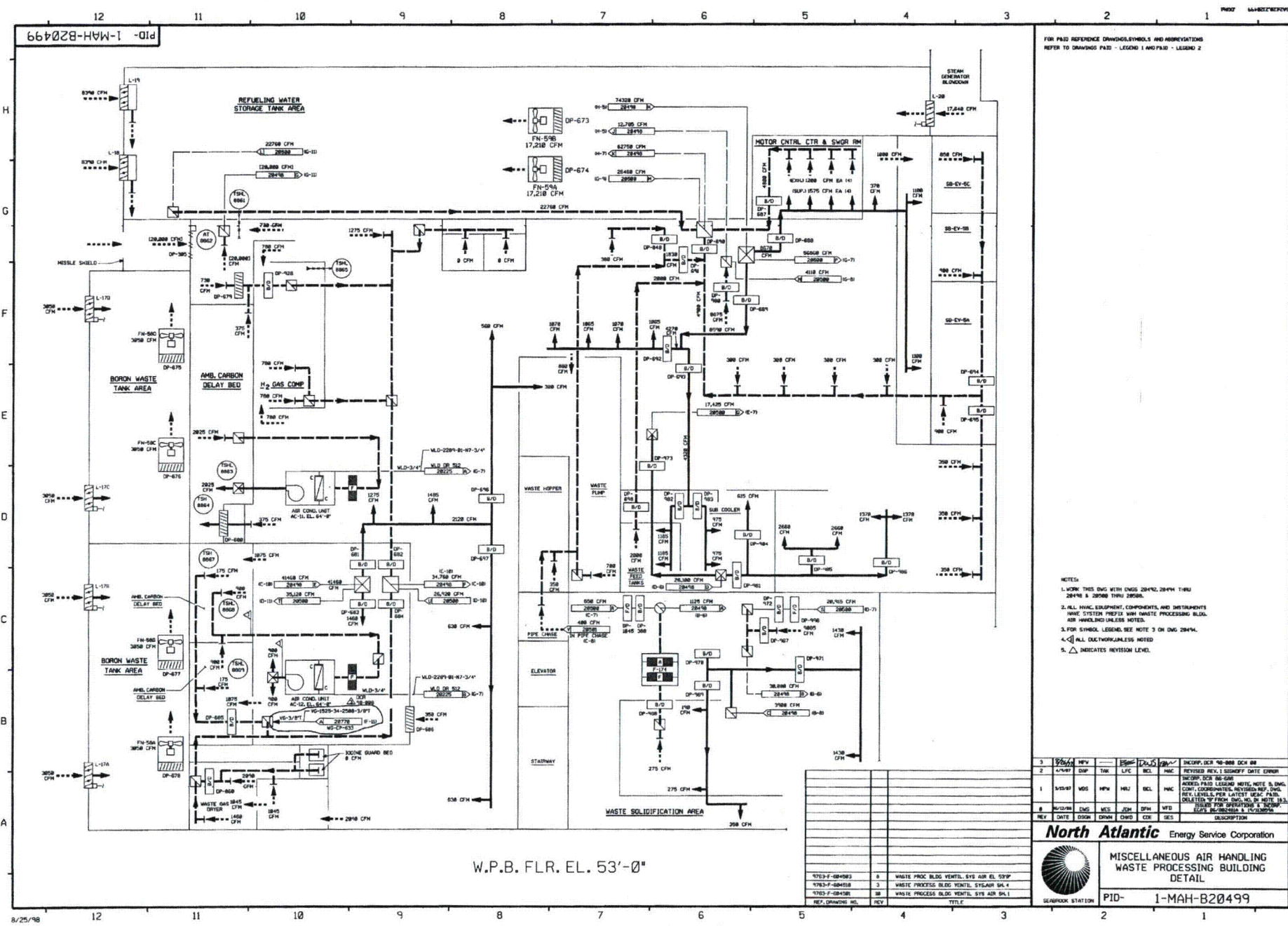


**FPL ENERGY**

Seabrook Station

MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20498

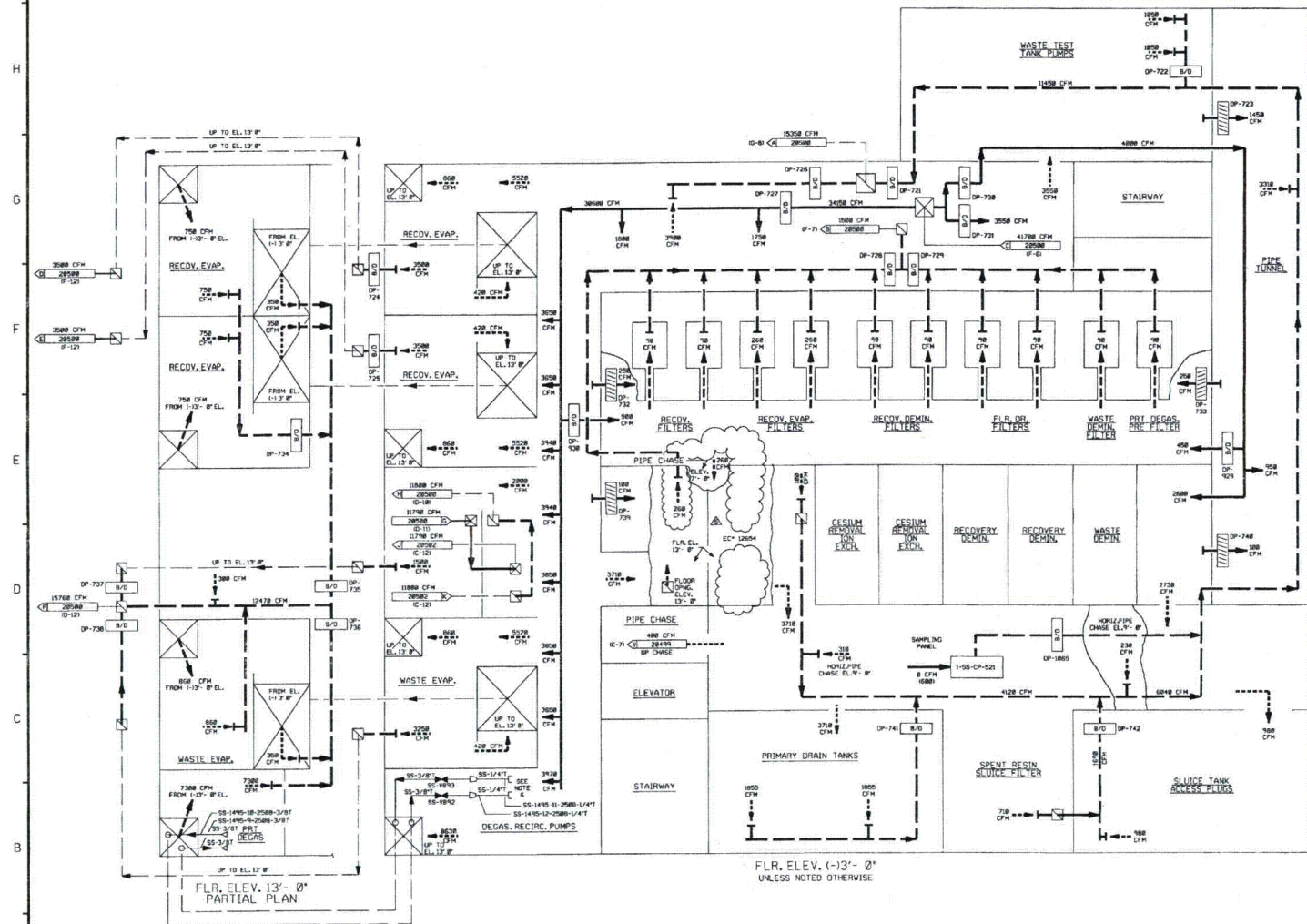






PID-1-MAH-B20501

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20492, 20494 THRU 20508 & 20502 THRU 20504.
  2. ALL HVAC EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MAY WASTE PROCESSING BUILDING AIR HANDLING UNLESS NOTED OTHERWISE.
  3. FOR SYMBOL LEGEND SEE NOTE 3 ON DRAWING 20494.
  4.  $\Delta$  INDICATES REVISION LEVEL.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6.  $\Delta$  AIR SAMPLE STATION.

5	5/1/94	REC	JM	DL	INCORP. ECH 10054
4	5/26/91	WBS	PA	W	INCORPORATED DCR 87-118 CA 11
3	4/2/91	WBS	DPH	MAC	INCORPORATED DCR 87-265 CA 4
2	4/1/87	DPH	LFC	MAC	REVISED REV. 1 SECONDARY DATE TIROR
1	5/13/87	WEL	DPH	MAC	NOTED CONTINUATION PLUM CORRECT AND NOTES REVISED AIR FLOW PER LEAC. INCORP. ECH 86-505
0	5/13/86	DWS	JOM	WFO	ISSUED FOR OPERATIONS
REV	DATE	BY	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK

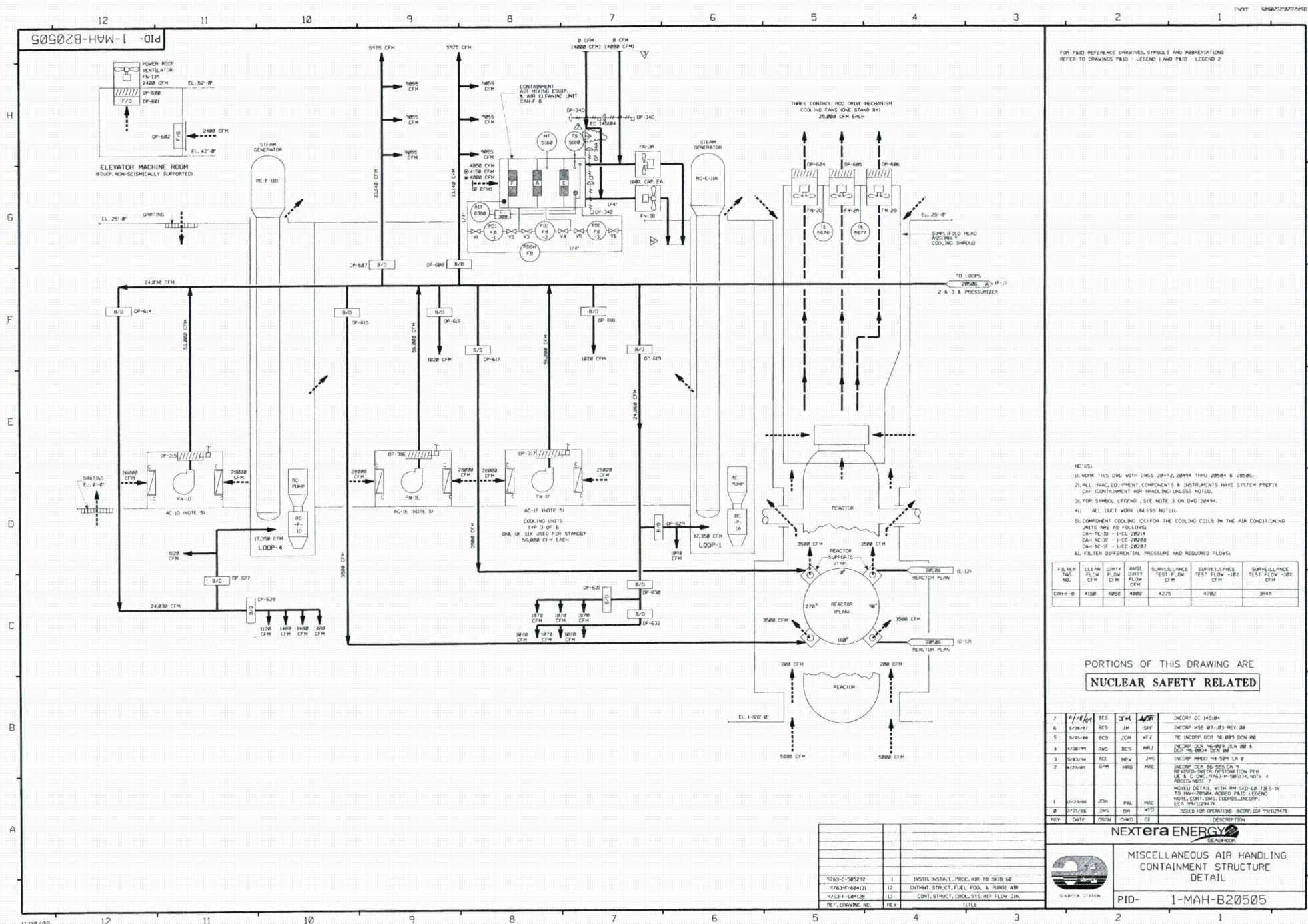
MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID-1-MAH-B20501

REV	DATE	BY	CHKD	CE	DESCRIPTION
4	5/1/94	REC	JM	DL	INCORP. ECH 10054
3	4/2/91	WBS	DPH	MAC	INCORPORATED DCR 87-265 CA 4
2	4/1/87	DPH	LFC	MAC	REVISED REV. 1 SECONDARY DATE TIROR
1	5/13/87	WEL	DPH	MAC	NOTED CONTINUATION PLUM CORRECT AND NOTES REVISED AIR FLOW PER LEAC. INCORP. ECH 86-505
0	5/13/86	DWS	JOM	WFO	ISSUED FOR OPERATIONS







FOR PAID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DWGS. 20412, 20414, 20415, 20416 & 20418.
  2. ALL HVAC EQUIPMENT COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAH-CONTAINMENT AIR HANDLING UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. 20414.
  4. ALL DUCT WORK UNLESS NOTED.
  5. COMPONENT COOLING (CC) FOR THE COOLING COILS IN THE AIR CONDITIONING UNITS ARE AS FOLLOWS:  
CAH-AC-10 - 1-CC-20000  
CAH-AC-11 - 1-CC-20000  
CAH-AC-12 - 1-CC-20000
  6. FILTER DIFFERENTIAL PRESSURE AND REQUIRED FLOWS:

FILTER TAG NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	AVG. DIRTY FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW 100% CFM	SURVEILLANCE TEST FLOW 100% CFM
CAH-F-10	4150	4050	4000	4275	4700	3645

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

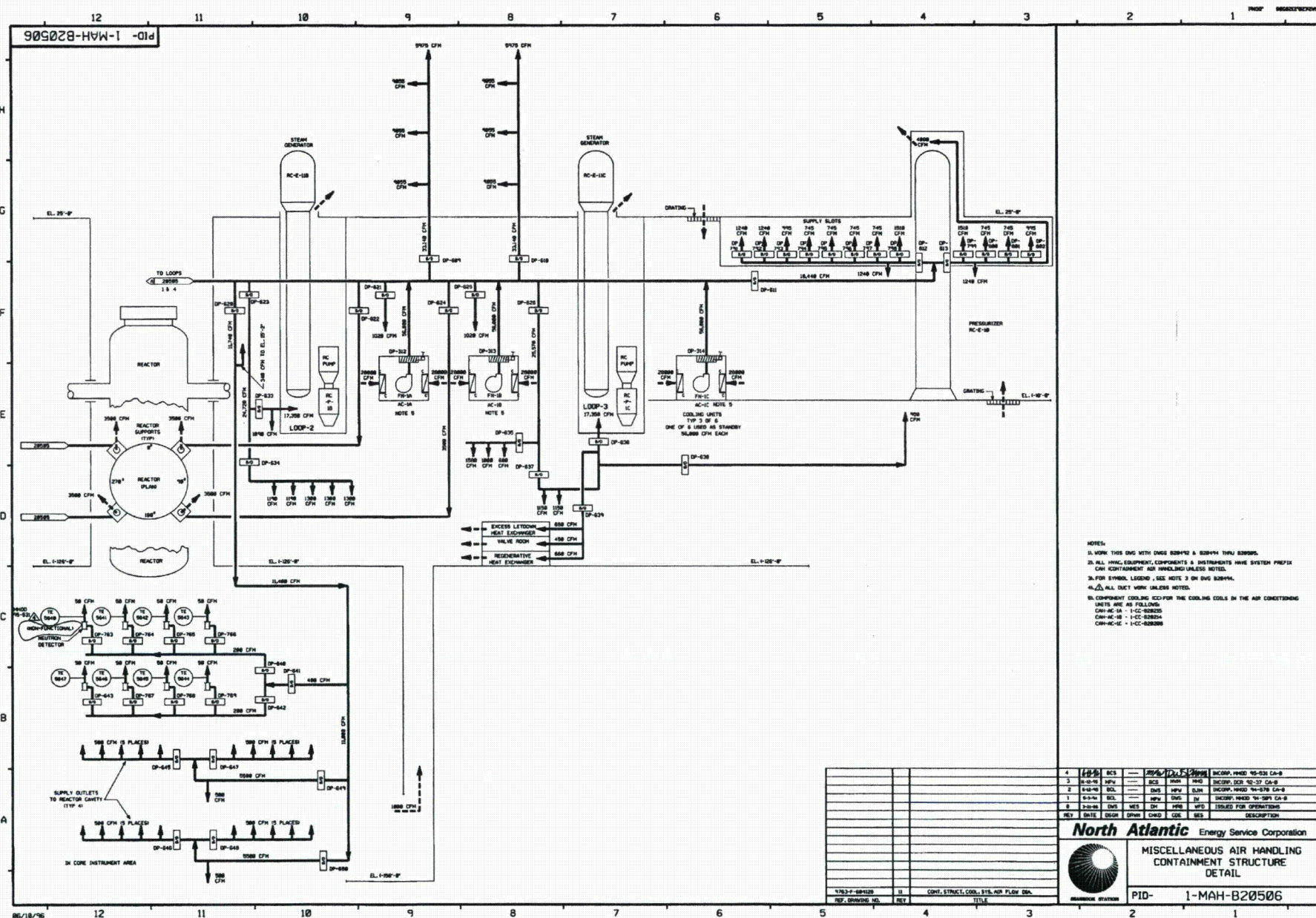
REV	DATE	BY	CHKD	DESCRIPTION
1	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
2	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
3	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
4	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
5	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
6	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
7	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
8	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
9	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
10	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
11	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
12	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
13	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
14	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
15	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
16	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
17	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
18	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
19	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
20	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
21	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
22	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
23	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
24	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
25	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
26	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
27	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
28	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
29	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
30	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
31	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
32	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
33	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
34	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
35	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
36	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
37	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
38	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
39	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
40	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
41	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
42	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
43	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
44	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
45	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
46	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
47	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
48	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
49	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
50	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
51	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
52	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
53	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
54	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
55	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
56	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
57	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
58	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
59	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
60	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
61	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
62	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
63	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
64	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
65	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
66	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
67	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
68	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
69	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
70	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
71	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
72	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
73	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
74	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
75	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
76	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
77	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
78	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
79	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
80	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
81	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
82	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
83	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
84	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
85	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
86	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
87	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
88	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
89	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
90	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
91	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
92	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
93	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
94	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
95	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
96	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
97	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
98	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
99	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60
100	11/10/89	JCM	PAH	INST. INSTALL. PROC. AIR TO SKID 60

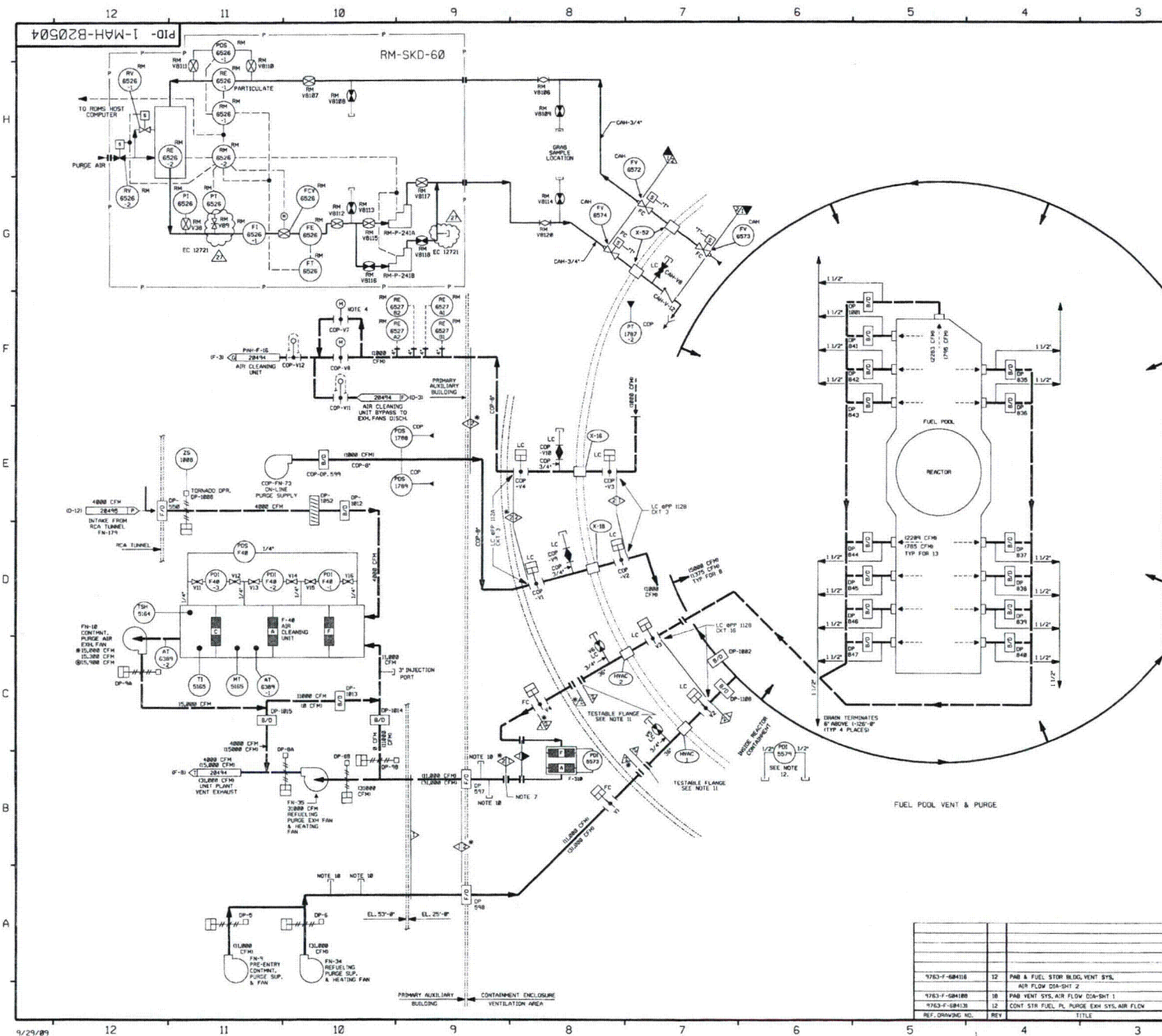
**NEXTERA ENERGY**

MISCELLANEOUS AIR HANDLING  
CONTAINMENT STRUCTURE  
DETAIL

PID- 1-MAH-B20505







FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

#### NOTES:

1. WORK THIS DRAWING WITH 28412, 28414, 28416, 28418, 28420 & 28422.
2. ALL PIPING, VALVES, EQUIP. COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAP (CONTAINMENT AIR PURGE) UNLESS NOTED. COP - CONTAINMENT ON-LINE PURGE.
3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. 28414.
4. VALVE COP-17 IS USED FOR THROTTLING.

#### 5. FILTER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS:

FILTER NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	AMSI COSTY FLOW CFM	SURVEILLANCE TEST FLOW +10% CFM	SURVEILLANCE TEST FLOW -10% CFM	SURVEILLANCE TEST FLOW -10% CFM
CAP-F-48	15000	15000	15000	15450	14550	13905

6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM SIDE OF THE OUTER ISOLATION VALVE PER 1-NH-88011 UNLESS OTHERWISE NOTED.
7. BLIND IS INSTALLED TO ISOLATE THE FILTER DURING MODES 1-4 NORMAL OPERATION. DURING MODES 5 & 6, OUTGASING THE BLIND WILL BE REMOVED TO ALLOW THE FILTER FOR OPERATION.
8.  $\Delta$  INDICATES REVISION LEVEL.
9. DOTTED LINE INDICATES REVISION AND LINE CAPPED.
10. TESTABLE FLANGES ARE INSTALLED DURING MODES 1-4 NORMAL OPERATION. DURING MODES 5 & 6, THE BLIND FLANGES WILL BE REMOVED AND TRANSITION PIECES INSTALLED.
11. POT FOR USE DURING REFUELING OUTGASING. ATTACH TEMP. TUBING TO HIGH SIDE AND ROUTE TO OUTSIDE AMBIENT.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

27	10/14/84	BGS	JM	570	INCORP EC12721
26	2/24/84	BGS	JM	570	INCORP MEX 87-009 REV. 8
25	4/24/84	BGS	JM	570	INCORP MEX 86-047 REV. 48
24	12/16/84	BGS	JM	570	INCORP CR 84-044 REV. 80
23	6/4/83	BGS	JM	570	INCORP 121114 FINAL CONFIGURATION PER LOCK 80-21 CON. 48
22	1/27/83	JM	570	570	INCORP CR 80-043 REV. 80, REVISED VALVE SYMBOL
21	10/29/82	DWS	BGS	570	INCORP DCR 80-003 REV. 80
20	6/2/82	DWS	BGS	570	INCORP MEX 80-003 REV. 80
19	6/2/82	DWS	BGS	570	INCORP MEX 80-003 REV. 80
18	12/2/81	MPW	BGS	570	INCORP MEX 80-003 REV. 80
17	11/16/81	MPW	BGS	570	INCORP MEX 80-003 REV. 80
16	6/12/81	DWS	BGS	570	INCORP MEX 80-003 REV. 80
15	4/28/81	MPW	BGS	570	INCORP MEX 80-003 REV. 80
14	2/14/81	MPW	BGS	570	INCORP MEX 80-003 REV. 80
13	10/2/80	DWS	BGS	570	INCORP MEX 80-003 REV. 80
12	4/14/80	DWS	BGS	570	INCORP MEX 80-003 REV. 80
11	10/2/80	DWS	BGS	570	INCORP MEX 80-003 REV. 80
10	2/26/80	MPW	BGS	570	INCORP MEX 80-003 REV. 80
9	1/23/80	MPW	BGS	570	INCORP MEX 80-003 REV. 80
8	4/27/79	MPW	BGS	570	INCORP MEX 80-003 REV. 80
7	5/12/79	MPW	BGS	570	INCORP MEX 80-003 REV. 80
6	4/24/79	MPW	BGS	570	INCORP MEX 80-003 REV. 80
5	3/13/79	MPW	BGS	570	INCORP MEX 80-003 REV. 80
4	12/23/78	MPW	BGS	570	INCORP MEX 80-003 REV. 80
3	10/17/78	MPW	BGS	570	INCORP MEX 80-003 REV. 80
2	10/17/78	MPW	BGS	570	INCORP MEX 80-003 REV. 80
1	6/24/78	DWS	BGS	570	INCORP MEX 80-003 REV. 80
0	3/4/78	DWS	BGS	570	INCORP MEX 80-003 REV. 80

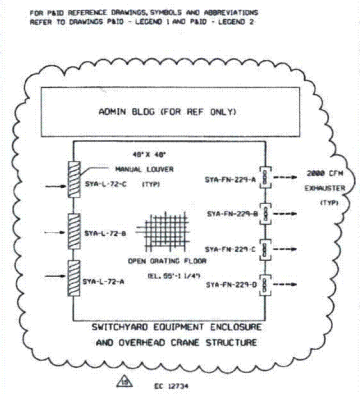
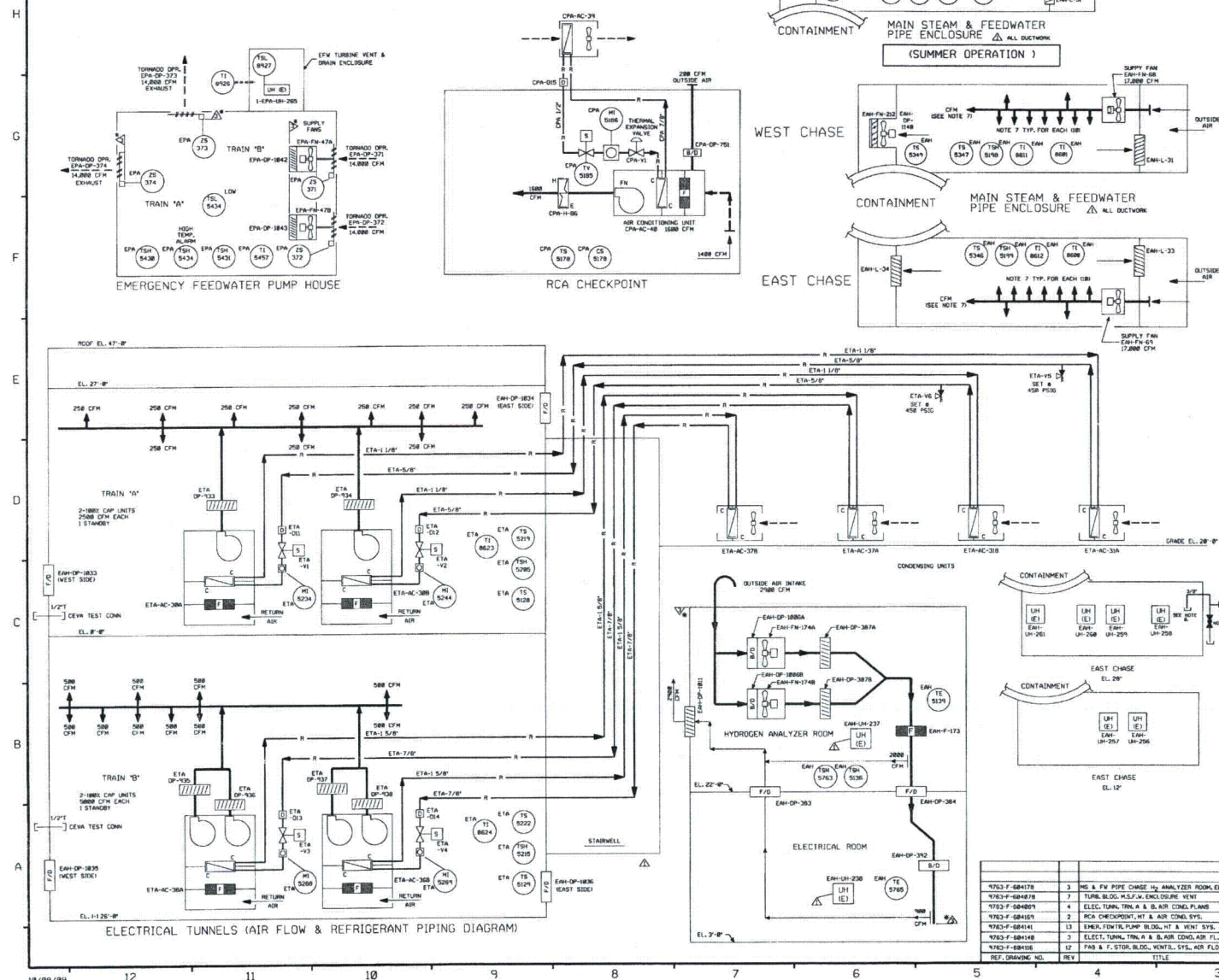
**NEXTERA ENERGY**





MISCELLANEOUS AIR HANDLING  
CONTAINMENT & PURGES  
DETAIL (COP, CAP)

PID- 1-MAH-B20504








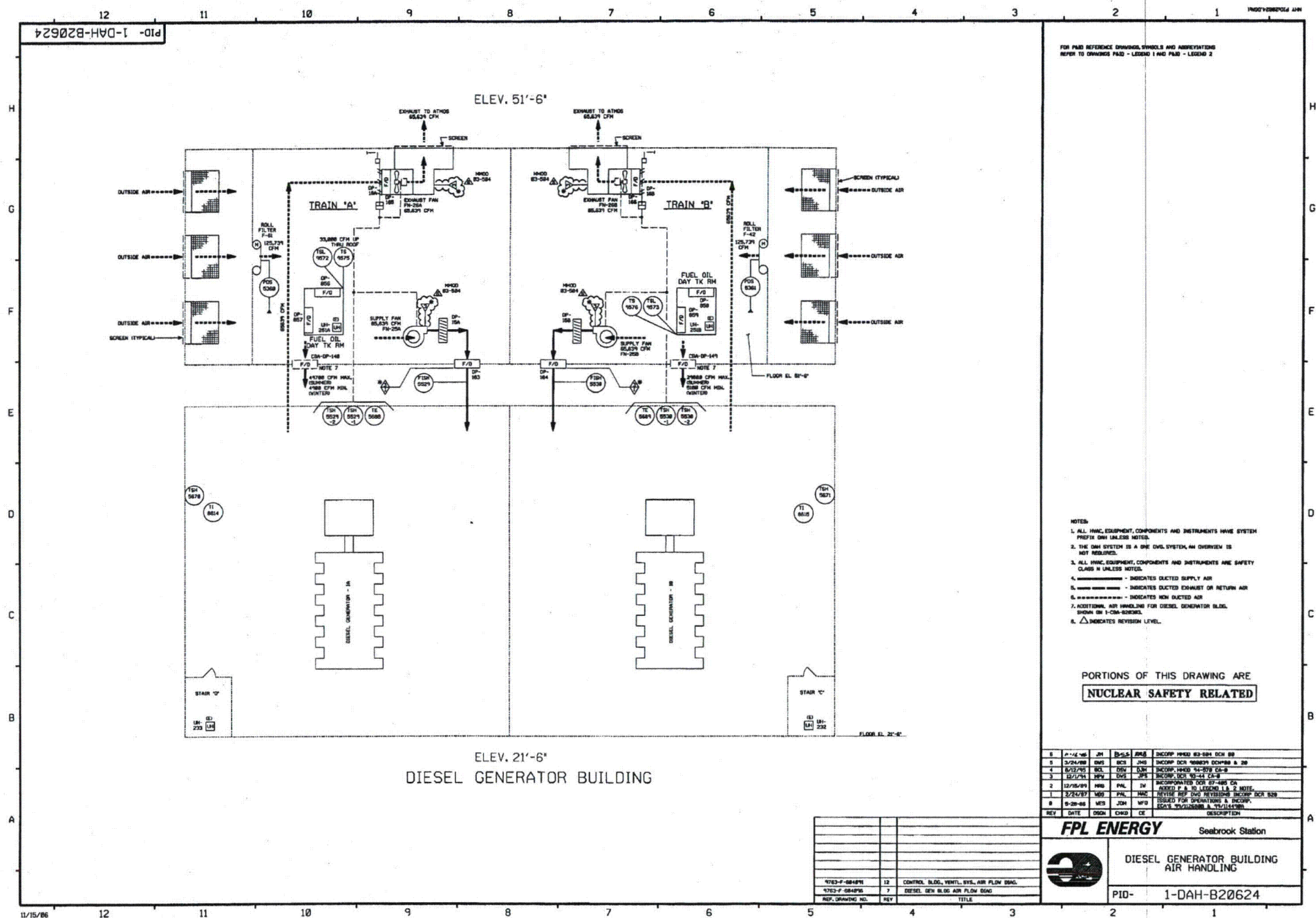
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 2844Q, 2844R THRU 2858Z
  2. 2058A THRU 2058H.
  3. SYSTEM PHU 1303.
    - ETA - ELECTRICAL TUNNEL AIR HANDLING
    - EAF - CONTAINMENT EXHAUST AIR HANDLING
    - CWA - CHECK POINT AIR
    - EAF - EMERGENCY FREEDOMER PUMP BUILDING AIR HANDLING.
  4. FOR SYMBOL LEGENDS, SEE NOTE 3 ON DOW MIN 2844A.
  5.  ALL OUTWORK, UNLESS NOTED.
  6. DELETED
  7.  INDICATES REVISION LEVEL.
  8. THE SYSTEM AIR FLOW RATE HAS BEEN REDUCED TO 17,000 CFM. THE REVISION HAS BEEN SET TO THE FULL OPEN POSITION WITH THE SPLITTER DAMPER SET TO THAT 2750 CFM EXITS THE REEDSTERS NEAREST THE FANS.
  9. \*SLIP, PUMP, SPEC-220A, ISO-130 NUSKORH MOTORS CHARGING OF

PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED
------------------------

15	1/11/74	BCS	SPM	INVS	INCPD 102734Z
14	1/10/74	HRB	CPJ	DEA	INCPD HSE 80-024 REU DB
13	1/10/74	JM	HRB	INCPD	INCPD 80-025 REU DB
12	1/10/74	HP	HPB	INCPD	INCPD HSE 80-024 REU DB
11	1/11/74	HRB	HRB	INCPD	INCPD HSE 80-024 REU DB
10	1/10/74	HRB	HRB	INCPD	INCPD HSE 80-024 REU DB
9	1/2/74	DLB	BCS	INCPD	INCPD 80-024 REU DB
8	1/13/74	BCS	DLB	INCPD	INCPD 80-024 REU DB
7	1/14/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
6	1/15/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
5	1/16/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
4	1/17/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
3	1/18/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
2	1/19/74	HRB	DLB	INCPD	INCPD 80-024 REU DB
1	1/20/74	HRB	DLB	INCPD	INCPD 80-024 REU DB

REV	DATE	ISSN	CHRG	CE	DESCRIPTION
					
		MISCELLANEOUS AIR HANDLING DETAILS			
SEABROOK STATION		PID- 1-MAH-B20503			



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

NOTES:

1. ALL HVAC EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX DM UNLESS NOTED.

2. THE DM SYSTEM IS A ONE CWL SYSTEM, AN OVERVIEW IS NOT REQUIRED.

3. ALL HVAC EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.

4. ----- - INDICATES DUCTED SUPPLY AIR

5. ----- - INDICATES DUCTED EXHAUST OR RETURN AIR

6. ----- - INDICATES NON DUCTED AIR

7. ADDITIONAL AIR HANDLING FOR DIESEL GENERATOR BLOWS, SHOWED IN 1-DM-ROOMS

8. \* INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

6	1-14-66	JN	2-5-5	206	INCOMP 1460 83-84 OCN 88
5	3-14-68	WDS	BGS	JMS	INCOMP DCR 90839 CA-88 & 20
4	8/15/69	SCL	DIV	DJM	INCOMP 1461 84-85 CA-8
3	12/1/74	MPW	DIV	JPS	INCOMP DCR 101-44 CA-8
2	12/15/69	WDS	PAL	JV	INCORPORATED OR 87-88 CA ADDED P. 10 LEGEND I.A. 2 NOTE.
1	3/24/67	WDS	PAL	NAC	REVISE REF DOW REVISIONS INCOMP DCR 820
6	8-20-66	WES	JON	WFO	FOR OPERATIONS INCOMP, DCR 824'S 17/11/69 & 17/11/69
REV	DATE	ORIGIN	CHG'D	BY	DESCRIPTION

**FPL ENERGY**

### Seabrook Station

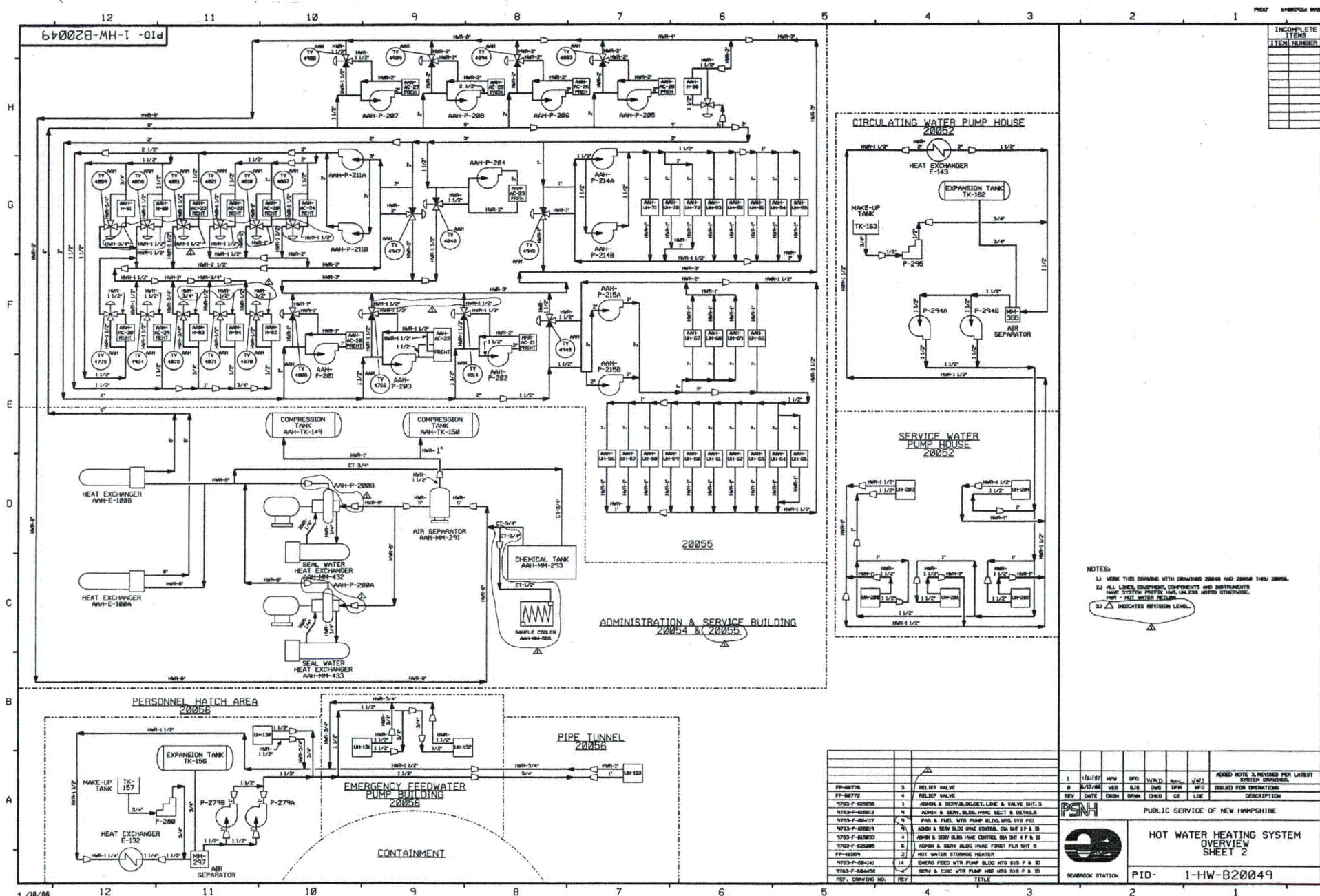


DIESEL GENERATOR BUILDING  
AIR HANDLING

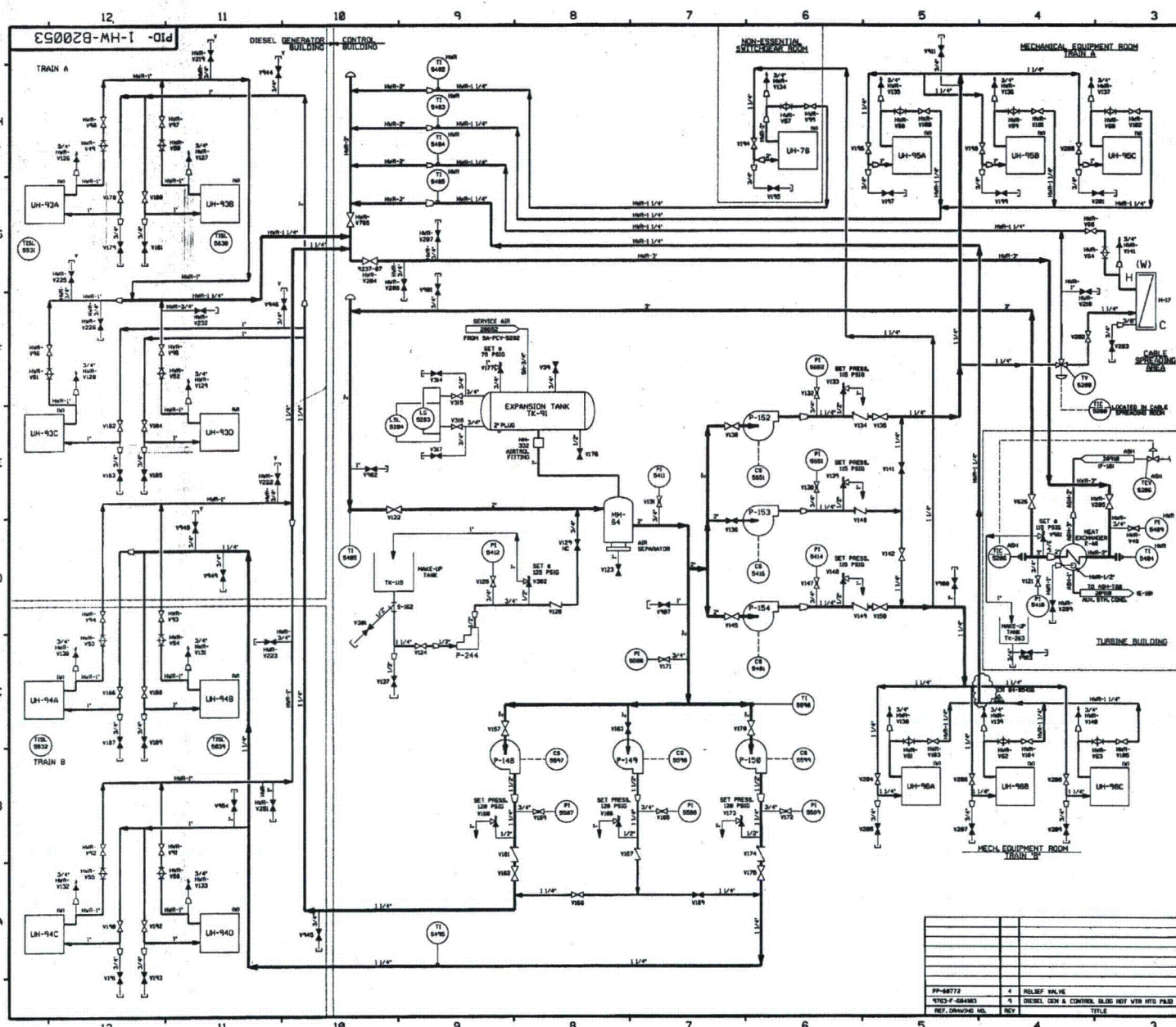
PID-	1-DAH-B20624
------	--------------





[illegible][illegible]





FOR P&ID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 28046, 28048 AND 28050.
  - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM IDENTIFICATION AND UNLESS NOTED OTHERWISE.
  - 3) ALL EQUIPMENT IN THIS SYSTEM IS SAFETY CLASS UNLESS NOTED OTHERWISE.
  - 4)  $\nabla$  INDICATES REVERSE LEVEL.

NO.	DATE	BY	CHKD	APPD	DESCRIPTION
1	12-22-84	SCS	JMH	FFS	INSTRUMENTS, CO. 80-8400 REV. 0
2	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
3	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
4	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
5	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
6	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
7	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
8	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
9	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
10	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
11	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
12	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
13	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
14	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
15	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
16	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
17	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
18	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
19	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0
20	12-28-84	SCS	DAV	SCS	INSTRUMENTS, CO. 80-8400 REV. 0

**FPL ENERGY**

Seabrook Station

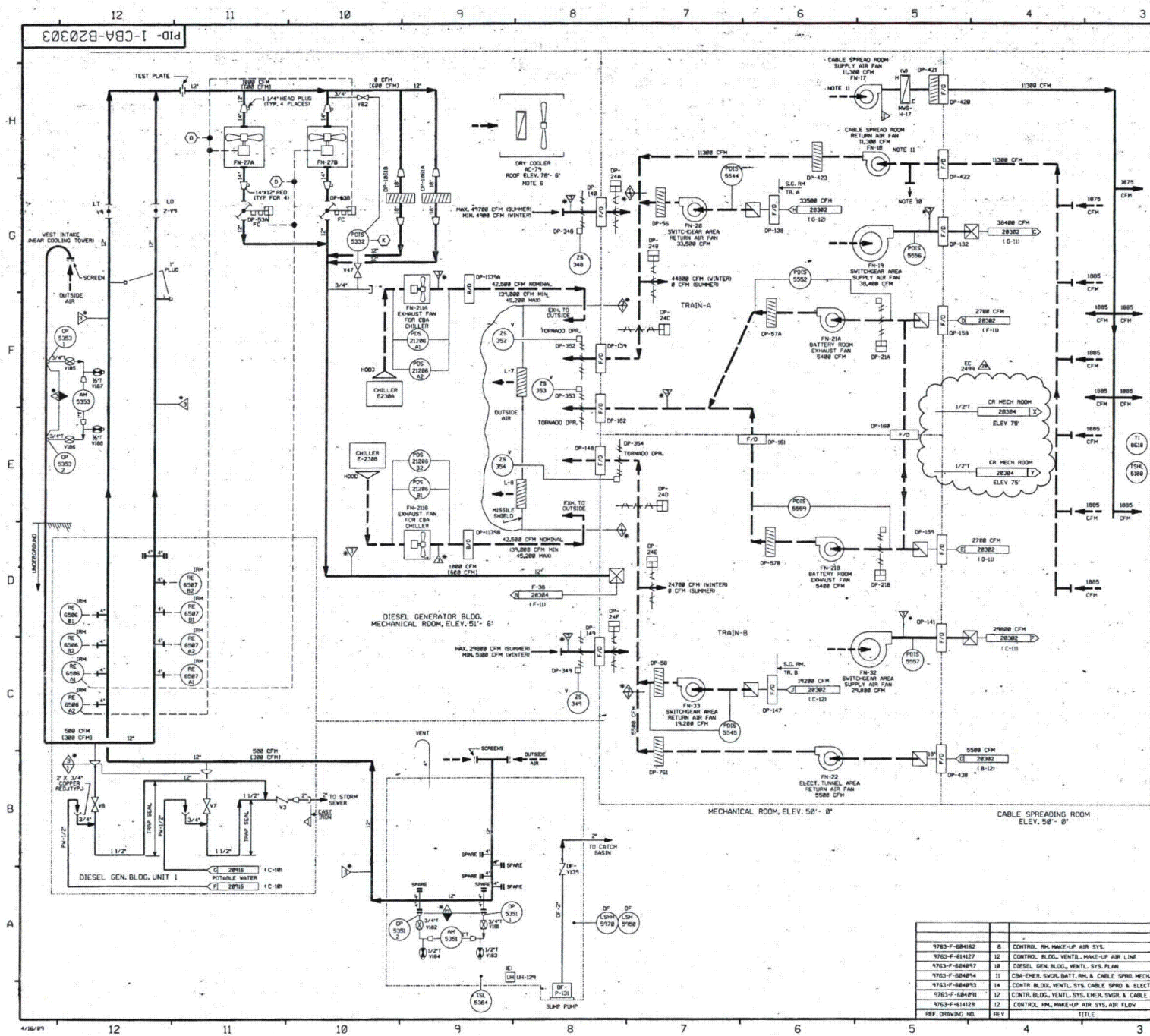
**HOT WATER HEATING SYSTEM**  
**DIESEL GENERATOR & CONTROL BUILDING**  
**DETAIL**

PID- 1-HW-B20053

07/21/84

12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H



FOR PAID REFERENCE DRAWINGS SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH 20300, 20302 & 20304 (REV) 20300.
  2. ALL HVAC EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX CBA UNLESS NOTED.
  3. FOR SYMBOL LEGEND SEE DRAWING 20302.
  4. INSTRUMENT REFERENCES:
- (A) INTERLOCK WITH 2-CBA-FN-27A & 2-CBA-OP-538
  - (B) INTERLOCK WITH 2-CBA-FN-27B & 2-CBA-OP-53A
  - (C) INTERLOCK WITH FILTER RECIRC SIGNAL LOGIC DIA 003231
  - (D) TO DP-28 ON DNG 20304
5. DELETED
  6. REFRIGERANT PIPING SHOWN ON DNG 20300.
  7. DELETED
  8. DELETED
  9. INDICATES REVISION LEVEL.
  10. OPENING TO PROVIDE OVER-PRESSURE PROTECTION FOR CABLE SPREADING ROOM WITH FAN OFF. OPENING IS NORMALLY COVERED WITH FAN ON.
  11. FAN IN PERMANENT STAND-BY STATUS.

# PORTIONS OF THIS DRAWING ARE NUCLEAR SAFETY RELATED

20	9/20/81	BCS	JH	QCD	INCOMP. DCR 3499
19	12/22/80	BCS	JH	SPF	INCOMP. DCR 85-1744 REV. 80
18	4/27/80	JH	BCS	CLM	INCOMP. DCR 85-894 DCH 80 & 81
17	12/86/82	JH	BCS	RCP	INCOMP. DCR 97-38 DCH 80 & 81
16	5/22/82	BCS	MPW	RCP	PARTIAL INCOMP. DCR 97-38 DCH 80
15	2/24/80	DWS	BCS	JHB	INCOMP. DCR 94-897A DCH 20 & 43
14	2/23/80	BCS	DWS	MPW	PARTIAL INCOMP. DCR 94-897A DCH 20 & 43
13	2/11/80	DWS	BCS	MPW	PARTIAL INCOMP. DCR 94-897A DCH 20 & 43
12	1/5/79	BCS	MPW	RHM	INCOMP. HMOO 96-533 CA-8
11	1/8/78	BCS	DWS	CC	INCOMP. HMOO 96-533 CA-8
10	5/28/70	MPW	DWS	RCP	INCOMP. HMOO 97-568 DCH 80
9	6/12/70	BCL	DWS	CLM	INCOMP. HMOO 94-578 CA-8
8	8/22/70	HMB	BCL	SNW	INCOMP. DCR 84-111 CA-8
7	4/27/70	HMB	BCL	JEV	INCOMP. HMOO 96-533 CA-8
6	3/23/70	CLM	JH	HAC	INCOMP. DCR 84-111 CA-8
5	2/8/70	HMB	JH	CLM	INCOMP. DCR 84-111 CA-8
4	9/29/69	HMB	MPW	JWS	INCOMP. DCR 84-111 CA-8
3	4/5/69	CLM	JH	HAC	INCOMP. DCR 84-111 CA-8

2	2/24/87	JOM	PHL	HAC	ADDED INSTRUMENTATION & NOTE 4. CORRECTED LINE TO INSTRUMENT ISO. ADDED PAID LEGEND NOTE 10. ADDED CONTINGENCY DNG 94-897A. ADDED CONTINGENCY DNG 94-897A. ADDED CONTINGENCY DNG 94-897A.
1	5/26/84	BCL	DNC	DRK	ADDED POTABLE WATER CONT. & FLOW NOTES FOR 4-CBA & 8
0	3/4/86	DWS	WLS	WFO	ISSUED FOR OPERATIONS
REV	DATE	DESIGN	CHKD	DE	DESCRIPTION

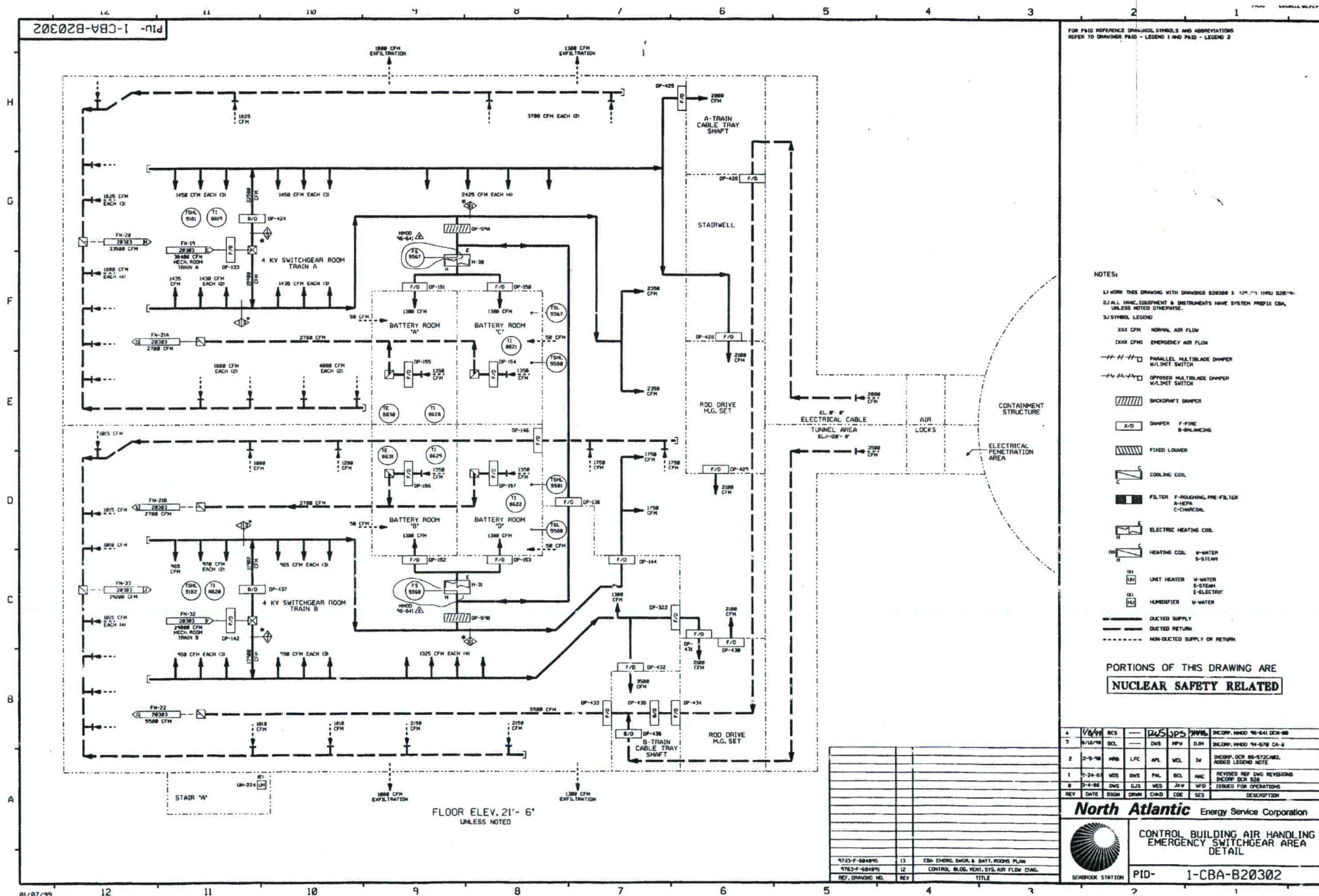
**FPL ENERGY** Seabrook Station

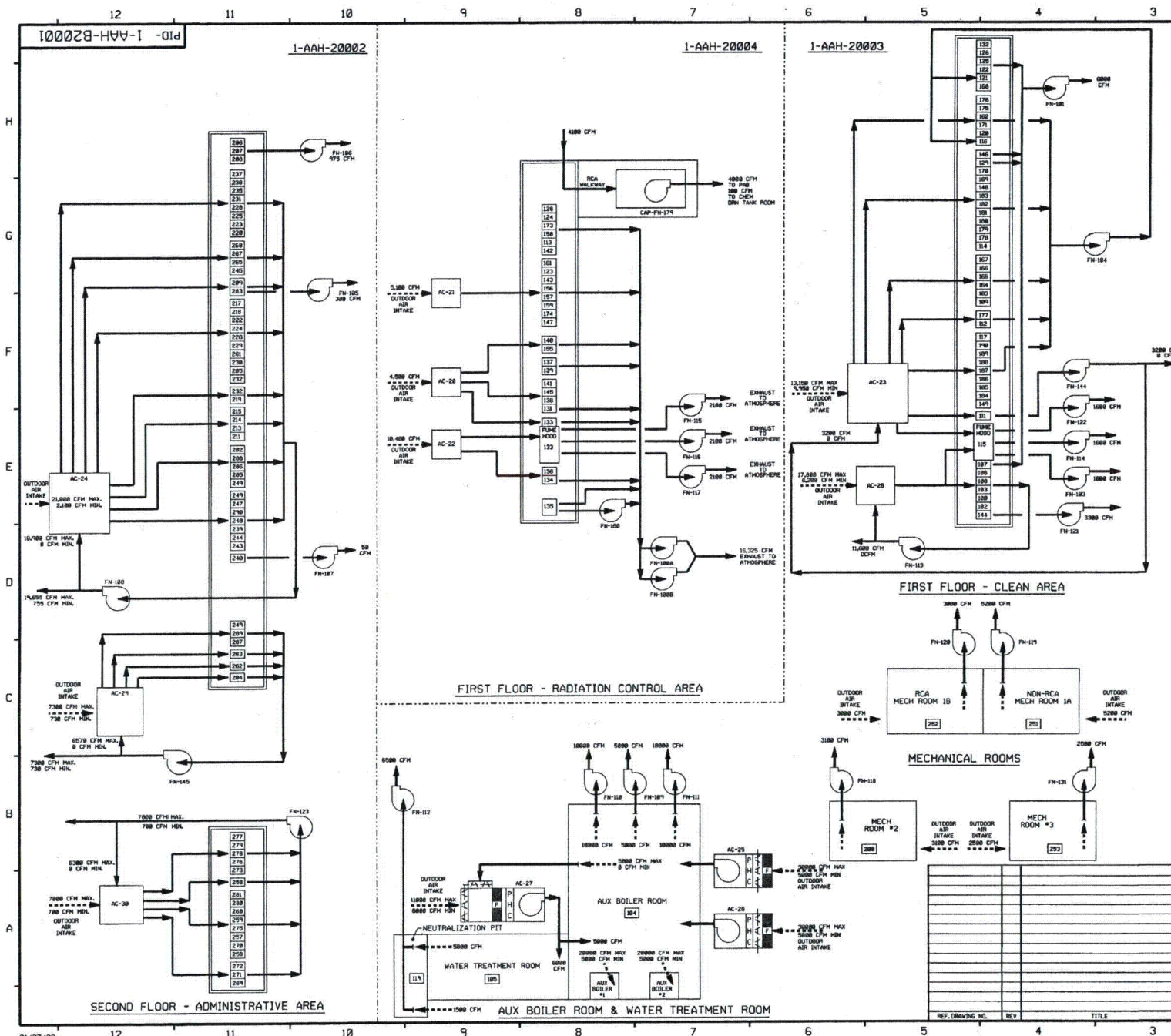
CONTROL BUILDING AIR HANDLING DETAIL

PID-1-CBA-B20303

REV	DATE	DESIGN	CHKD	DE	DESCRIPTION
7	7/23-F-684182	8	CONTROL RM MAKE-UP AIR SYS.		
6	7/23-F-684127	12	CONTROL BLDG VENTIL. MAKE-UP AIR LINE		
5	7/23-F-684497	18	DIESEL GEN. BLDG. VENTIL. SYS. PLAN		
4	7/23-F-684494	11	CBA-EMER. SWGR. BATT. RM. & CABLE SPRL. MECH. EQUIP.		
3	7/23-F-684493	14	CONTR. BLDG. VENTIL. SYS. CABLE SPRL. & ELECT. TUNEL		
2	7/23-F-684490	12	CONTR. BLDG. VENTIL. SYS. EMER. SWGR. & CABLE		
1	7/23-F-684126	12	CONTROL RM. MAKE-UP AIR SYS. AIR FLOW		
REV	DATE	DESIGN	CHKD	DE	DESCRIPTION







FOR PID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PID - LEGEND 1 AND PID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20002, 20003, AND 20004.
  2. ALL EQUIPMENT AND INSTRUMENTATION HAS SYSTEM PREFIX AHH, EXCEPT AS NOTED.
  3. --- INDICATES DUCTED FLOW, - - - INDICATES NON-DUCTED FLOW.
  4. MECHANICAL ROOMS, AUX. BOILER ROOM, AND WATER TREATMENT ROOM ARE DETAILED ON DRAWING 20003.
  5. [X]X DENOTES ROOM NUMBER.
  6. Δ INDICATES REVISION LEVEL.

REV	DATE	BY	CHKD	DES	DESCRIPTION
4	1/7/82	MPV	JM	JW	REVISED EXISTING CHG PER 1980S REVISION 30
3	7/25/81	MRB	JH	JW	INTEGRATED 3V/2000 & REVISED 19-SILICA 30
2	1/21/87	MDG	MRD	YMS	SELECTED TO FORM TWO REVISIONS TO NOTES 1 AND 4, REVISED PER LATEST SYSTEM DRAWINGS
1	6/7/86	WAL	JOH	WFO	INTEGRATED 3V/2000 & REVISED 19-SILICA 30
0	2/15/84	DHF	RSL	WFO	AS-BUILT
REV	DATE	BY	CHKD	DES	DESCRIPTION

**FPL ENERGY**

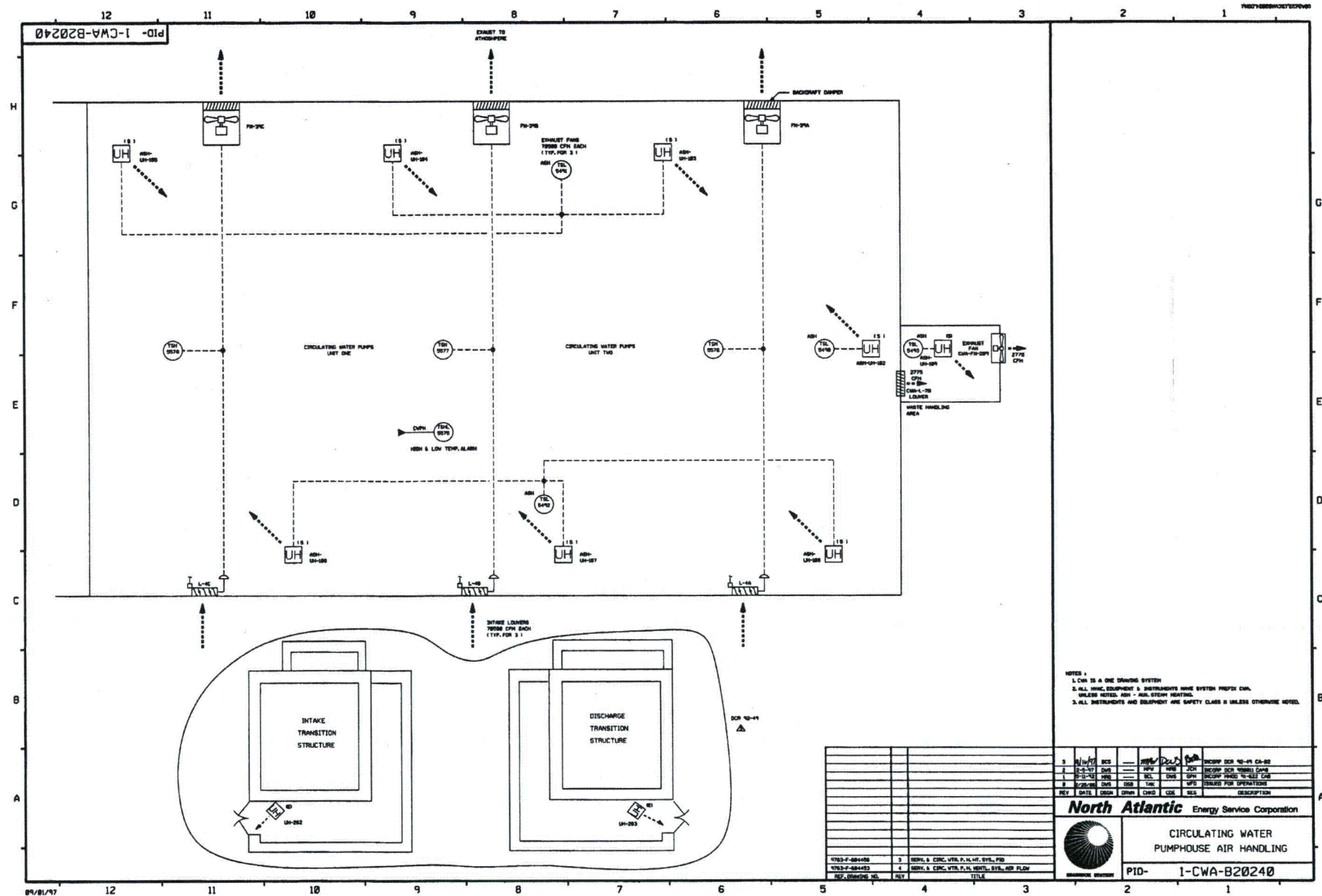
Seabrook Station



ADMINISTRATION & SERVICE BLDG  
HVAC AIR FLOW  
OVERVIEW

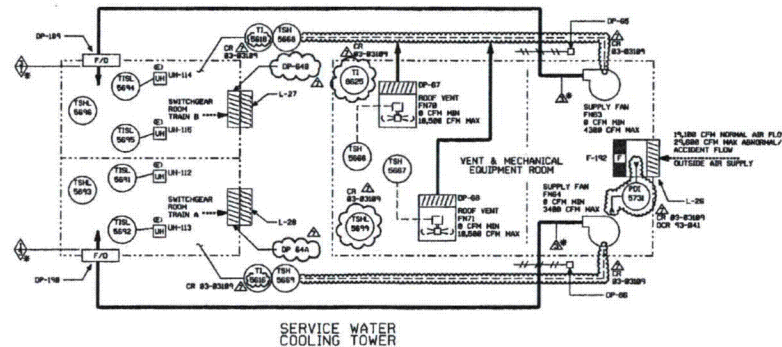
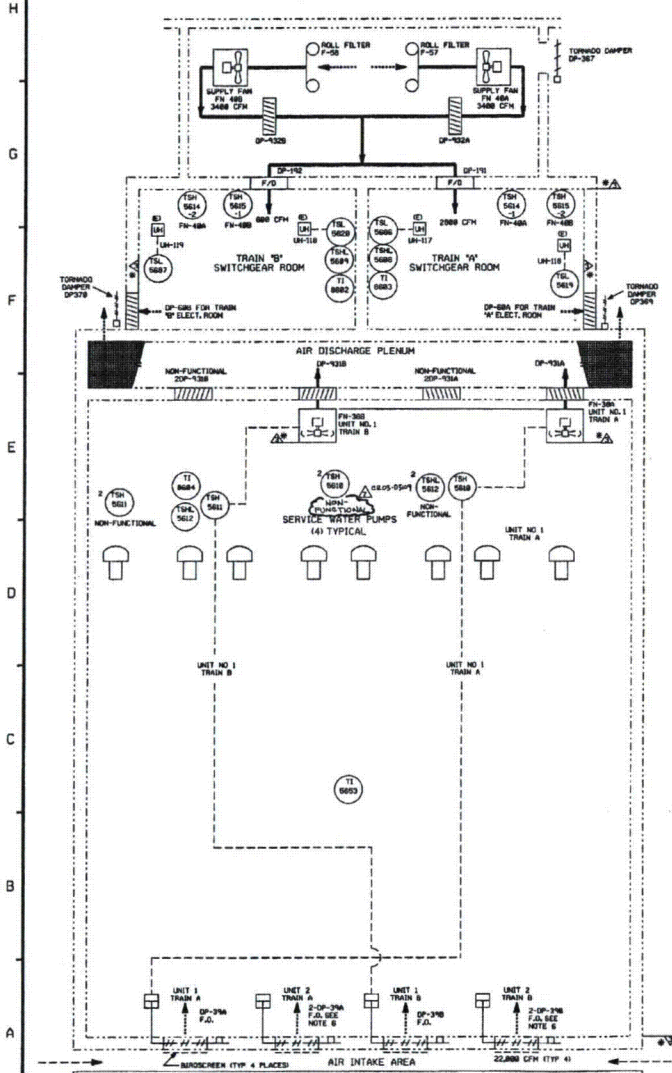
PID- 1-AAH-B20001





PID-1-SWA-B20372

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX UNLESS OTHERWISE NOTED.
  2. THE SWA SYSTEM IS A ONE (1) DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
  3. ALL DUCTWORK, UNLESS NOTED.
  4. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS UNLESS OTHERWISE NOTED.
  5. Δ INDICATES REVISION LEVEL.
  6. THIS UNIT 2 EQUIPMENT IS NEEDED FOR UNIT 1 OPERATION.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

REV	DATE	BY	CHKD	CE	DESCRIPTION
7	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
6	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
5	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
4	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
3	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
2	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
1	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01
0	5/14/75	JM	BCL	WVS	INCOMP. CR. 83-830P1 REV. 01

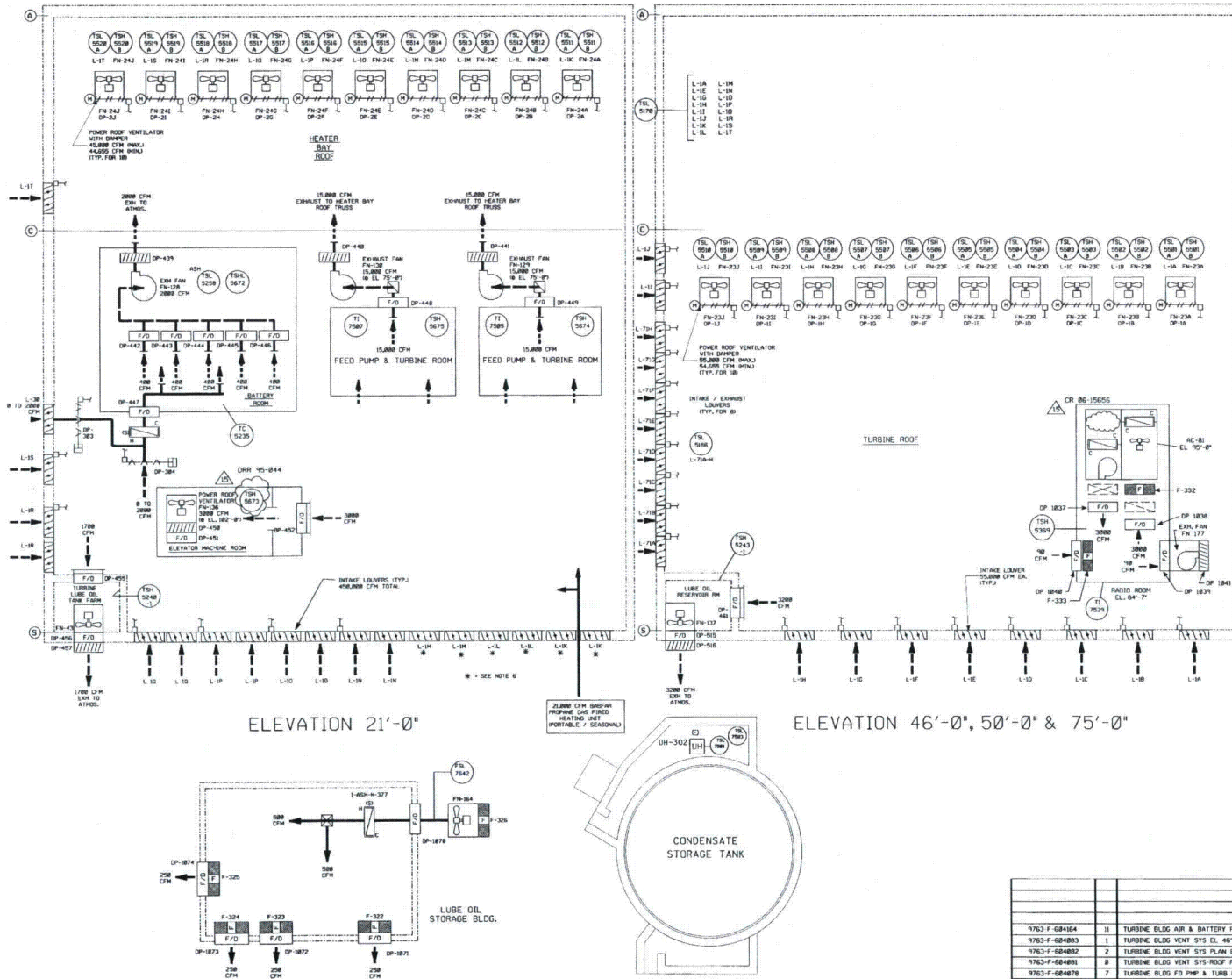


**FPL ENERGY** Seabrook Station  
AIR HANDLING SYSTEM FOR  
SERVICE WATER PUMPHOUSE  
AND  
SERVICE WATER COOLING TOWER  
PID- 1-SWA-B20372



070208-HV1-1-10

PROG/REV/DATE/APP



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
  2. WORK THIS DWG WITH DWS, 2017.1 AND 2017.2.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNLESS NOTED.
  4. LEGEND:
    - DUCTED SUPPLY
    - DUCTED RETURN
    - NON DUCTED SUPPLY OR RETURN
    - SUCTION PIPING
    - LIQUID PIPING
  5. Δ INDICATES REVISION LEVEL.
  6. INTAKE LOUVERS L-10, L-11 AND L-12 ARE BLANKED OFF AND NON-FUNCTIONAL.

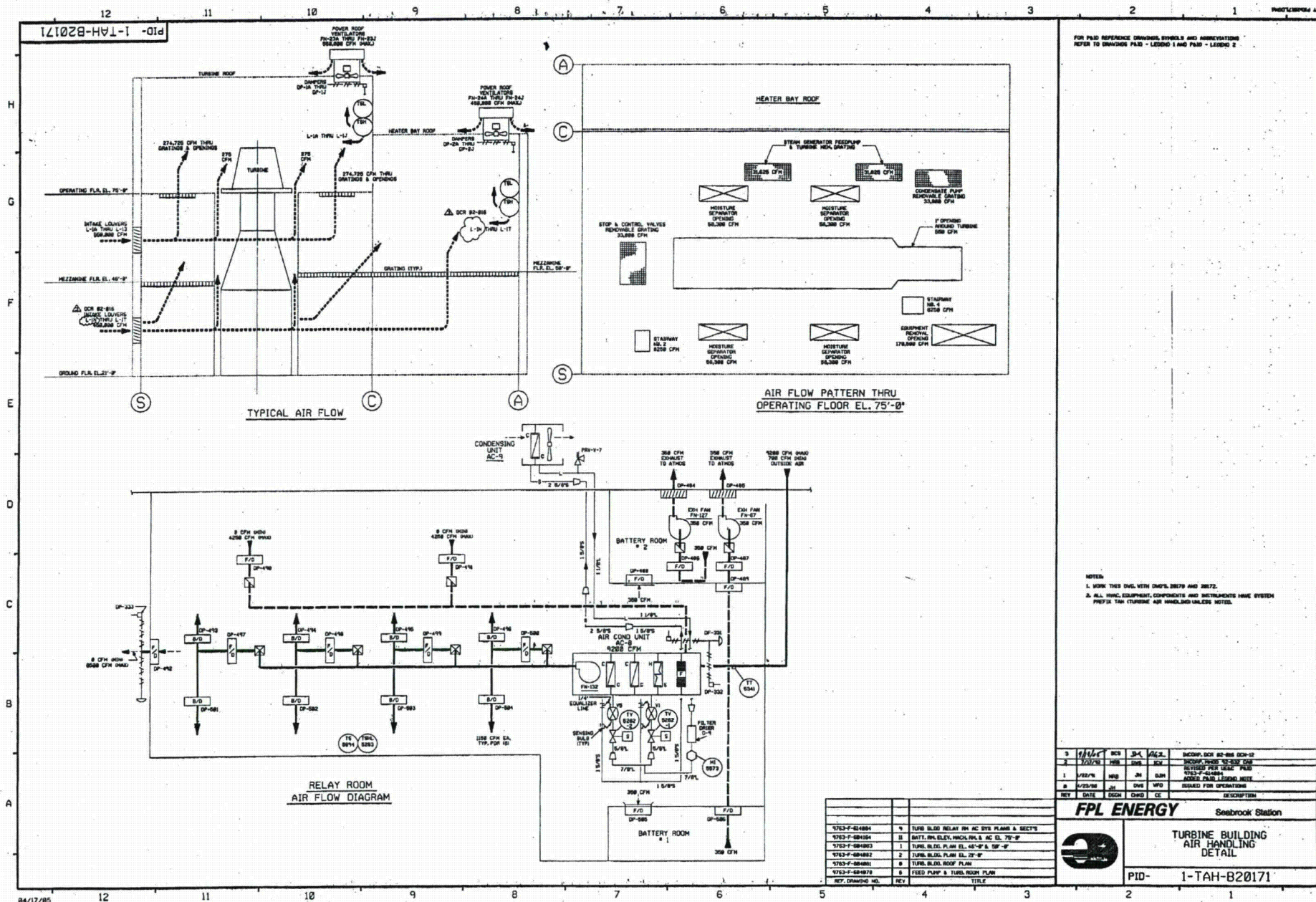
15	3-15-18	BKS	JM	RRB	INCORP OIR 86-15056 REV. 8 & OIR 95-844 REV. 8
14	4/18/98	BKS	JM	RRB	INCORP OIR 82-10 DCM-12
13	10/24/98	BKS	JM	RRB	INCORP MSE 84-155 REV. 88
12	10/5/94	BKS	JM	RRB	INCORP ECA 86/86235J & CR 89-8368 REV. 88
11	2/13/93	BKS	JM	TWG	INCORP OIR 86-891 DCM-83
10	2/13/93	BKS	JM	TWG	INCORP MSE 82-889 REV. 88
9	7/28/91	BKS	JM	RRB	INCORP MSE 86-8842 DCM. 88
8	6/15/88	BKS	JM	JCH	INCORP OIR 78-841 DCM-88
7	12/6/77	BKS	JM	JCH	PARTIAL INCORP OIR 78-841 DCM-88
6	8/23/76	BKS	JM	RRB	INCORP OIR 74-827 DCM
5	2/23/76	BKS	JM	JCH	INCORP MSE 72-1532 CAB
4	10/12/76	BKS	JM	RRB	INCORP OIR 87-138 CAB
3	1/22/74	BKS	JM	RRB	REV. NOTE 3 PER ANY ENG. ELLISON STD 37188 SECT. 3.8
2	4/5/70	BKS	JM	RRB	INCORP OIR 66-518 CA
1	2/24/70	BKS	JM	RRB	DELETED VALUE TAG PREFIX
1	2/24/70	BKS	JM	RRB	INCORPORATED OIR 66-552 CAB2
1	2/24/70	BKS	JM	RRB	CORRECTED CHARTING ERROR ADDED NOTE 5 & 6, DRAWING NOTE.
8	4/23/68	BKS	JM	RRB	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHNG	CE	DESCRIPTION

**FPL ENERGY** Seabrook Station

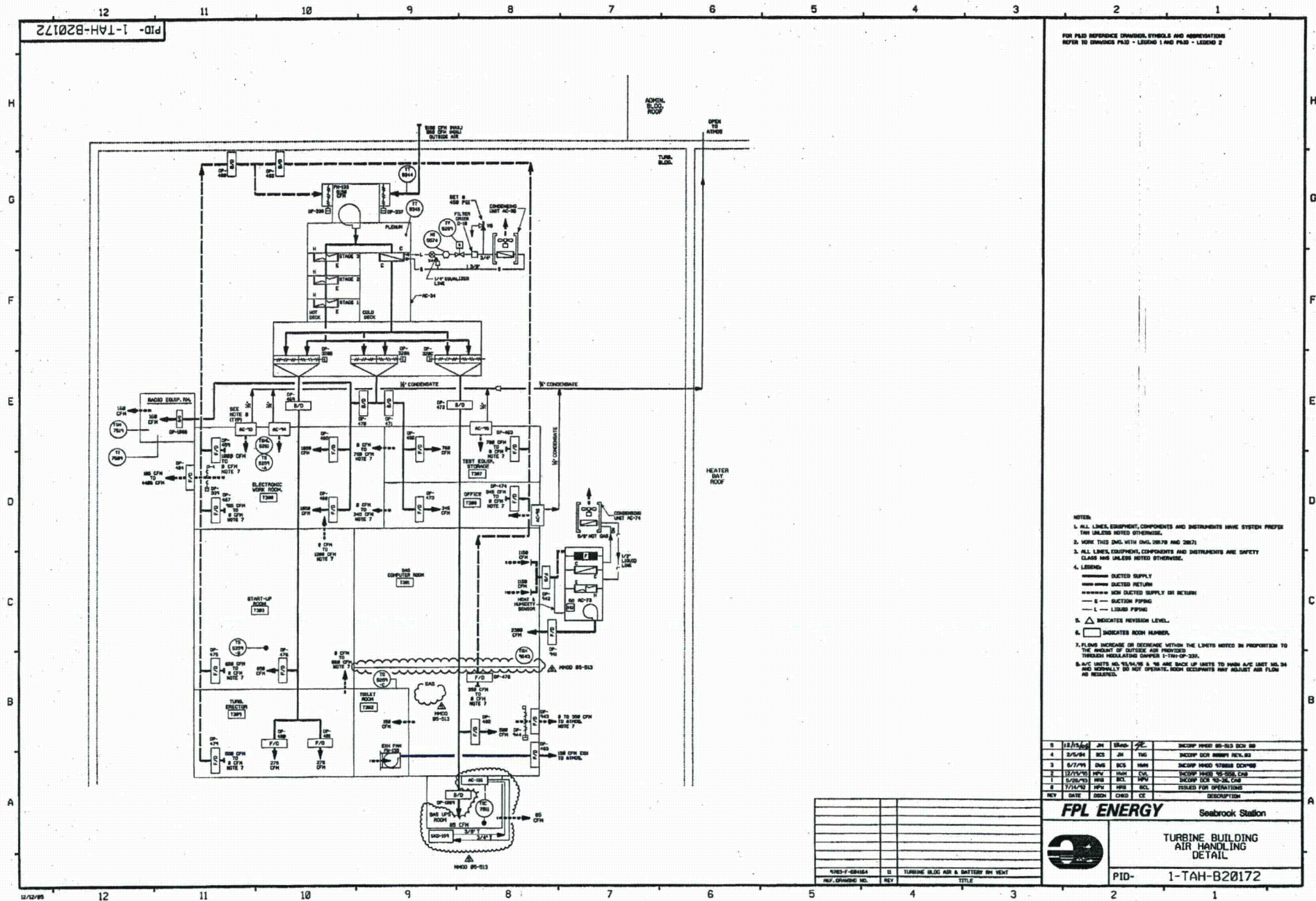
**TURBINE BUILDING AIR HANDLING DETAIL**

PID- 1-TAH-B20170

NO.	DESCRIPTION	REV	TITLE
11	TURBINE BLDG AIR & BATTERY RM VENT		
1	TURBINE BLDG VENT SYS EL. 46'-0" & 50'-0"		
2	TURBINE BLDG VENT SYS PLAN EL. 21'-0"		
8	TURBINE BLDG VENT SYS ROOF PLAN		
7	TURBINE BLDG F/D PMP & TURBINE RM VENT		
REF.	DRAWING NO.		

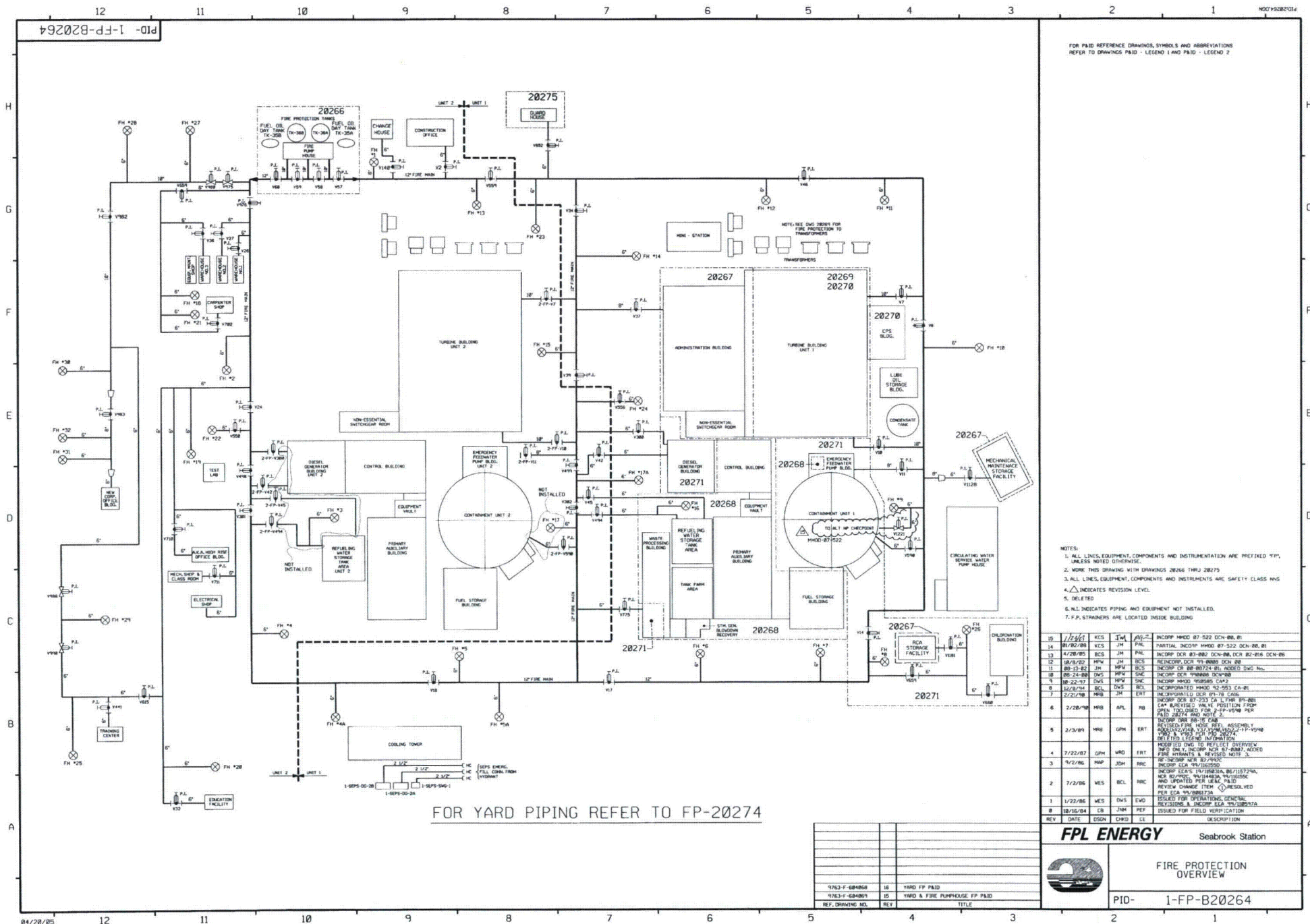


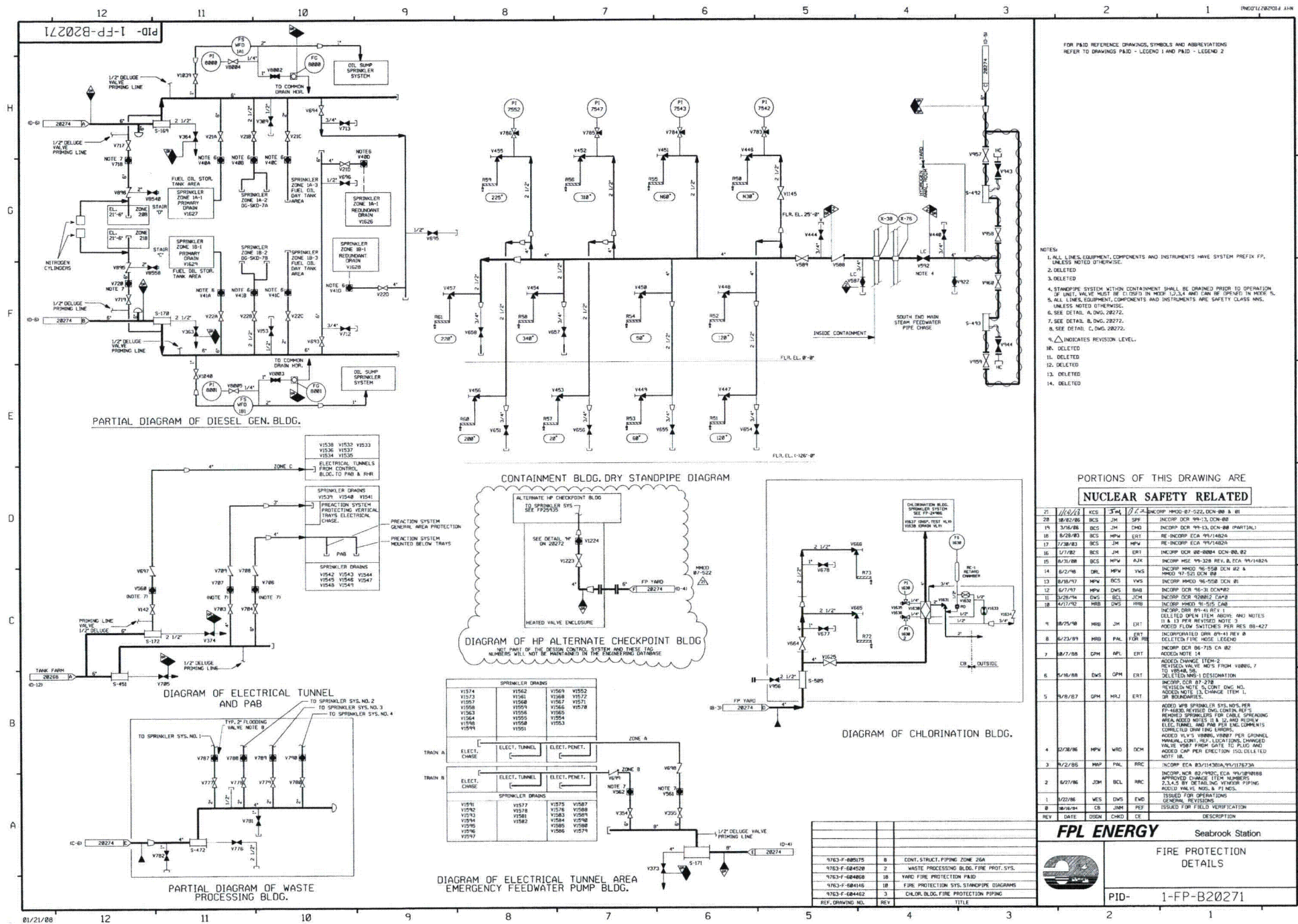




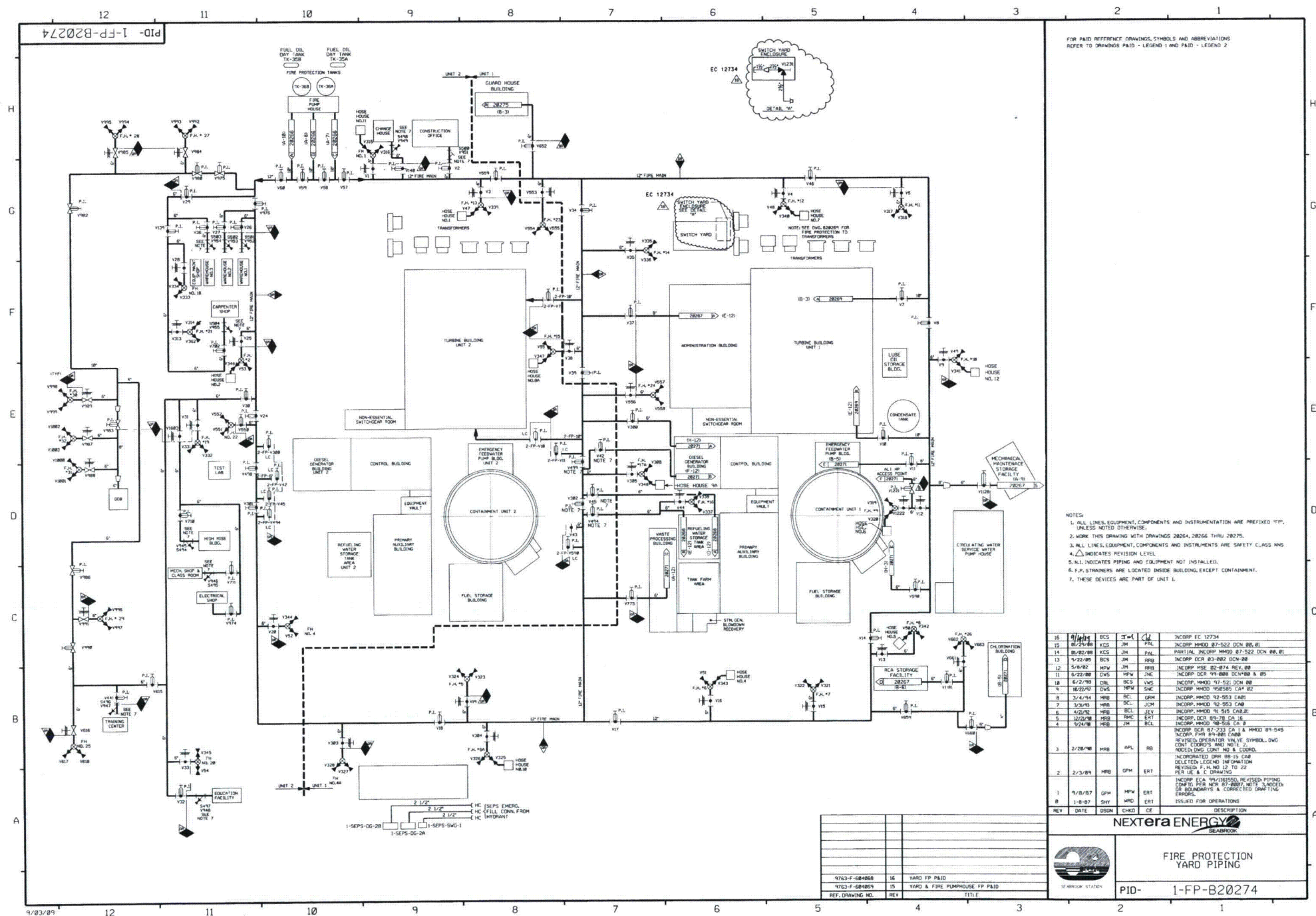












FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
SEEK TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED "FPI", UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 28264, 28266 THRU 28275.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS AND  $\Delta$  INDICATES REVISION LEVEL.
5. N.I. INDICATES PIPING AND EQUIPMENT NOT INSTALLED.
6. F.P. STRAINERS ARE LOCATED INSIDE BUILDING, EXCEPT CONTAINMENT.
7. THESE DEVICES ARE PART OF UNIT 1.

[illegible]

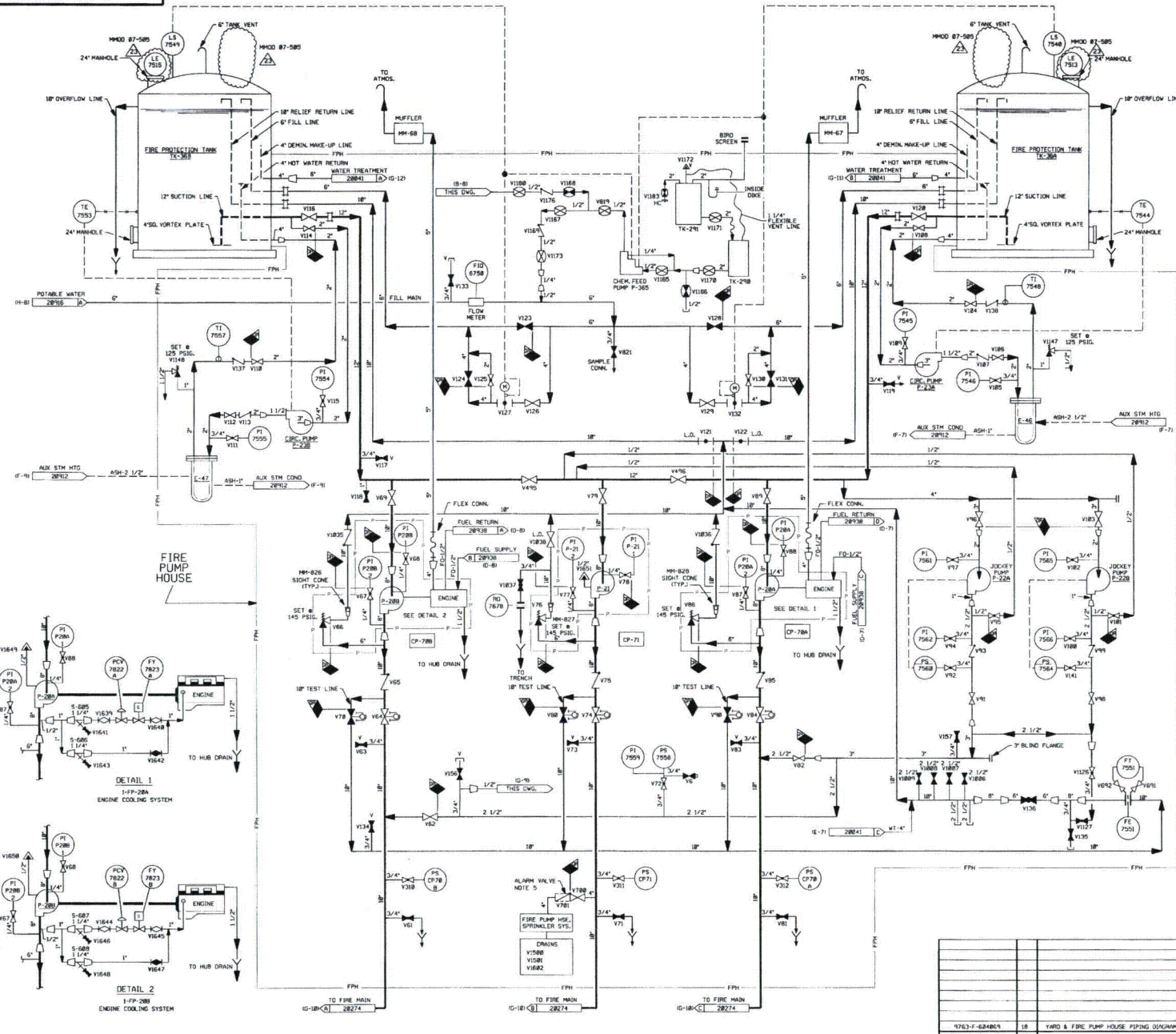
**NEXTERA ENERGY**

FIRE PROTECTION  
YARD PIPING

PID- 1-FP-B20274

12 11 10 9 8 7 6 5 4 3 2 1

9920266-1-FP-B20266



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID-LEGEND 1 AND PAID-LEGEND 2.

NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYS. PREFIX FP, UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 28064 AND 28067 THRU 28272.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NML, UNLESS NOTED OTHERWISE.
4. DELETED.
5. SEE DETAIL 2 DWS 28272.
6.  $\Delta$  INDICATES REVISION LEVEL.
7. DELETED.
8. OR - CALIBRATION ONLY.
9. VENTS & DRAIN TAP OR BOUNDARY ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE.

23	10/16/81	BCL	JM	INCORP. MHO 87-585 DCH-BB
22	12/30/81	BCL	JM	INCORP. CR 82-1372 REV. BB
21	6/11/83	JM	BCL	INCORP. CR 83-80751 REV. BB
20	6/13/82	JM	MPW	INCORP. CR 80-82311-B1
19	10/5/80	JM	BCL	INCORP. CR 81-84266-B1
18	6/25/80	BCL	MPW	INCORP. DCH 80-24 DCH-BB
17	6/25/80	BCL	MPW	INCORP. DCH 80-24 DCH-BB
16	2/22/80	BCL	JM	PARTIAL INCORP. DCH 80-24 DCH-BB
15	10/2/79	BCL	DWS	INCORP. MHO 80-24 DCH-BB
14	10/2/79	MPW	BCL	INCORP. MHO 80-24 DCH-BB
13	10/2/79	BCL	MPW	INCORP. DCH 80-24 DCH-BB
12	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
11	10/2/79	BCL	MPW	INCORP. MHO 80-24 DCH-BB
10	10/2/79	BCL	DWS	INCORP. MHO 80-24 DCH-BB
9	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
8	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
7	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
6	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
5	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
4	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
3	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
2	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB
1	10/2/79	BCL	DWS	INCORP. DCH 80-24 DCH-BB

REV. DATE DES. CHK. CE. DESCRIPTION

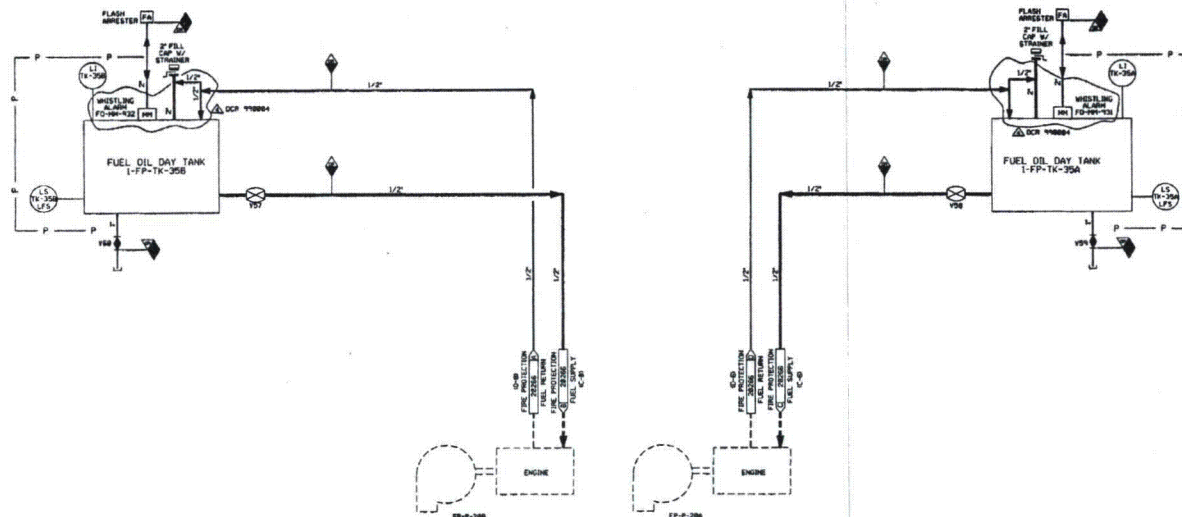
**FPL ENERGY** Seabrook Station

**FIRE PROTECTION FIRE PUMP HOUSE DETAIL**

PID- 1-FP-B20266



860208-03-1-01d



FOR PAID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. THE FO IS A ONE ENG. SYSTEM AND AN OVERVIEW IS NOT REQUIRED.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SIXTH PREFIX FO UNLESS NOTED.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS TWO UNLESS NOTED.

REV	DATE	BY	CHKD	APP	DESCRIPTION
1	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
2	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
3	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
4	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
5	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
6	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
7	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
8	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
9	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
10	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
11	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS
12	04/07/88	JOH	JOH	JOH	ISSUED FOR OPERATIONS

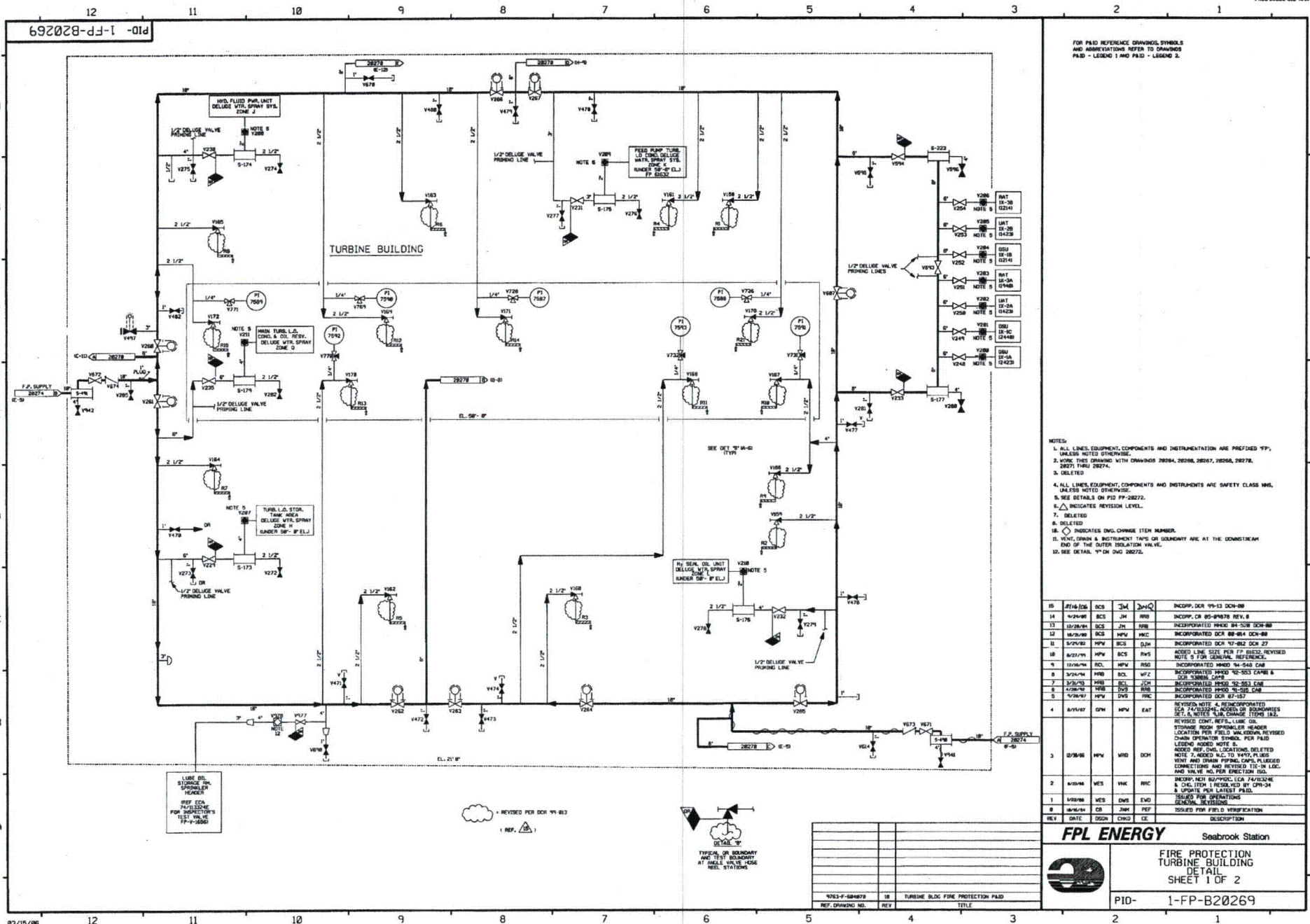
North Atlantic Energy Service Corporation



FUEL OIL SYSTEM

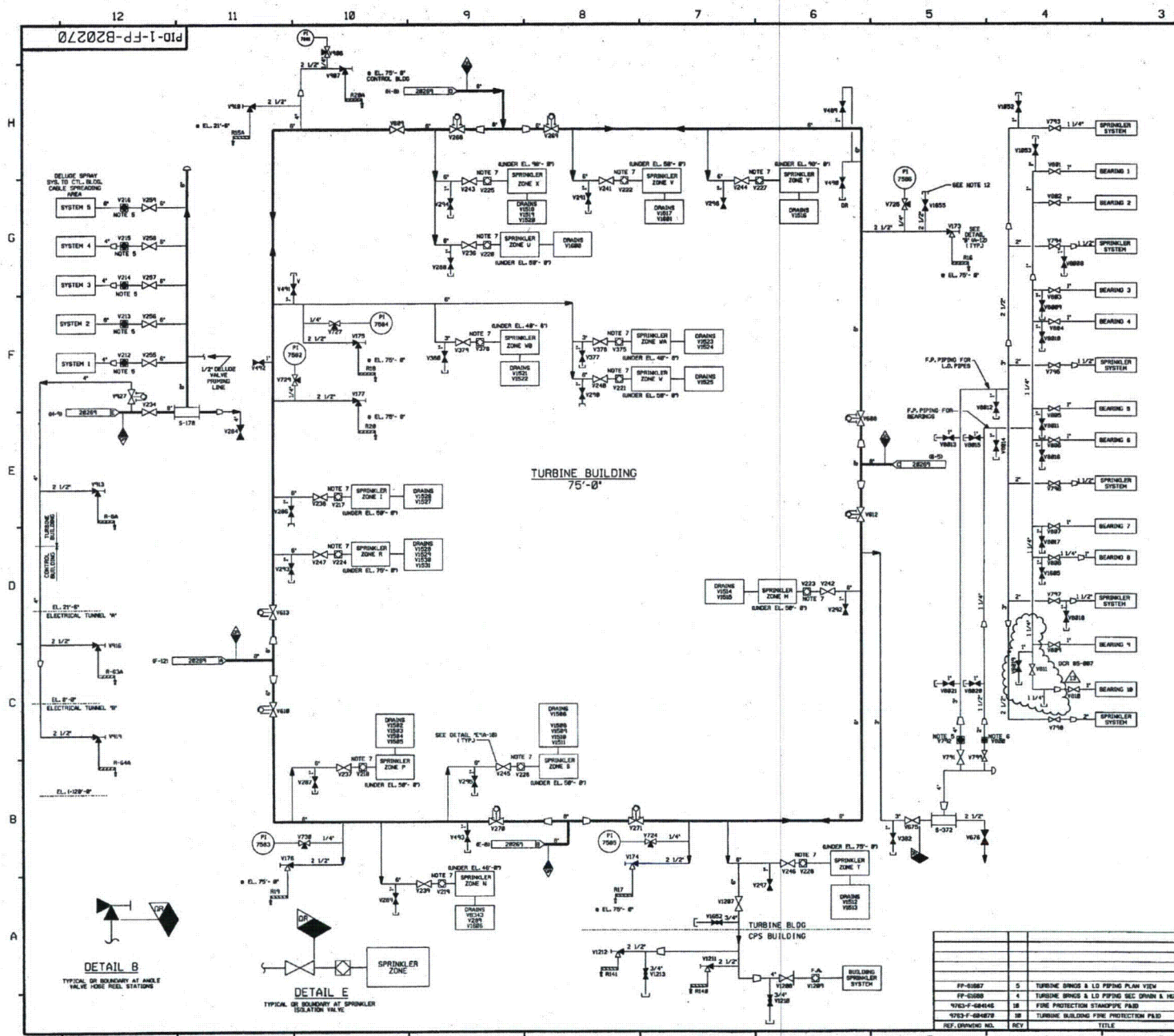
PID- 1-FO-820938

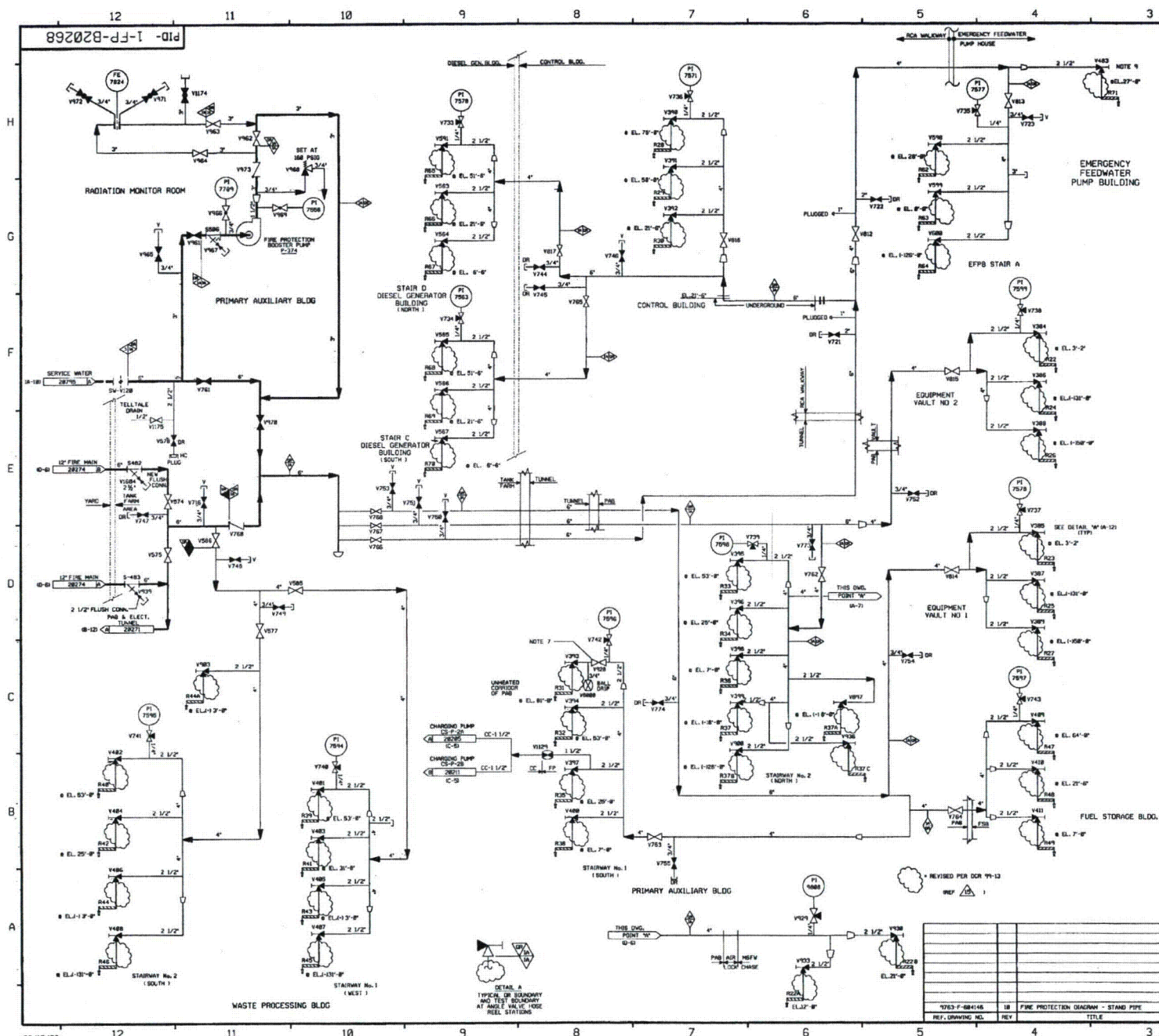
04/07/88





PID-1-FP-B20270





**FOR PAID REFERENCE SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2**

**NOTES:**

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PROVIDED "P", UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 2020A, 2020B, 2020C & 2020D 1700 2027S.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS 100. (ALL ARE NOTED OTHERWISE).
4. Δ INDICATES REVISION LEVEL.
5. DELETED
6. DELETED
7. VALVE 436 IS TO BE NORMALLY CLOSED DURING PERIODS OF FREEZING TEMP. HOSE RACK IS TO DRY STANDPIPE DURING THESE PERIODS.
8. WELDS DRUMS & INSTRUMENT TAPS ON BOUNDARY ARE AT THE DOWNSTREAM END OF THE BETER ISOLATION VALVE.
9. CONNECTION FOR EMERGENCY MAKE-UP TO CRY USING TEMPORARY HOSE K2-28426 0-71

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
15	8/1/06	SCS	HPM	WHD	INCOMP DCR 10-10 DCH-88
14	1/27/06	SCS	HPM	WHD	INCOMP DCR 10-10 DCH-87
13	3/1/06	SCS	HPM	WHD	PORTAL INCOMP DCR 10-10 DCH-86
12	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-85
11	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-84
10	6/27/07	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-83
9	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-82
8	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-81
7	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-80
6	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-79
5	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-78
4	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-77
3	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-76
2	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-75
1	12/1/06	HPM	SCS	WHD	INCOMP DCR 10-10 DCH-74

**FPL ENERGY** Seabrook Station

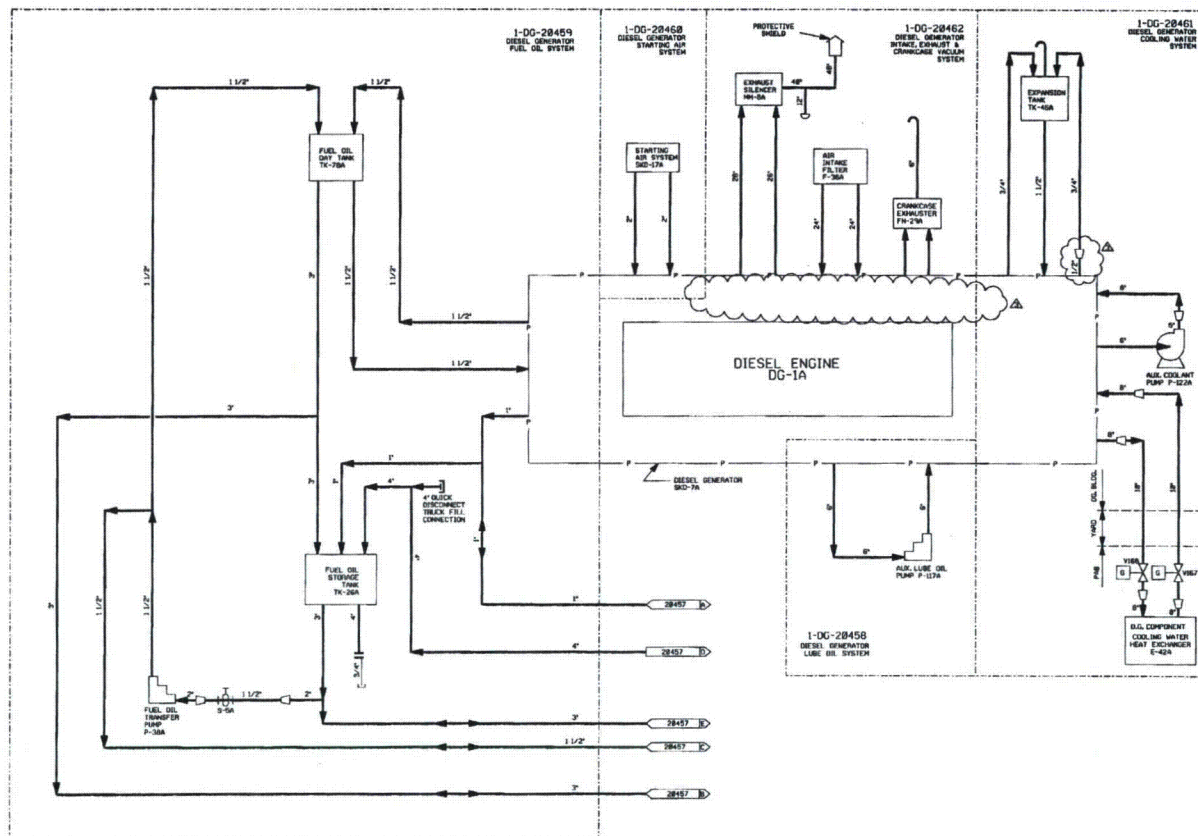
**FIRE PROTECTION STANDPIPE DETAIL**

**PID- 1-PP-B20268**



12 11 10 9 8 7 6 5 4 3 2 1

PID-1-DG-B20456



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20457, 20458, 20459, 20460, 20461 & 20462.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. Δ INDICATES REVISION LEVEL.

3	DATE	BY	CHK	PER	ADMINISTRATIVE UPDATE
1	08/27/03	WRL	WRL	WRL	REVISIONS SELECTED BY FROM OWNERS IN NOTE 1, REVISED PER LATEST SYS. MODS.
2	08/27/03	WRL	WRL	WRL	DESIGNED FOR OPERATION
3	08/27/03	WRL	WRL	WRL	INCORPORATED TYPING
4	08/27/03	WRL	WRL	WRL	DESIGNED FOR TAILA VERIFICATION
5	08/27/03	WRL	WRL	WRL	DESCRIPTION

**FPL ENERGY** Seabrook Station



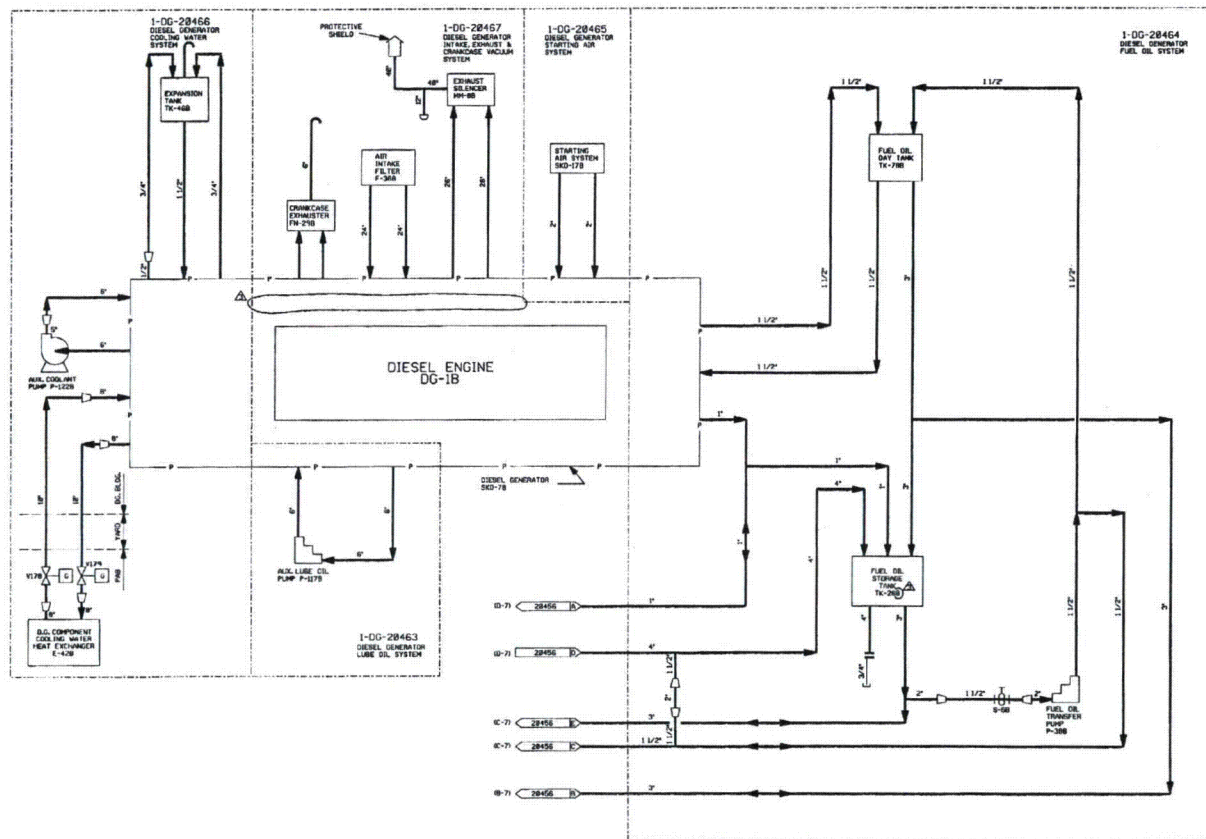
**DIESEL GENERATOR TRAIN 'A' OVERVIEW**

PID- 1-DG-B20456

NO.	DATE	BY	CHK	PER	DESCRIPTION
1	08/27/03	WRL	WRL	WRL	D.G. COOLING WATER - P&ID
2	08/27/03	WRL	WRL	WRL	D.G. AIR SYSTEM - P&ID
3	08/27/03	WRL	WRL	WRL	D.G. FUEL & LUBE OIL - P&ID
4	08/27/03	WRL	WRL	WRL	TITLE

18/27/03

PID-1-DG-B20457



NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 28465, 28466, 28467, 28468, 28469 & 28470.  
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.  
3. Δ INDICATES REVISION LEVEL.

3	1/2/83	JH	WKS	WKS	ADMINISTRATIVE UPDATE
2	1/2/83	WKS	WKS	WKS	REVISED EGAS SHOWN INCOMPLETE TERMS, REVISED PER LATEST SYSTEM DRAWING.
1	2/22/86	WKS	JCH	WKS	ISSUED FOR OPERATIONS
0	06/25/84	WKS	WKS	WKS	ISSUED FOR FIELD VERIFICATION
WKS	04/85	WKS	WKS	WKS	REVISION

**FPL ENERGY** Seabrook Station

**DIESEL GENERATOR TRAIN 'B' OVERVIEW**

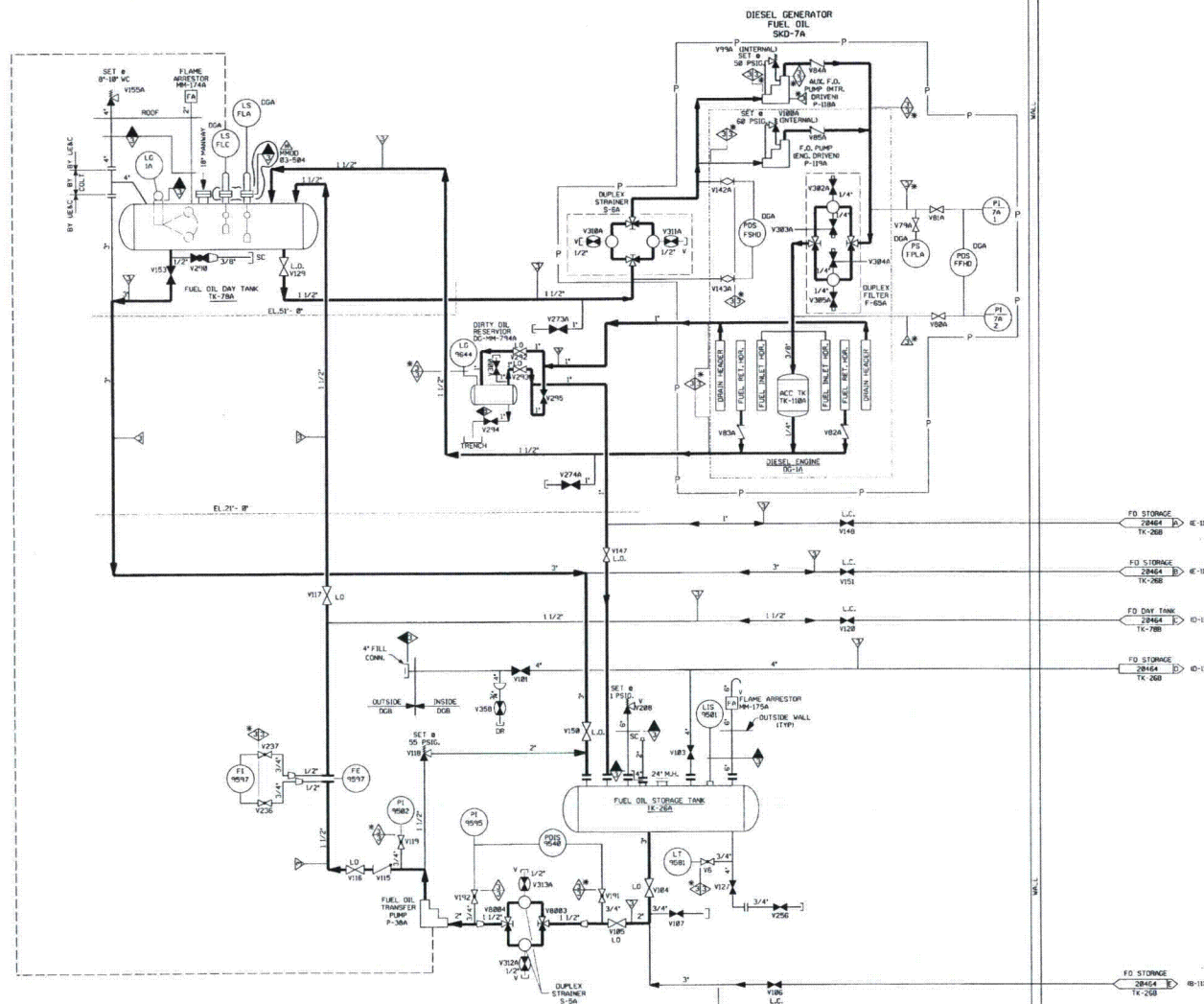
PID- 1-DG-B20457

1753-F-28282	IS	DWG. COOLING WATER - P&ID
1753-F-28282	IS	DWG. AIR SYSTEM P&ID
1753-F-28282	IS	DWG. FUEL & LUBE OIL P&ID
REF. DRAWING NO.	REV.	TITLE

18/27/83



PID-1-DG-B20459



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28456, 28457, 28458, 28468, 28461, 28462 & 28464.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DC.
  3. UNLESS NOTED OTHERWISE.
  4. DELETED.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6. DELETED.
  7. WENT, DRAWING AND TEST DATA SAFETY CLUES AND CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NAT-000101, UNLESS NOTED OTHERWISE.

16	10-1-08	JH	BLS	✓	PARTIAL INCORP. MHO 83-584 DCH 88
15	3/28/88	JH	BLS	JHE	INCORP. MHO 87-538 DCH 88 & MHO 83-584 DCH 88
14	5/8/88	BLS	HPW	MMC	INCORP. DCH 88-825 DCH 88
13	11/1/88	HPW	BLS	YAS	INCORP. MHO 78-558 CAB
12	8/1/88	BCL	HPW	RSU	INCORP. DCH 84-12 CA-8-B1 & MHO 80-583 CA-8
11	5/21/84	MHO	JCM	GRH	INCORP. MHO 82-546 CAB & DCH 78-8825 CAB
10	7/23/82	MHO	BCL	DLH	INCORP. DCH 88-813 CAB
9	5/26/82	MHO	BCL	DLH	PARTIAL INCORP. DCH 88-813 CAB
8	4/28/82	MHO	BCL	RHS	INCORP. MHO 78-515 CAB
7	8/24/81	MHO	JH	RHC	INCORP. DCH 88-445 CAB
6	8/14/81	MHO	APL	MMC	ADDED SYSTEM & TRAIN DESIGNATION PER 1-NAT-000207 & 5800P
5	1/7/87	HUJ	WFO	RHC	INCORP. DCH 89-33 CA 83 DELETED CODE BREAKS PER NOTE 7.
4	18/3/86	HAP	JDM	RHC	ADDED CONT. COORDINATES, REVISED PER PIPING ERTITION 150-1, ADDED CODE BREAKS/REVISED LSI-1A IN DCH 88-825 CAB
3	5/24/86	WAL	BCL	RHC	INCORP. DCH 84-12 CA-8-B1 & 88/181738
2	3/23/86	WAL	JDM	WFO	REVISED FOR OPERATIONAL & INCORP. NEW 87-538 DCH 88/11338
1	5/24/84	DWS	JDM	WFO	CODE BREAKS ADDED
0	8/2/84	WNE	JDM	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	ORGN	CHNG	CE	DESCRIPTION

**FPL ENERGY** Seabrook Station



**DIESEL GENERATOR  
FUEL OIL SYSTEM TRAIN 'A'  
DETAIL**

PID-1-DG-B20459

REV	DATE	ORGN	CHNG	CE	DESCRIPTION
PP 28061	9	EMERG	DIESEL GEN. JACKET WTR. EXP. TANK		
PP 28078	9	EMERG	DIESEL GEN. FUEL OIL DAY TANK		
1752-F-28282	16	DC	FUEL & LUBE OIL P&ID DIAGRAM		
REV. DRAWING NO.					TITLE





NOTES:

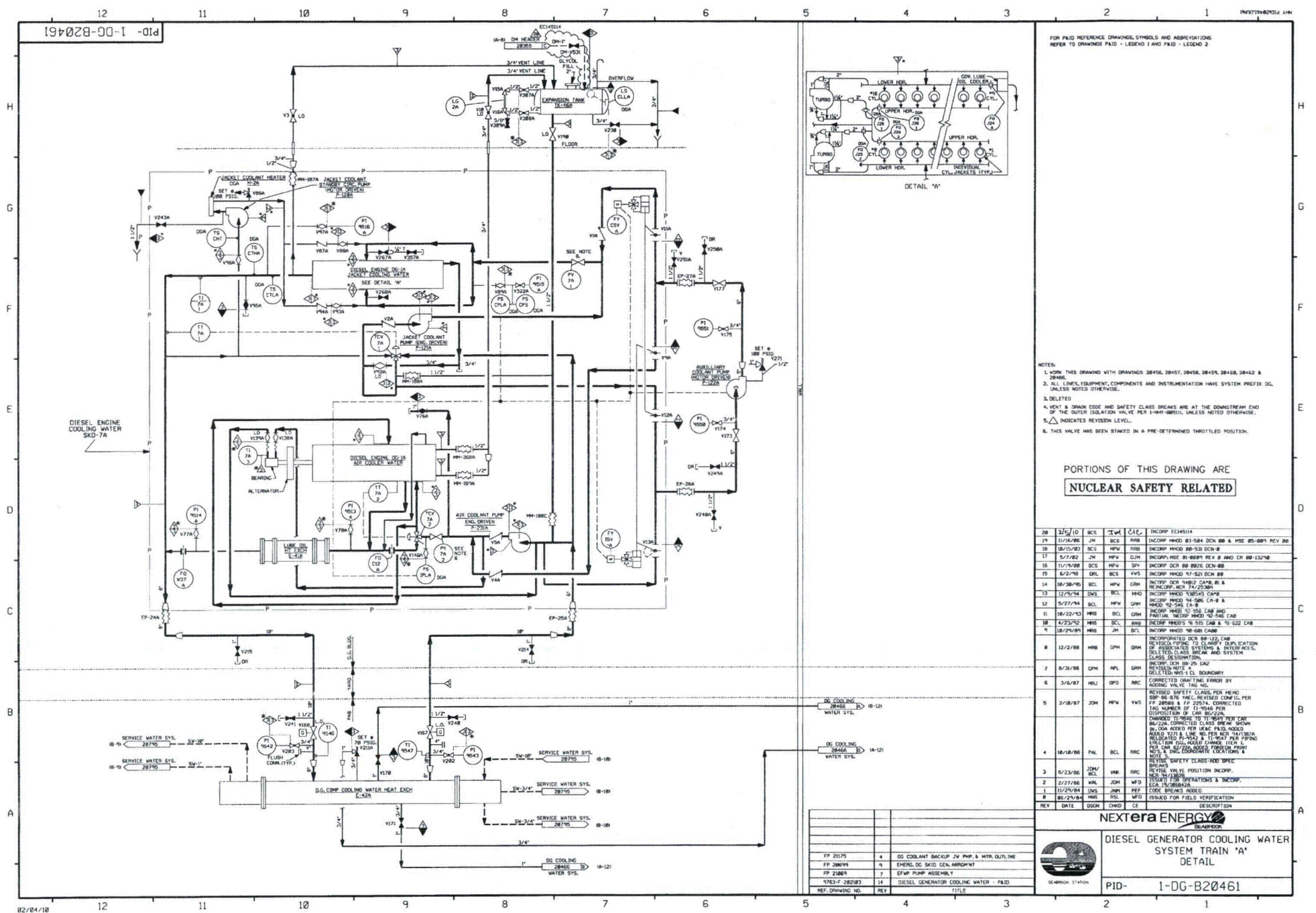
1. WORK THIS DRAWING WITH DRAWINGS 28456, 28457, 28459, 28463, 28465, 28466 & 28467.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
3. DELETED.
4. DELETED.

5.  $\Delta$  INDICATES REVISION LEVEL.

6. VENT, DRAINS AND TEST COPIES SAFETY CLASS AND CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER LUMPY-DEBELL UNLESS NOTED OTHERWISE.

 <b>FPL ENERGY</b>		Seabrook Station
	DIESEL GENERATOR FUEL OIL SYSTEM TRAIN 'B' DETAIL	
	PID- 1-DG-B20464	





FOR FIELD REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. VENT THIS DRAWING WITH DRAWINGS 28456, 28457, 28458, 28459, 28460, 28462 & 28463.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELTAS
  4. VENT & DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-MHY-0001, UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6. THIS VALVE HAS BEEN STAYED IN A PRE-DETERMINED THROTTLED POSITION.



PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	REVISION
1	11/16/86	JH	BCL	RAB	INCORP 104514	
2	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
3	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
4	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
5	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
6	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
7	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
8	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
9	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
10	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
11	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
12	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
13	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
14	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
15	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
16	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
17	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
18	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
19	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	
20	11/16/86	JH	BCL	RAB	INCORP 104514 DCM 88 & MSE 85-001 REV 88	

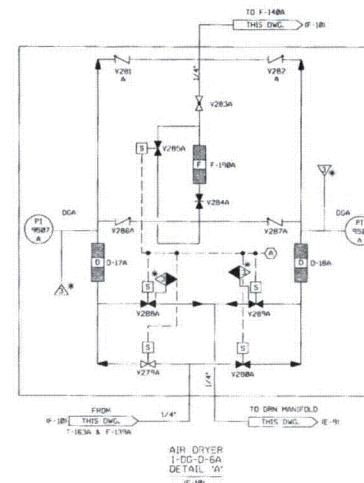
**Nextera Energy**  
SEABROOK

**DIESEL GENERATOR COOLING WATER SYSTEM TRAIN 'A' DETAIL**

PID- 1-DG-B20461

	
	DIESEL GENERATOR COOLING WATER SYSTEM TRAIN 'B' DETAIL
SEABROOK (14000)	PID- 1-DG-B20466





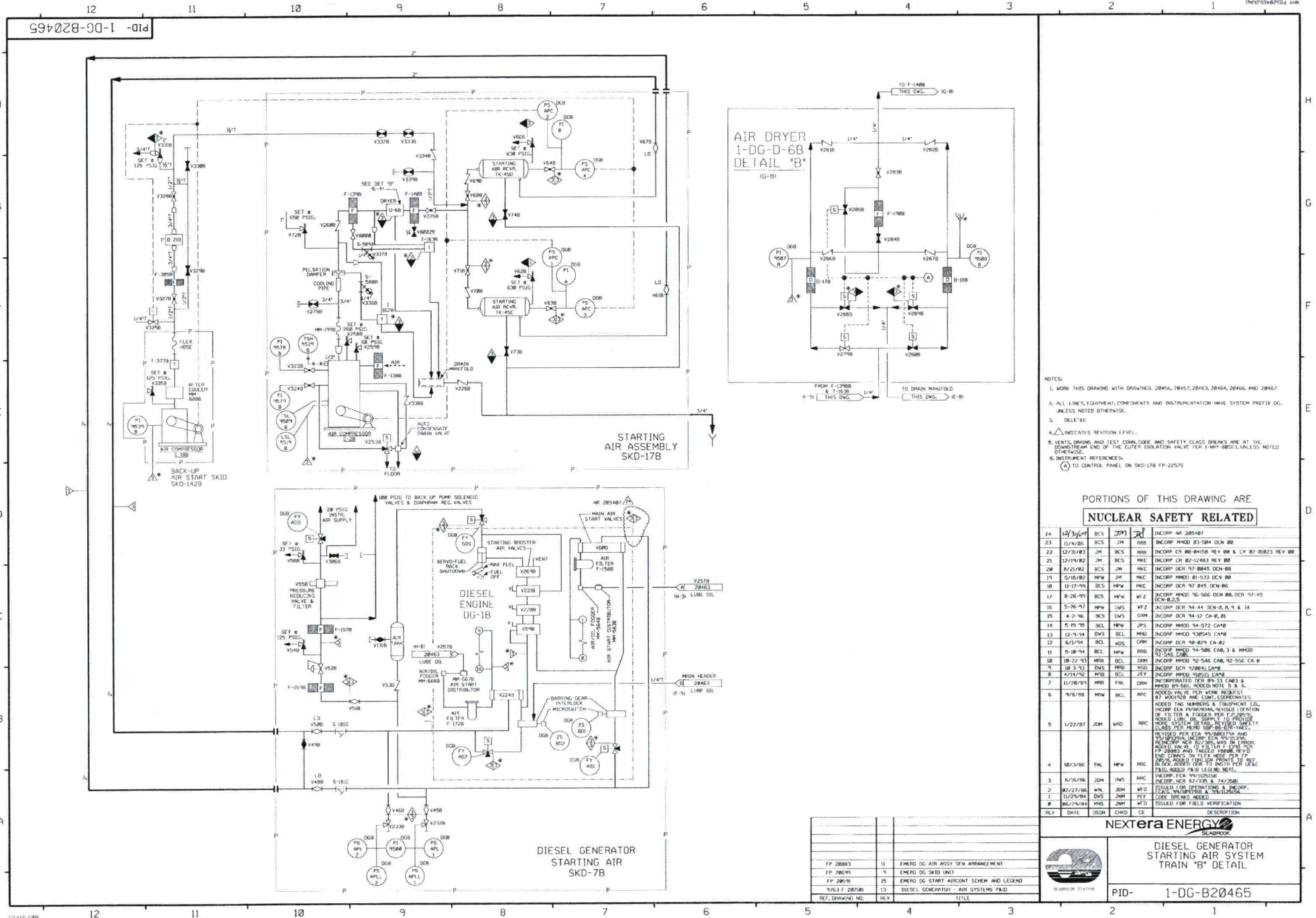
(A) TO CONTROL PANEL ON SKD-17A, FP-22574.

24	12/21/81	WJ	JTA	DEA	INCOPI APP 207448
23	9/21/81	BKS	JM	INCOPI APP 807 REF CR 87-1131	
22	3-26/87	BKS	JM	INCOPI MCH 83-584 DCM & CR 87-82287 REL V	
21	6/7/83	WJ	BKS	INCOPI MCH 83-584 507 508 & CR 87-81823 REL 88	
20	5-7/83	WJ	BKS	INCOPI MCH 83-584 507 508 & CR 87-81823 REL 88	
19	6/12/88	RLS	WDS	INCOPI MCH 87-18445 DCM-DN 88	
18	18/1/79	BKS	MPW	INCOPI DCH 87-18445 DCM-85, 86	
17	1/14/79	BKS	MPW	DJM INCOPI DCH 86-544 DCM-87, 87-45 DCH 86-82	
16	6/19/87	WJ	WDS	INCOPI MCH 86-544 CUB, CUB, & 14	
15	6/27/86	WJ	WDS	INCOPI MCH 86-544 CUB, CUB, & 14	
14	5/30/85	DWS	MPW	INCOPI MCH 74-85272 C&D	
13	12/2/84	DWS	BCL	INCOPI MCH 74-85272 C&D	
12	12/2/84	DWS	BCL	INCOPI MCH 74-85272 C&D	
11	5-22/84	BCL	MPW	INCOPI MCH 74-854 CUB, CUB, & 14	
10	10/27/84	WJ	BCL	INCOPI MCH 74-854 CUB, CUB, & 14	
9	11/7/82	WJ	WDS	INCOPI MCH 74-854 CUB, CUB, & 14	
8	4-17/82	WJ	BCL	INCOPI MCH 74-854 CUB, CUB, & 14	
7	18/5/79	MBB	APL	WTO INCOPI MCH 74-854 CUB, CUB, & 14	
6	8/14/79	WJ	WDS	INCOPI MCH 74-854 CUB, CUB, & 14	
5	1/22/77	JDM	REL	INCOPI MCH 74-854 CUB, CUB, & 14	
4	18/3/76	WJ	JDM	INCOPI MCH 74-854 CUB, CUB, & 14	
3	2/7/76	WJ	WDS	INCOPI MCH 74-854 CUB, CUB, & 14	
2	11/29/74	WJ	WDS	INCOPI MCH 74-854 CUB, CUB, & 14	
1	8/26/74	WJ	WDS	INCOPI MCH 74-854 CUB, CUB, & 14	
REV	0	0	0	0	

**NEXTERA ENERGY**

DIESEL GENERATOR STARTING AIR  
SYSTEM TRAIN 'A'  
DETAIL

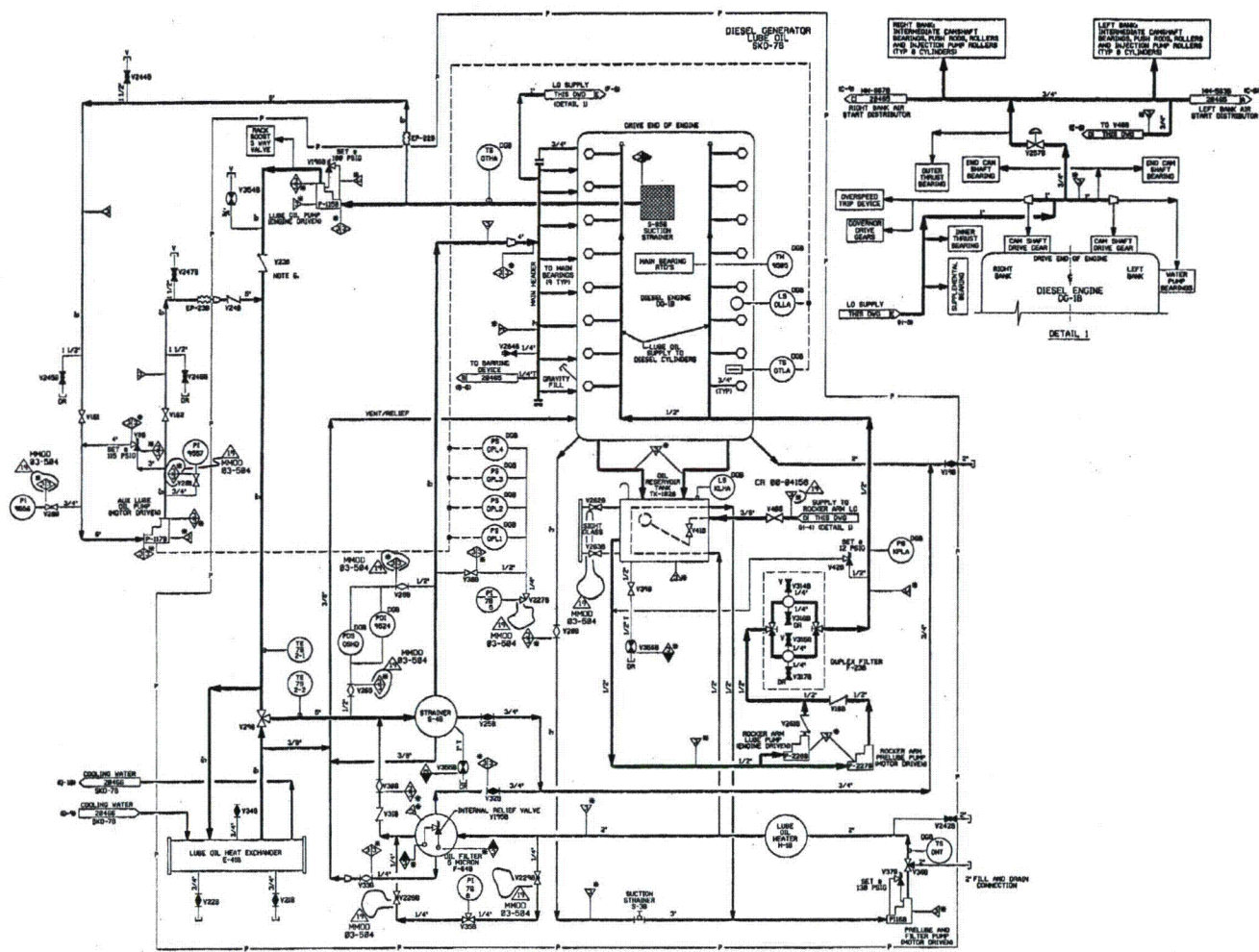
PID-	1-DG-B20460
------	-------------







101-1-DG-B20463



FOR PLS REFERENCE SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING PLS - LEGEND 1 AND PLS - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20463, 20464, 20465, 20466, & 20467.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SPECIFIC PREFIXES OR UNLESS NOTED OTHERWISE.
  3. DELETED.
  4. IDENT AND DRAIN SAFETY CLASS AND CODE SYMBOLS ARE AT THE BOUNDARY END OF THE ISOLATION VALVE FOR DESIGN EXTENDING 1/4" MINIMUM UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES RESTRICTION LEVEL.
  6. VALVE ORIFICE SIZES WITH 1/4" ORIFICE TO ALLOW DISCHARGE WITH ENGINE IN STANDBY.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
2	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
3	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
4	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
5	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
6	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
7	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
8	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
9	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
10	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
11	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
12	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
13	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
14	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
15	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
16	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
17	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
18	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
19	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.
20	12/15/84	JH	SCS	W	REWORK PLS 20463, 20464, 20465, 20466, & 20467.

**FPL ENERGY**

Seabrook Station



**DIESEL GENERATOR LUBE OIL  
SYSTEM TRAIN 'B'  
DETAIL**

PID- 1-DG-B20463

08/31/86

1 CATEGORY 1



PID-1-DG-B20462

FOR FIELD REFERENCE, IDENTIFY SYSTEMS  
AND EQUIPMENT WITH THE FOLLOWING  
TAG NUMBERS AND PREFIXES:

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

NOTES:  
1. NOTE THIS DRAWING WITH DRAWINGS 20462, 20463, 20464, 20465, & 20466.  
2. ALL Labeled Equipment, Components and Instrumentation Have System Prefixes as  
indicated on the drawing.  
3. DELETED  
4. VENT AND DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF  
THE ISOLATED ISOLATION VALVE FOR DESIGN STANDARD 1-001-0001, UNLESS NOTED  
OTHERWISE.  
5. Δ INDICATES REVISION LEVEL.

REV	DATE	BY	CHKD	DESCRIPTION
1	11/16/86	JH	WSE	INCOMP. W/08 80-584 DCM 80
2	06/16/87	SCS	WPS	INCOMP. W/08 80-584 DCM 80
3	11/26/87	WPS	WPS	INCOMP. W/08 80-584 DCM 80
4	01/21/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
5	06/17/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
6	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
7	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
8	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80

**FPL ENERGY**

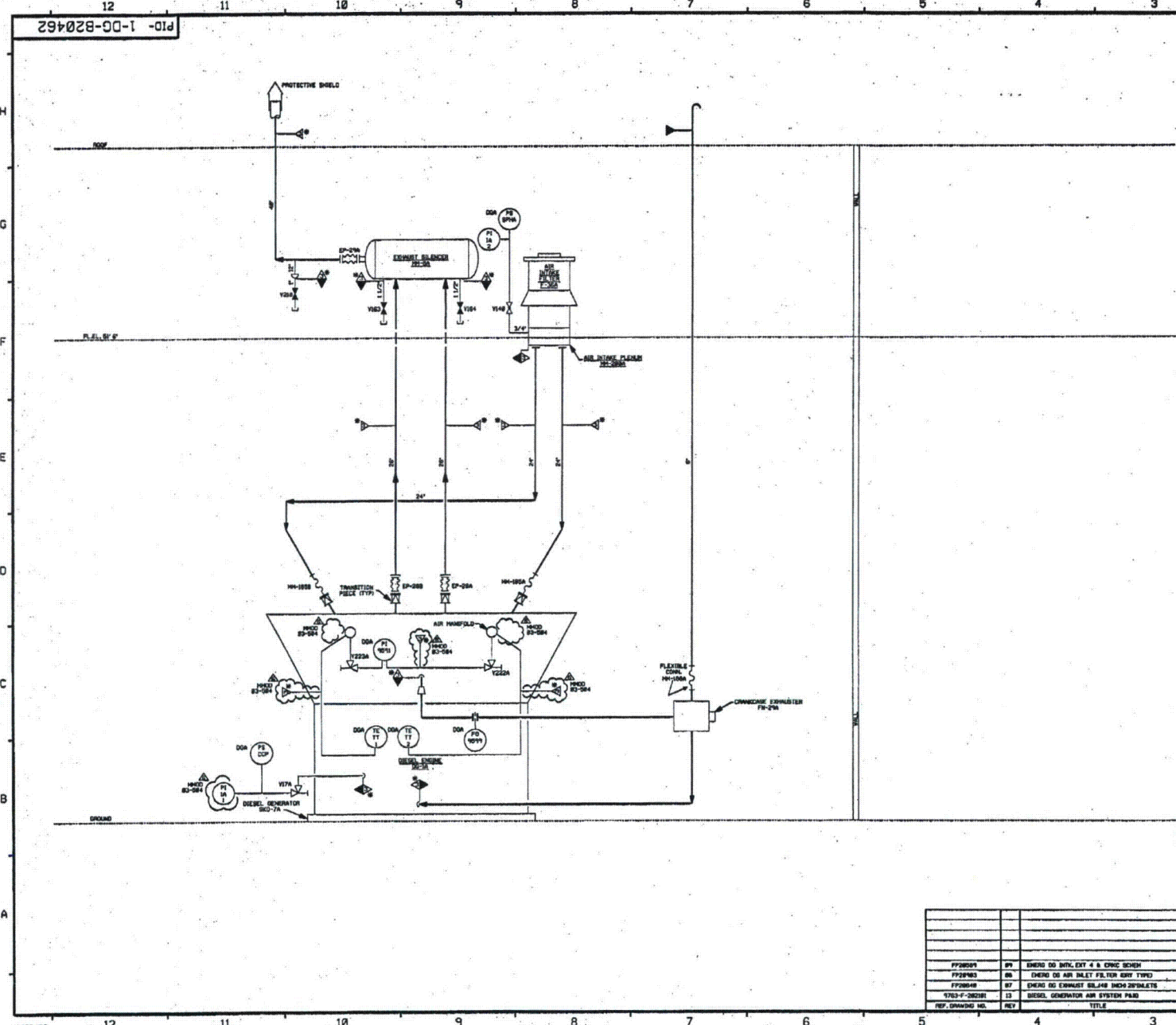
Seabrook Station



**DIESEL GENERATOR INTAKE, EXHAUST  
& CRANKCASE VACUUM SYSTEM  
TRAIN 'A'  
DETAIL**

PID- 1-DG-B20462

REV	DATE	BY	CHKD	DESCRIPTION
1	11/16/86	JH	WSE	INCOMP. W/08 80-584 DCM 80
2	06/16/87	SCS	WPS	INCOMP. W/08 80-584 DCM 80
3	11/26/87	WPS	WPS	INCOMP. W/08 80-584 DCM 80
4	01/21/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
5	06/17/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
6	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
7	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80
8	02/27/88	WPS	WPS	INCOMP. W/08 80-584 DCM 80



11/86/88

PID-1-DG-B20467

THIS DRAWING IS UNCLASSIFIED AND INFORMATION IS TO BE RELEASED TO THE PUBLIC ON REQUEST

PORTIONS OF THIS DRAWING ARE  
NUCLEAR SAFETY RELATED

NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20465, 20467, 20468, 20469, 20470, & 20471.  
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.  
3. ISOLATED.  
4. Δ INDICATES REVISION LEVEL.  
5. VENT AND DRAIN CODE AND SAFETY CLASS BEINGS ARE AT THE SEAMSTEAM END OF THE BUTTER ISOLATION VALVE PER DESIGN STANDARD 1-601-0001, UNLESS NOTED OTHERWISE.

REV	DATE	BY	CHKD	APPD	DESCRIPTION
1	8/26/94	DWG	SCS	CVE	INCOPI 11400 114000A COMPB & IS
2	7/28/97	REV	SCS	CVE	INCOPI 11400 114000A COMPB & IS
3	10/2/98	SCS	SCS	SCS	INCOPI 11400 114000A COMPB & IS
4	5/21/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
5	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
6	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
7	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
8	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
9	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
10	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
11	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
12	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
13	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
14	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
15	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
16	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
17	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
18	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
19	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS
20	10/3/99	REV	SCS	SCS	INCOPI 11400 114000A COMPB & IS

FPL ENERGY

Seabrook Station



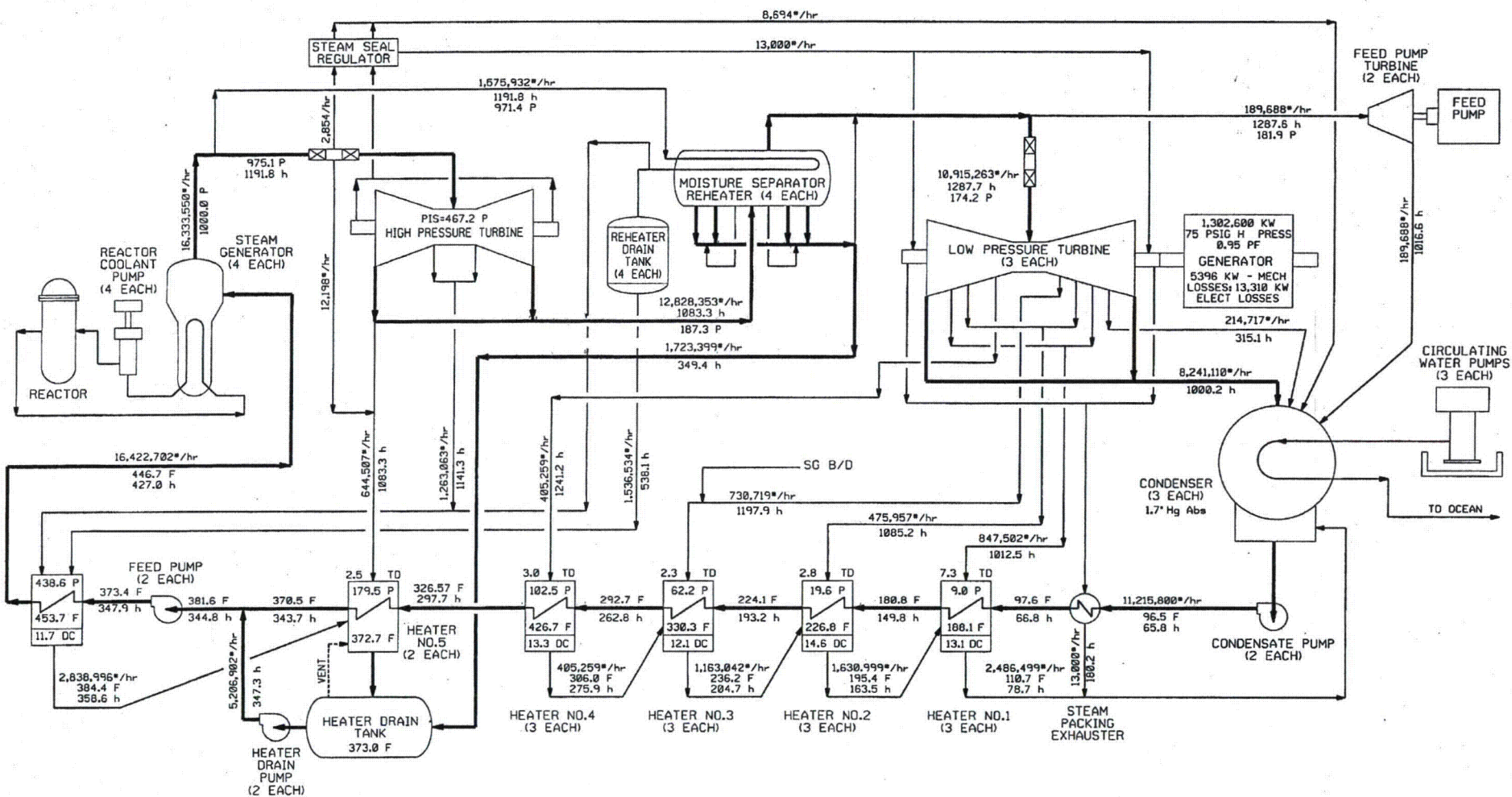
DIESEL GENERATOR  
INTAKE EXHAUST & CRANKCASE  
VACUUM SYSTEM, TRAIN 'B'  
DETAIL

PID-1-DG-B20467


REV	DATE	BY	CHKD	APPD	DESCRIPTION
1	11/06/06	PP	SCS	CVE	END OF INT. EXH & CRANKCASE VACUUM SYS
2	11/06/06	PP	SCS	CVE	END OF AIR INLET FILTER ENTRY TYPE
3	11/06/06	PP	SCS	CVE	END OF CRANKCASE VACUUM INLET
4	11/06/06	PP	SCS	CVE	END OF AIR VIB. PUMP

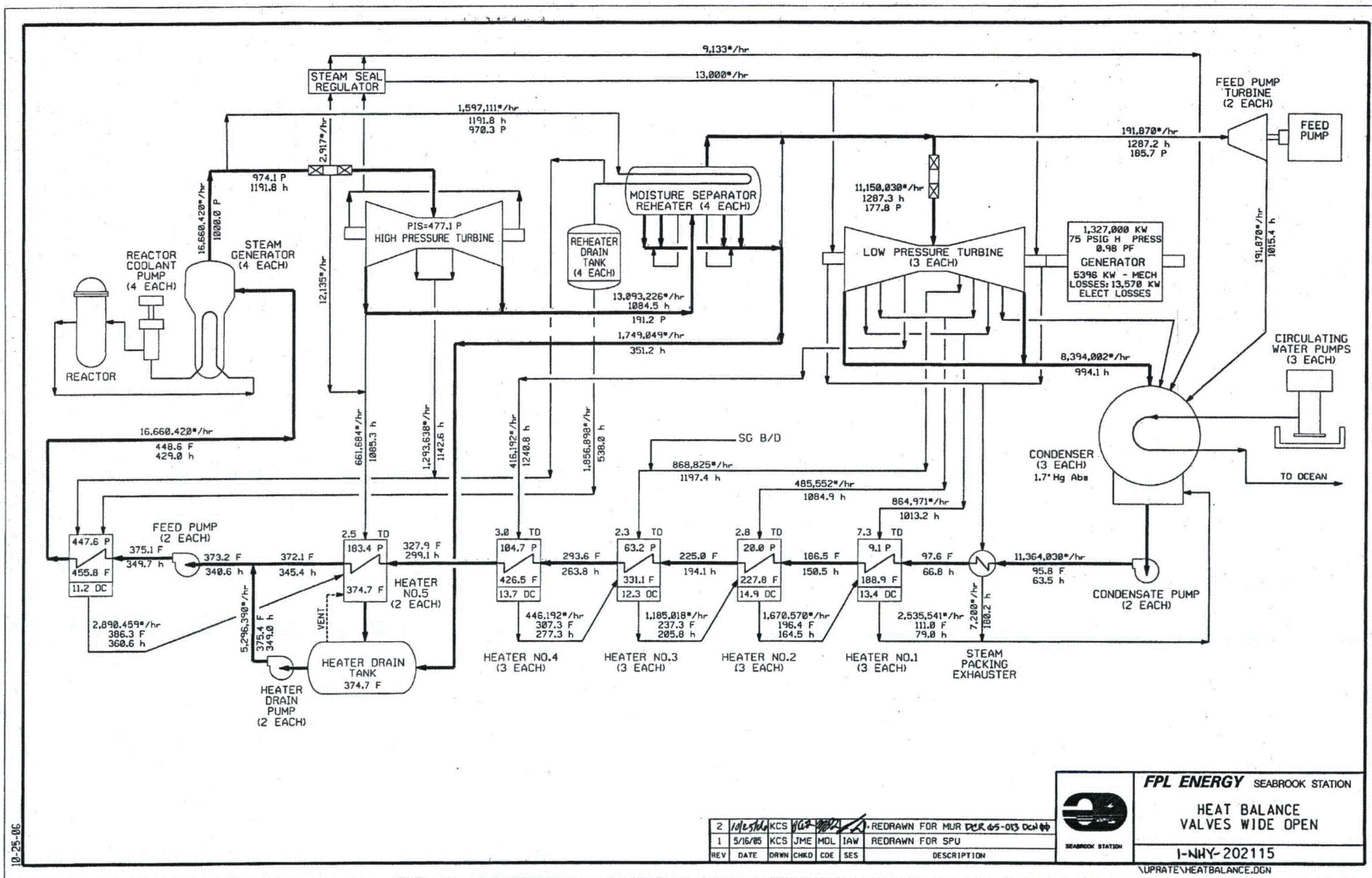
11/06/06





4	1/15/66	KCS	VS	100	REDRAWN FOR MUR	DEC 04 - 015 DCN 00
3	5/16/65	KCS	JME	MHC	REDRAWN FOR SPU	DEC 05 - 003 DCN 00
REV	DATE	DRWN	CHKD	CDE	SES	DESCRIPTION

 <b>FPL ENERGY</b> SEABROOK STATION	<b>HEAT BALANCE</b>
	<b>100 % LOAD</b>
	<b>1-NHY-202116</b>
XUPRATE\HEATBALANCE.DGN	





NOTES:

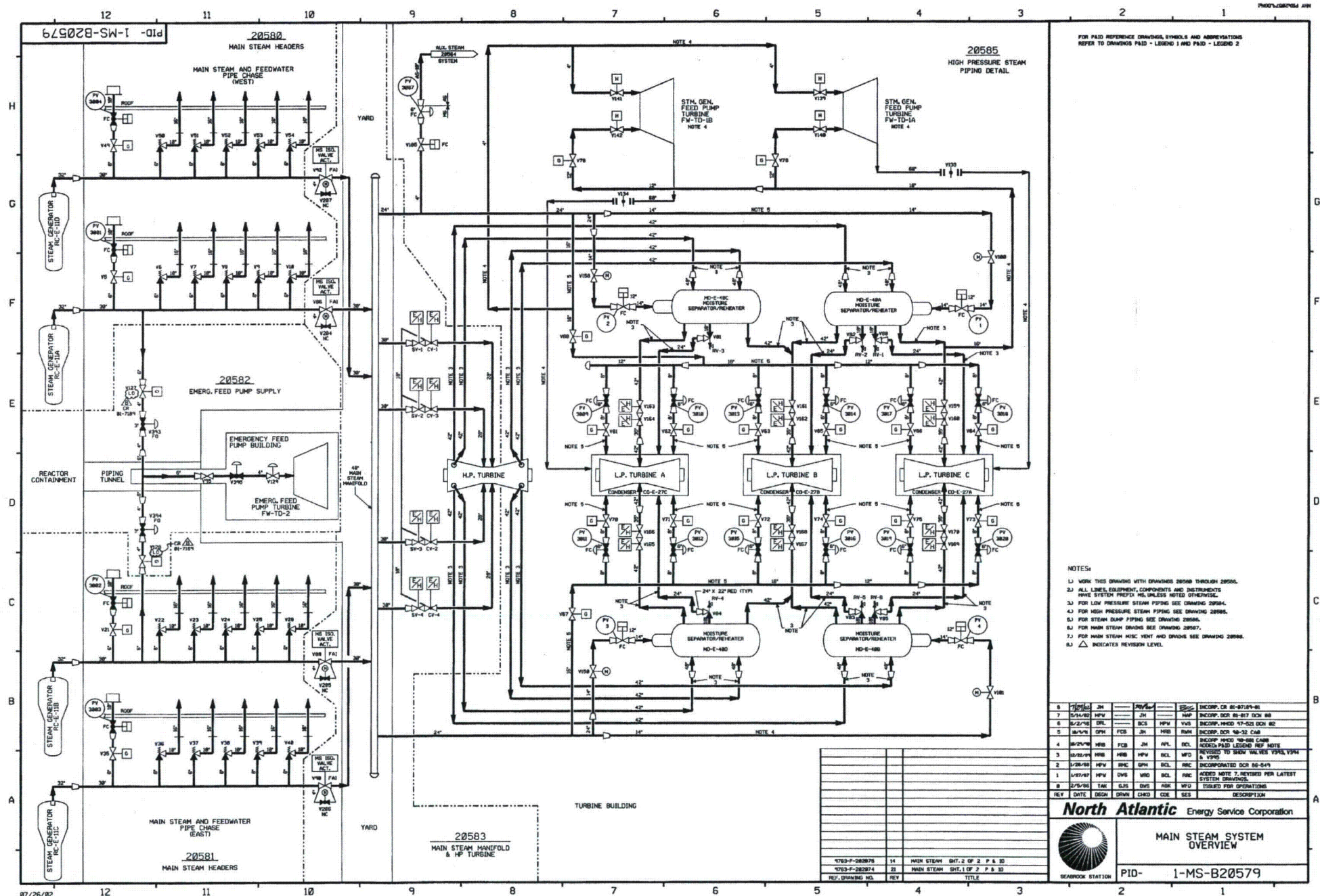
1. THE HG SYSTEM IS A ONE (1) DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS AHS UNLESS NOTED OTHERWISE.
4.  $\Delta$  INDICATES REVISION LEVEL.
5. ~~DELETED~~

**FPL ENERGY** Seabrook Station

## HYDROGEN GAS SYSTEM

PID- 1-HG-B20888

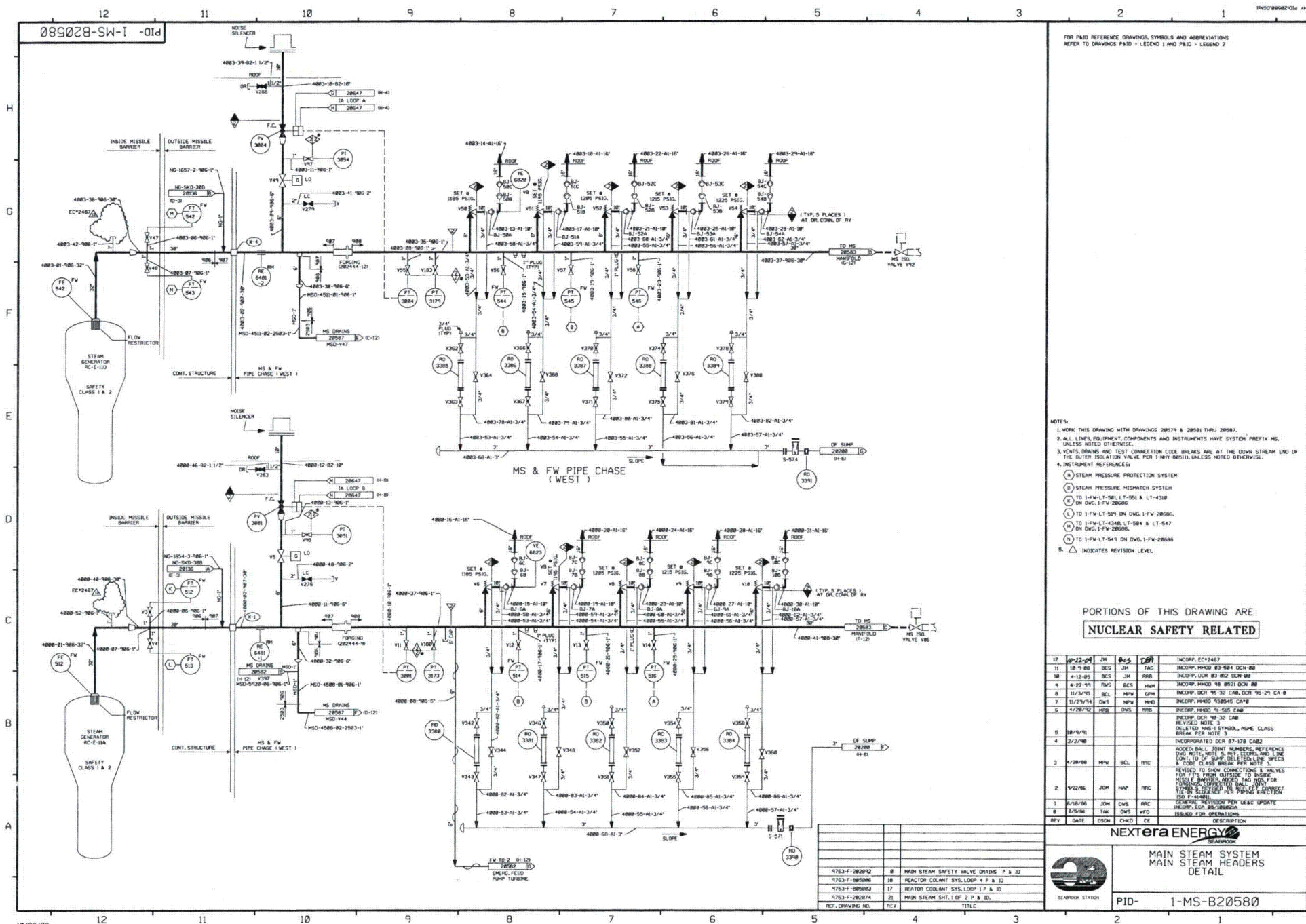
9763-F-615824	8	ADMIN. & SERV. BLDG. FIRST FLR. SMT. 3
9763-F-615831	5	ADMIN. & SERV. BLDG. PLUMBING-GAS
FP-56242	2	HYD. PRESS. MED. & FLOW CONTROL STATION
9763-F-609512	12	RADIOACTIVE GAS WASTE SYS. P&I D.
9763-F-609538	4	GAS SERVICE SYS. HYDROGEN P&I D.
REF. DRAWING NO.	REV	TITLE

**North Atlantic** Energy Service Corporation

## MAIN STEAM SYSTEM OVERVIEW

PID- 1-MS-B20579





FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWING P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES**
1. WORK THIS DRAWING WITH DRAWINGS 20579, 20581 THRU 20587.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
  3. VENTS, DRAINS AND TEST CONNECTION CODES SHOWN ARE AT THE DOWN STREAM END OF THE OUTLET ISOLATION VALVE, UNLESS NOTED OTHERWISE.
  4. INSTRUMENT REFERENCES:
    - (A) STEAM PRESSURE PROTECTION SYSTEM
    - (B) STEAM PRESSURE MISMATCH SYSTEM
    - (C) TO 1-FW-LT-504, LT-505 & LT-506
    - (D) ON DVG. 1-FW-20580
    - (E) TO 1-FW-LT-509 ON DVG. 1-FW-20580
    - (F) TO 1-FW-LT-510, LT-504 & LT-507
    - (G) ON DVG. 1-FW-20580
    - (H) TO 1-FW-LT-549 ON DVG. 1-FW-20580
  5. Δ INDICATES REVISION LEVEL.

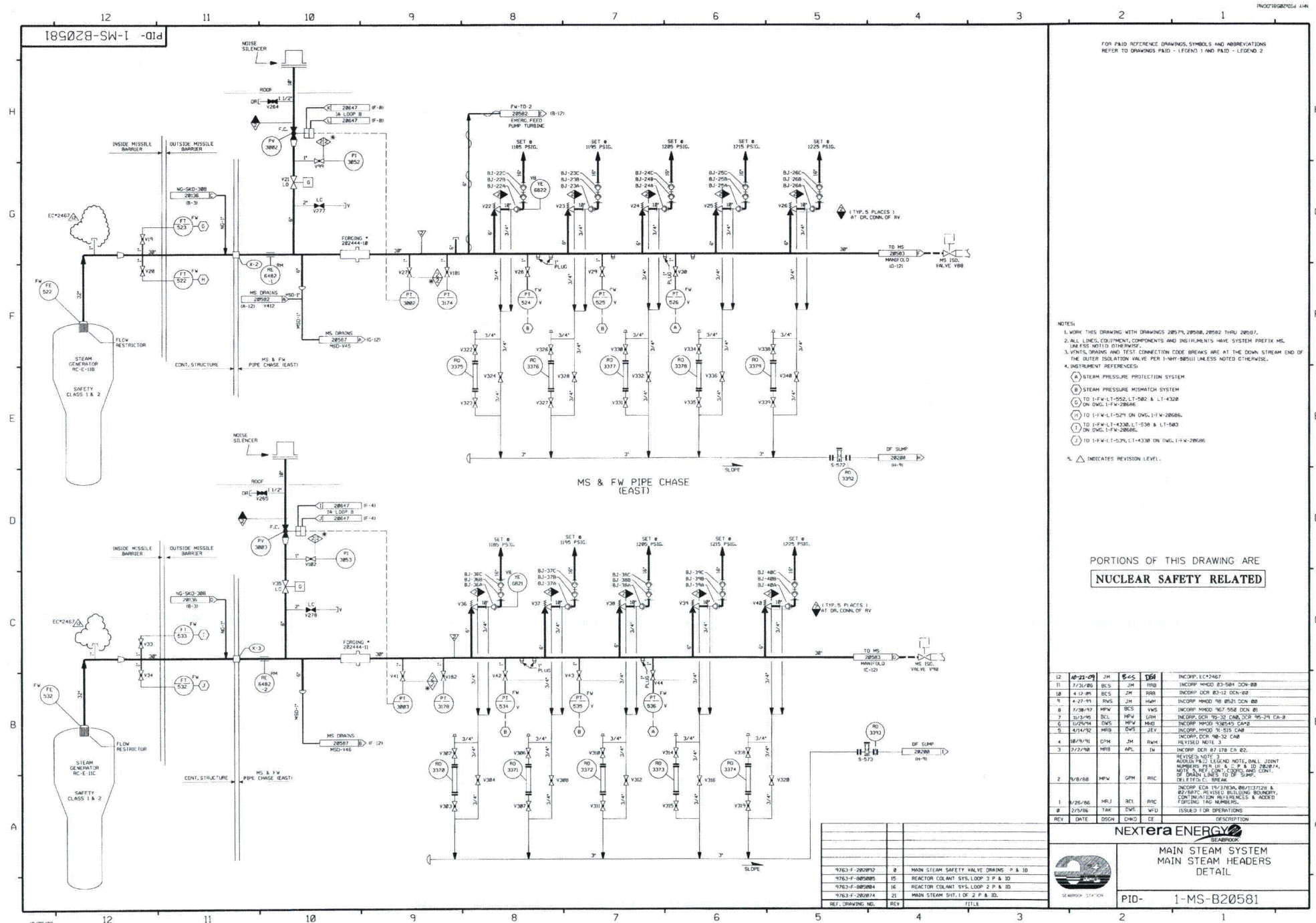
PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

12	10/22/09	JM	BWS	DR	INCORP. ECR 20467
11	10/19/09	BWS	JM	TAS	INCORP. MMS 83-584 DCM-80
10	4/12/09	BWS	JM	RRB	INCORP. DCR 83-812 DCM-80
9	4/22/09	TWO	BWS	AAH	INCORP. MMS 84-855 DCM-80
8	11/3/08	BCL	MPW	GPH	INCORP. DCR 75-32 CAB, DCR 76-25 CA-8
7	11/27/08	DWS	MPW	MMD	INCORP. MMS 93-545 CAB
6	4/28/08	DWS	DWS	RRB	INCORP. MMS 76-515 CAB
5	10/16/06				INCORP. DCR 70-32 CAB
4	2/22/06				INCORP. DCR 87-178 CAB
3	3/28/06	MPW	BCL	RRB	INCORP. DCR 70-32 CAB
2	1/22/06	JOH	MAP	RRB	INCORP. DCR 70-32 CAB
1	5/18/05	JOH	DWS	RRB	INCORP. DCR 70-32 CAB
0	3/5/05	TAK	DWS	WFO	INCORP. ECR 80-20580
REV	DATE	BY	CHKD	EX	DESCRIPTION

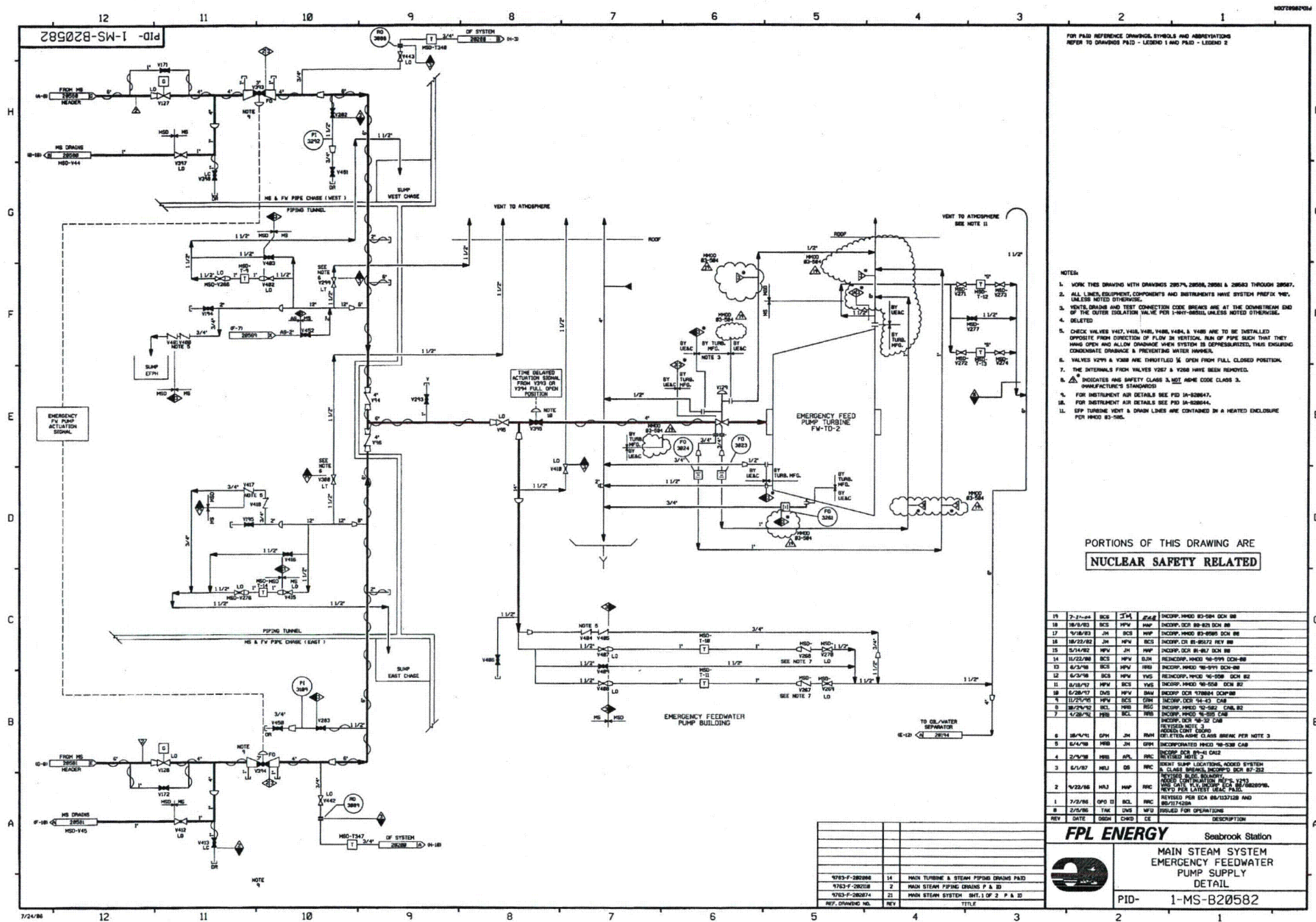
**NEXTERA ENERGY**  
BEAVERCREEK

**MAIN STEAM SYSTEM  
MAIN STEAM HEADERS  
DETAIL**

**PID-1-MS-B20580**







FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

## NOTES

- 3. WORK THE DRAWING WITH DIMENSIONS 2857A, 2858A, 2859A & 2862A THROUGH 2867A.
- 4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SPECIAL PREFIX AND SUFFIX UNLESS NOT OTHERWISE.
- 5. VENTS, DRAINING AND THERMOCouple CONNECTION COE (BROKEN) ARE AT THE BOTTOM/END END OF THE DUTY ISOLATION VALVE BUT NOT-INSTALLED UNLESS NOT OTHERWISE.
- 6. CHECKED
- 7. VALVES V407, V410, V416, V408, V404B, V408A & V408B ARE TO BE INSTALLED OPPOSITE FROM DIRECTION OF FLOW IN HORIZONTAL RUN OF PIPE SUCH THAT THEY WILL ALLOW FLOW DIRECTION TO BE DETERMINED. THIS ENSURES CONCENTRATE DRAINAGE & PREVENTING WATER HAMMER.
- 8. VALVES V301 & V302 ARE THROTTLED 1/2 OPEN FROM FULL, CLOSED POSITION.
- 9. THE INTERNALS FROM VALVES V301 & V302 HAVE BEEN REPAIRED.
- 10. ~~A~~ INDICATES THE SAFETY CLASS 3, ~~NOT~~ ARE COE CLASS 3.
- 11. MANUFACTURER'S STANDARDS
- 12. FOR INSTRUMENT AIR DETAILS SEE PID-1008647.
- 13. FOR INSTRUMENT AIR DETAILS SEE PID-1008644.
- 14. SPP THROUGH VENT & DRAIN LINES ARE CONTAINED IN A HEATED ENCLOSURE.
- 15. END OF SHEET.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

19	7/21/84	BGS	JWA	RECAP. MHDD 85-0586 DCH 88
20	8/6/1983	HPV	HPV	INCORPORATED DCH 85-0586 DCH 88
21	7/18/1983	JN	SCB	INCORPORATED MHDD 85-0586 DCH 88
22	18/12/1982	JN	HPV	INCORP. CH 85-05172 HEV 88
23	5/14/1982	HPV	JN	INCORP. DCH 85-0673 DCH 88
24	10/12/88	BGS	HPV	REINVESTOR. MHDD 85-0591 DCH-88
25	12/2/78	HPV	HPV	RECAP. DCH 85-0586 DCH 88
26	12/6/78	BGS	HPV	REINVESTOR. MHDD 85-0586 DCH 88
27	11/01/77	HPV	BGS	INCORP. MHDD 85-0558 DCH 82
28	6/28/77	DMS	HPV	RECAP. DCH 17-0434 DCH 88
29	10/2/76	HPV	BGS	INCORP. DCH 85-0586 DCH 88
30	12/2/76	HPV	HPV	RECAP. DCH 85-0586 DCH 88
31	7/28/76	HRB	BCL	RECAP. DCH 85-0586 DCH 88
32	18/4/74	DPN	JN	RECAP. DCH 85-0586 DCH 88
33	6/4/74	HRB	JN	INCORPORATED MHDD 85-0586 DCH 88
34	2/2/74	HRB	ATL	RECAP. DCH 85-0586 DCH 88
35	3/1/73	HULI	DR	RECAP. DCH 85-0586 DCH 88
36	2/22/76	HULI	HRP	RECAP. DCH 85-0586 DCH 88
37	7/2/76	OPD	BCL	RECAP. DCH 85-0586 DCH 88
38	2/15/76	TAK	DMS	RECAP. DCH 85-0586 DCH 88

**FPL ENERGY**

Seabrook Station

MAIN STEAM SYSTEM  
EMERGENCY FEEDWATER  
PUMP SUPPLY  
DETAIL

PID- 1-MS-B20582



NOTES

1. WORK THIS DRAWING WITH DRAWINGS 28079 THRU 28082 & 28084 THRU 28087.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MS, UNLESS NOTED OTHERWISE.
4. DELETED
5. ABOVE SEAT DRAINS ON BOTH TURBINE STOP VALVES & TURBINE CONTROL VALVES ARE SHOWN ON DRAWING 28087.
6.  $\Delta$  INDICATES REVISION LEVEL.
7. TO HYDRAULIC SYSTEM SEE F232803 SHT 9 & 13 ITEMS 2-3L3-31 & 2-7.
8. VALVE MAY BE OPEN DURING PLANT START-UP OR SURVEILLANCE TESTING UNLESS NOTED OTHERWISE.

18	1/1/78	BCL	W	INCORPORATED
19	8/14/78	BCL	OW	INCORP CD# 87-083 DCH-87
20	10-11-78	BCL	HW	INCORP CD# 84-045 DCH-AN-81
21	12-23-78	W	BCL	INCORP. CD# 84-1822 N.E.B.
22	7/7/79	W	BCL	INCORP WIDE 83-111
23	6/2/79	OWL	BCL	WVS INCORP WMO# 17-521 DCH 81
24	8/18/79	HW	BCL	WVS INCORP WMO# 16-958 DCH 81
25	1/19/79	BCL	WMO	INCORP WMO# 16-575 CH
26	1/19/79	HW	BCL	INCORP WMO# 16-531 CH
27	1/19/79	HW	BCL	INCORP WMO# 16-633 CH#1
28	6/27/79	HW	BCL	INCORP WMO# 16-633 CH#2
29	6/27/79	HW	BCL	INCORP WMO# 16-681 CH# 8
30	5/29/78	HW	WV	INCORP CD# 87-214 D CH-86-541
31	5/29/78	HW	WV	INCORP CD# 86-541
32	5/18/77	GMW	DWS	NOTED INFORMATION SHUT OFF VALVES & NOTED 7/19/77
33	5/22/77	GMW	DWS	NOTED CONTROL, LINE TO LEAK CONTROL, SYSTEM PER LOSS CONTROL, LOW DISCHARGE, REVERSED DOWNS TO PREVENT UNWANTED CONDITIONS.
34	10/6/76	HW	HW	INCORP CD# 84-045 DCH-AN-81
35	6/23/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
36	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
37	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
38	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
39	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
40	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
41	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
42	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
43	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
44	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
45	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
46	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
47	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
48	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
49	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
50	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
51	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
52	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
53	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
54	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
55	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
56	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
57	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
58	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
59	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
60	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
61	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
62	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
63	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
64	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
65	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
66	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
67	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
68	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
69	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
70	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
71	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
72	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
73	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
74	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
75	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
76	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
77	7/25/76	OPQ	HW	INCORP CD# 84-045 DCH-AN-81
78	7/25/76	OPQ	HW	INCORP CD# 84-045 D

**NEXtera ENERGY**

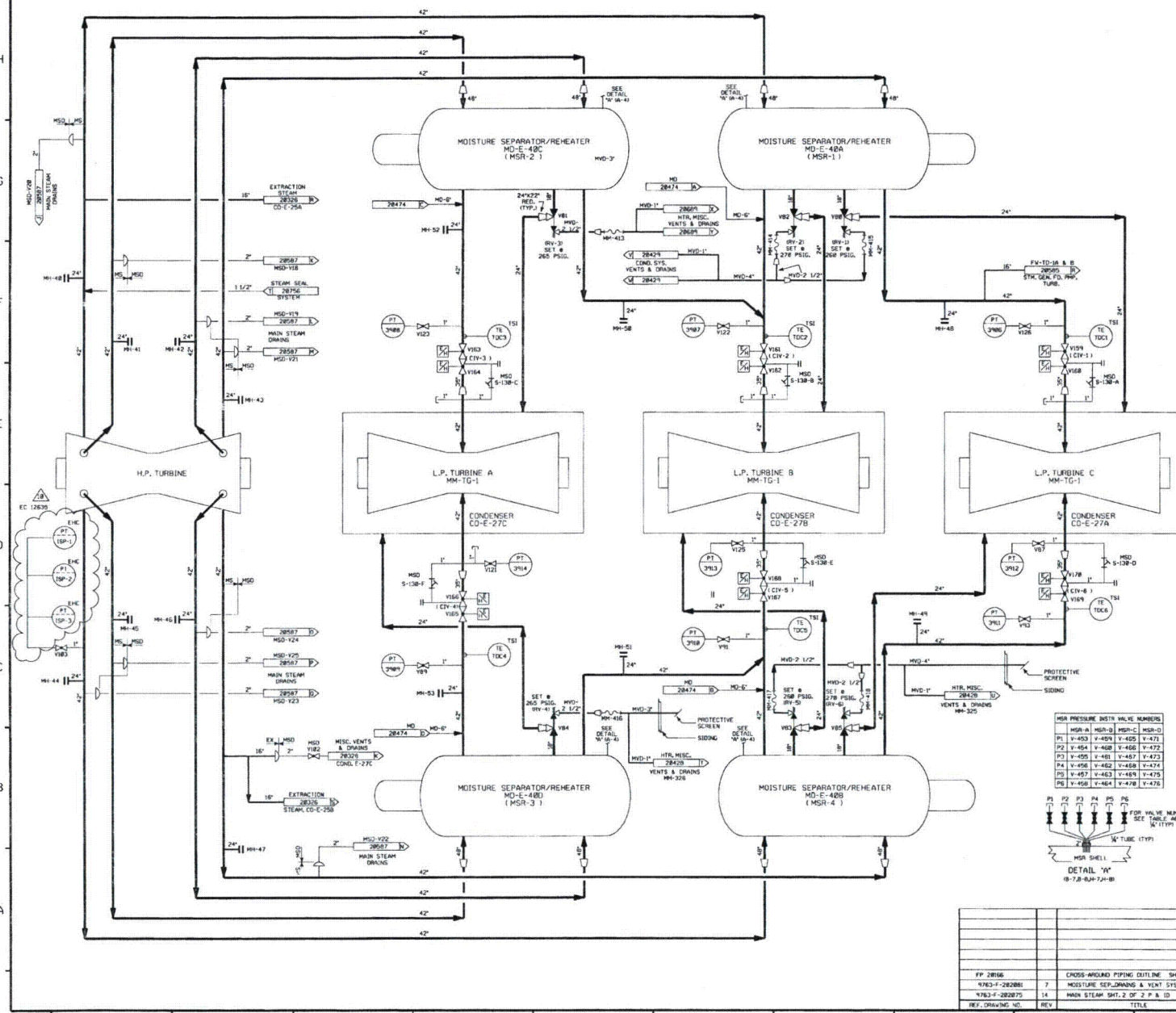
MAIN STEAM SYSTEM  
MAIN STEAM MANIFOLD  
& H.P. TURBINE PIPING  
DETAIL

PID- 1-MS-B20583

[illegible]

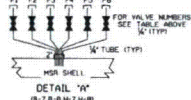


PID-1-MS-B20584



- NOTES
1. WORK THIS DRAWING WITH DRAWINGS 28579 THRU 28583 & 28585 THRU 28587.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MS, NON-SAFETY CLASS T, UNLESS NOTED OTHERWISE.
  4. Δ INDICATES REVISION LEVEL.

MSR-A	MSR-B	MSR-C	MSR-D
PI V-453	V-454	V-455	V-471
PI V-454	V-456	V-457	V-472
PI V-455	V-458	V-459	V-473
PI V-456	V-462	V-463	V-474
PI V-457	V-464	V-465	V-475
PI V-458	V-466	V-467	V-476



REV	DATE	DESCRIPTION
1	10/22/89	ISSUED FOR CONSTRUCTION
2	11/13/89	REVISION TO ADD VALVE V-100
3	12/13/89	REVISION TO ADD VALVE V-101
4	1/13/90	REVISION TO ADD VALVE V-102
5	2/13/90	REVISION TO ADD VALVE V-103
6	3/13/90	REVISION TO ADD VALVE V-104
7	4/13/90	REVISION TO ADD VALVE V-105
8	5/13/90	REVISION TO ADD VALVE V-106
9	6/13/90	REVISION TO ADD VALVE V-107
10	7/13/90	REVISION TO ADD VALVE V-108
11	8/13/90	REVISION TO ADD VALVE V-109
12	9/13/90	REVISION TO ADD VALVE V-110

NO.	DATE	BY	CHKD	DESCRIPTION
1	10/22/89	BCS	JM	ISSUED FOR CONSTRUCTION
2	11/13/89	BCS	JM	REVISION TO ADD VALVE V-100
3	12/13/89	BCS	JM	REVISION TO ADD VALVE V-101
4	1/13/90	BCS	JM	REVISION TO ADD VALVE V-102
5	2/13/90	BCS	JM	REVISION TO ADD VALVE V-103
6	3/13/90	BCS	JM	REVISION TO ADD VALVE V-104
7	4/13/90	BCS	JM	REVISION TO ADD VALVE V-105
8	5/13/90	BCS	JM	REVISION TO ADD VALVE V-106
9	6/13/90	BCS	JM	REVISION TO ADD VALVE V-107
10	7/13/90	BCS	JM	REVISION TO ADD VALVE V-108
11	8/13/90	BCS	JM	REVISION TO ADD VALVE V-109
12	9/13/90	BCS	JM	REVISION TO ADD VALVE V-110



MAIN STEAM SYSTEM  
LOW PRESSURE STEAM PIPING  
DETAIL

PID-1-MS-B20584







- [illegible]

PID- 1-MS-B20586







