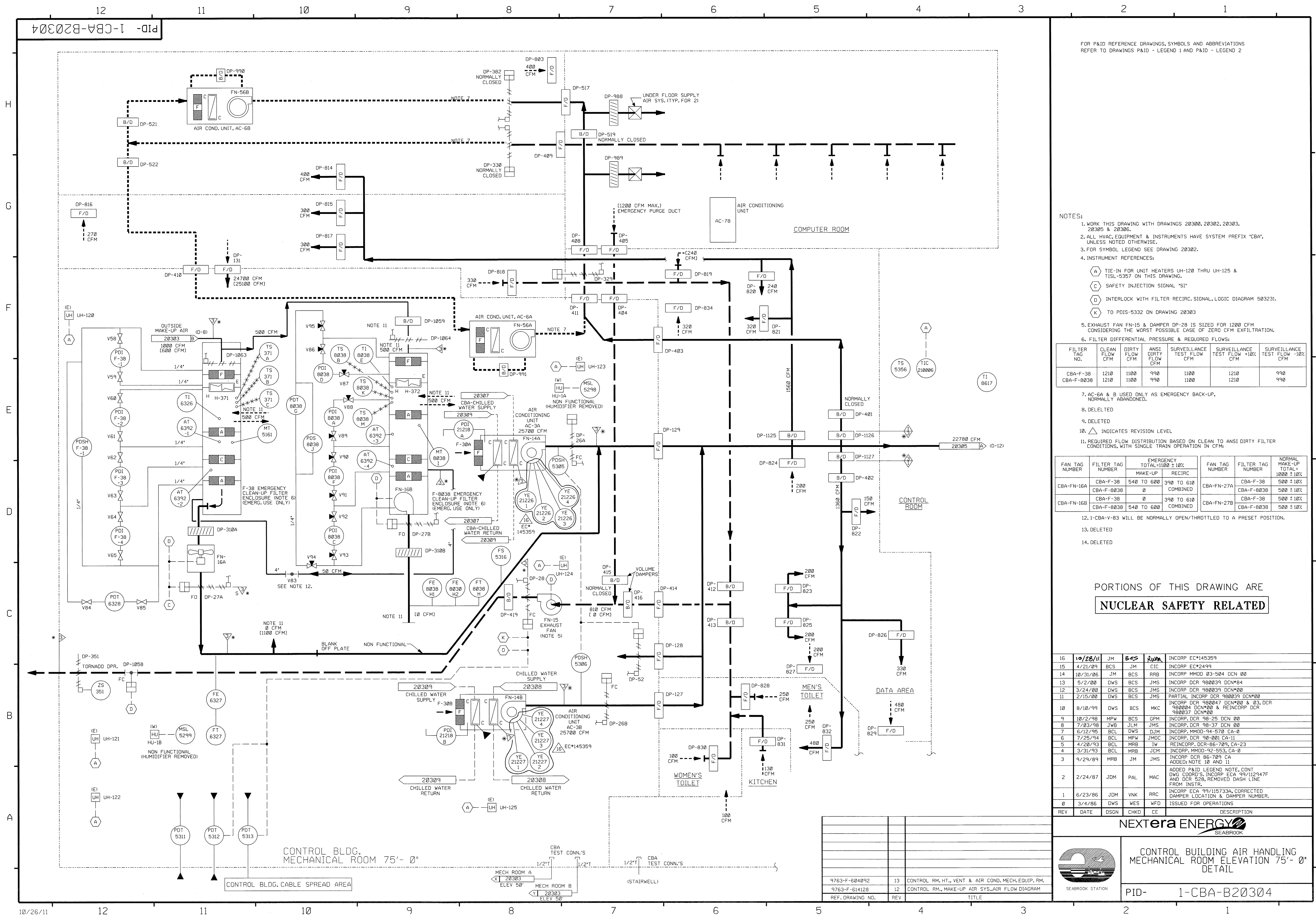


PID-1-CBA-B20304



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 20300, 20302, 20303, 20305 & 20306.
  2. ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX 'CBA', UNLESS NOTED OTHERWISE.
  3. FOR SYMBOL LEGEND SEE DRAWING 20302.
  4. INSTRUMENT REFERENCES:
    - (A) TIE-IN FOR UNIT HEATERS UH-120 THRU UH-125 & TISL-5357 ON THIS DRAWING.
    - (C) SAFETY INJECTION SIGNAL 'SI'
    - (D) INTERLOCK WITH FILTER RECIRC. SIGNAL, LOGIC DIAGRAM 503231.
    - (K) TO PDIS-5332 ON DRAWING 20303
  5. EXHAUST FAN FN-15 & DAMPER DP-28 IS SIZED FOR 1200 CFM CONSIDERING THE WORST POSSIBLE CASE OF ZERO CFM EXFILTRATION.
  6. FILTER DIFFERENTIAL PRESSURE & 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
CBA-F-38	1210	1100	990	1100	1210	990
CBA-F-8038	1210	1100	990	1100	1210	990

7. AC-6A & B USED ONLY AS EMERGENCY BACK-UP, NORMALLY ABANDONED.
8. DELETED
9. DELETED
10.  $\Delta$  INDICATES REVISION LEVEL
11. REQUIRED FLOW DISTRIBUTION BASED ON CLEAN TO ANSI DIRTY FILTER CONDITIONS, WITH SINGLE TRAIN OPERATION IN CFM:

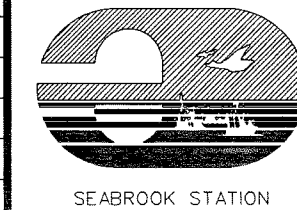
FAN TAG NUMBER	FILTER TAG NUMBER	EMERGENCY TOTAL-1100 $\pm$ 10% MAKE-UP	RECIRC	FAN TAG NUMBER	FILTER TAG NUMBER	NORMAL MAKE-UP TOTAL-1000 $\pm$ 10%
CBA-FN-16A	CBA-F-38	540 TO 600	390 TO 610 COMBINED	CBA-FN-27A	CBA-F-38	500 $\pm$ 10%
	CBA-F-8038	0			CBA-F-8038	500 $\pm$ 10%
CBA-FN-16B	CBA-F-38	0	390 TO 610 COMBINED	CBA-FN-27B	CBA-F-38	500 $\pm$ 10%
	CBA-F-8038	540 TO 600			CBA-F-8038	500 $\pm$ 10%

12. 1-CBA-V-83 WILL BE NORMALLY OPEN/THROTTLED TO A PRESET POSITION.
13. DELETED
14. DELETED

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

16	10/28/11	JM	ECSS	2444	INCORP EC*145359
15	4/21/09	BCS	JM	CIC	INCORP EC*2499
14	10/31/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00
13	5/2/00	DWS	BCS	JMS	INCORP DCR 980039 DCN*04
12	3/24/00	DWS	BCS	JMS	INCORP DCR 980039 DCN*00
11	2/15/00	DWS	BCS	JMS	PARTIAL INCORP DCR 980039 DCN*00
10	8/10/99	DWS	BCS	MKC	INCORP DCR 980047 DCN*00 & 03, DCR 980004 DCN*00
9	10/2/98	MPW	BCS	GPM	INCORP DCR 98-25 DCN 00
8	7/03/98	JWB	JLM	JMS	INCORP DCR 98-37 DCN 00
7	6/12/95	BCL	DJM	JMS	INCORP MMOD-94-570 CA-0
6	7/25/94	BCL	MPW	JMOC	INCORP DCR 98-001 CA-11
5	4/28/93	BCL	MRB	1W	REINCORP DCR-86-709, CA-23
4	3/31/93	BCL	MRB	JCM	INCORP MMOD-92-553, CA-0
3	9/29/89	MRB	JM	JMS	INCORP DCR 86-709 CA
2	2/24/87	JDM	PAL	MAC	ADDED NOTE 10 AND 11
1	6/23/86	JDM	VNK	RRC	ADDED P&ID LEGEND NOTE, CONT DWS COORD'S, INCORP ECA 99/112947F AND DCR 528, REMOVED DASH LINE FROM INST.
0	3/4/86	DWS	WES	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY  
SEABROOK

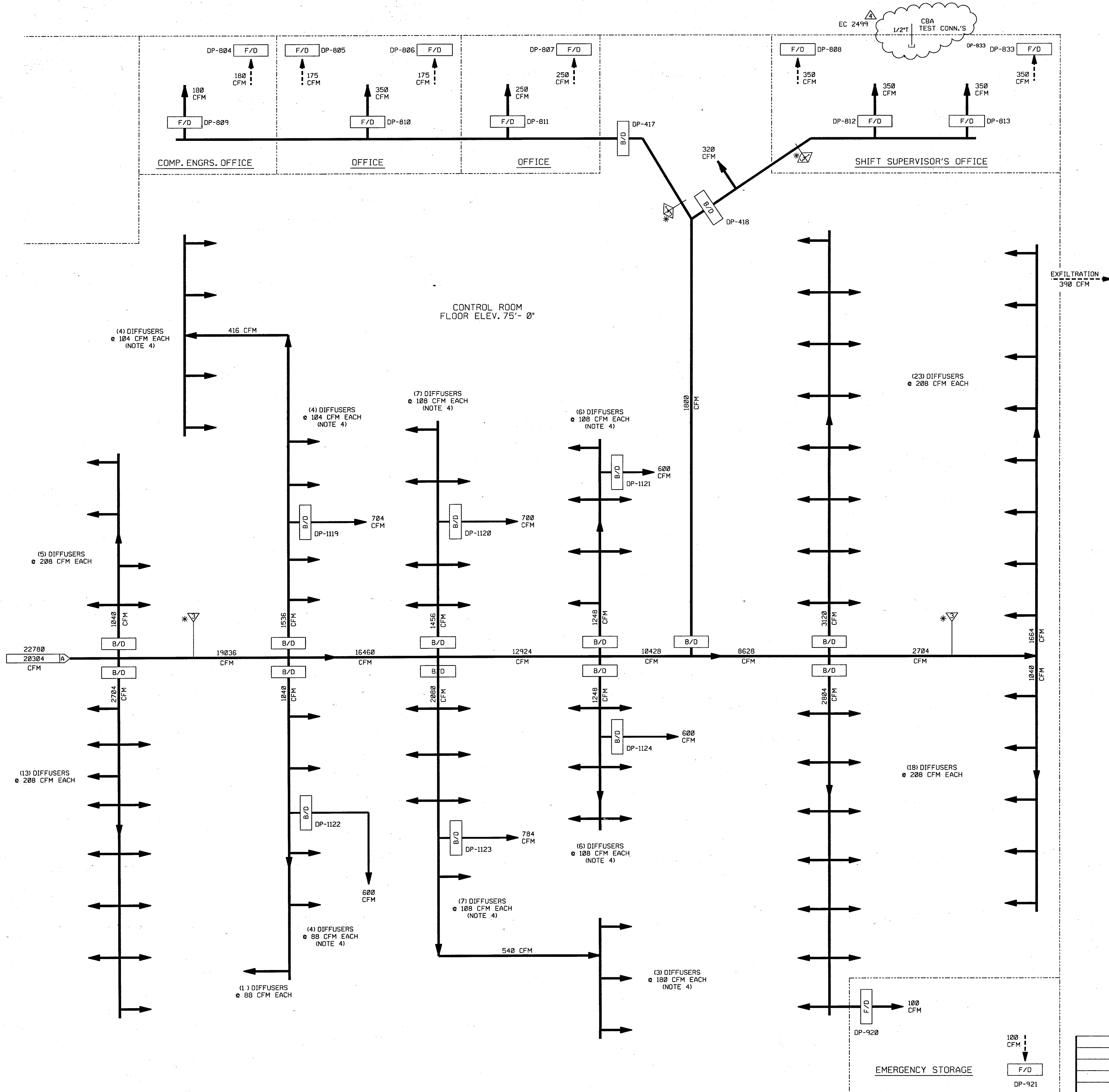


CONTROL BUILDING AIR HANDLING  
MECHANICAL ROOM ELEVATION 75'-0"  
DETAIL

PID-1-CBA-B20304

REF. DRAWING NO.	REV	TITLE
9763-F-604092	13	CONTROL RM., HT., VENT & AIR COND. MECH. EQUIP. RM.
9763-F-614128	12	CONTROL RM., MAKE-UP AIR SYS., AIR FLOW DIAGRAM

PID-1-CBA-B20305



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

4	4/21/09	BCS	JW	CL	INCRP EC * 2499
3	8/10/99	DWS	BCS	MKC	INCRP DCR 980204 DCN*00 & 03
2	6/12/95	BCL	DWS	DJM	INCRP MMOD 94-570 CA0
1	03/11/94	MRB	BCL	GRM	INCRP MMOD 92-553 CA01
0	03/04/86	DWS	WES	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY** Seabrook Station

**CONTROL BUILDING AIR HANDLING  
CONTROL ROOM  
DETAIL**

PID- 1-CBA-B20305

9763-F-604092	13	CONTROL RM. HT., VENT & AIR COND., MECH. EQUIP. RM.
9763-F-614128	11	CONTROL RM., MAKE-UP AIR SYS., AIR FLOW DIA.
REF. DRAWING NO.	REV	TITLE



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 20492, 20494 THRU 20496 & 20498 THRU 20508.
  2. ALL HVAC, EQUIP. COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX  
FAH (FUEL STORAGE BLDG. AIR HANDLING), UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DRAWING 20494.
  4. ALL DUCTWORK, UNLESS NOTED.
  5. FILTER HOUSING DIFFERENTIAL PRESS. & 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 |
|----------------|----------------|----------------|---------------------|----------------------------|---------------------------------|---------------------------------|
| FAH-F-41       | 17700          | 16000          | 15200               | 16450                      | 18095                           | 14805                           |
| FAH-F-74       | 17700          | 16000          | 15200               | 16450                      | 18095                           | 14805                           |
6. △ INDICATES REVISION LEVEL.

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

10	7/23/12	JM	ES	DM	INCORP EC-145215
9	2/4/00	BCS	MPW	CM	INCORP DCR 91-017 DCN-0
8	5/11/92	MRB	BCL	GPM	INCORP MMOD 91-622 CA0
7	8/16/91	GPM	JM	IW	INCORP. DCR 86-554 CA0
6	12/19/90	MRB	JM	IW	INCORP. DCR 87-373 CA0
5	4/11/90	HP	MRB	DJM	INCORP DCR 86-548 CA0
4	4/27/89	GPM	MRB	MAC	INCORP. DCR 86-555 CA 9
3	2/24/87	PAL	MPW	MAC	ADDED ECA 99/11514A, CONT. REF. DWGS. NOTE 6, PIPE TUNNEL AND CORRECTED DRAFTING ERRORS PER UESC P&ID INCORP. DCR-528.
2	12/23/86	JDM	PAL	RRC	ADDED P&ID LEGEND NOTE, CONT. REF. DWGS. INCORP. ECA 98/117840A
1	9/2/86	JDM	MAP	RRC	INCORP ECA 98/117840A
0	6/12/86	DWS	JDM	WFO	ISSUED FOR OPERATIONS INCORP. ECA 99/112947B
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

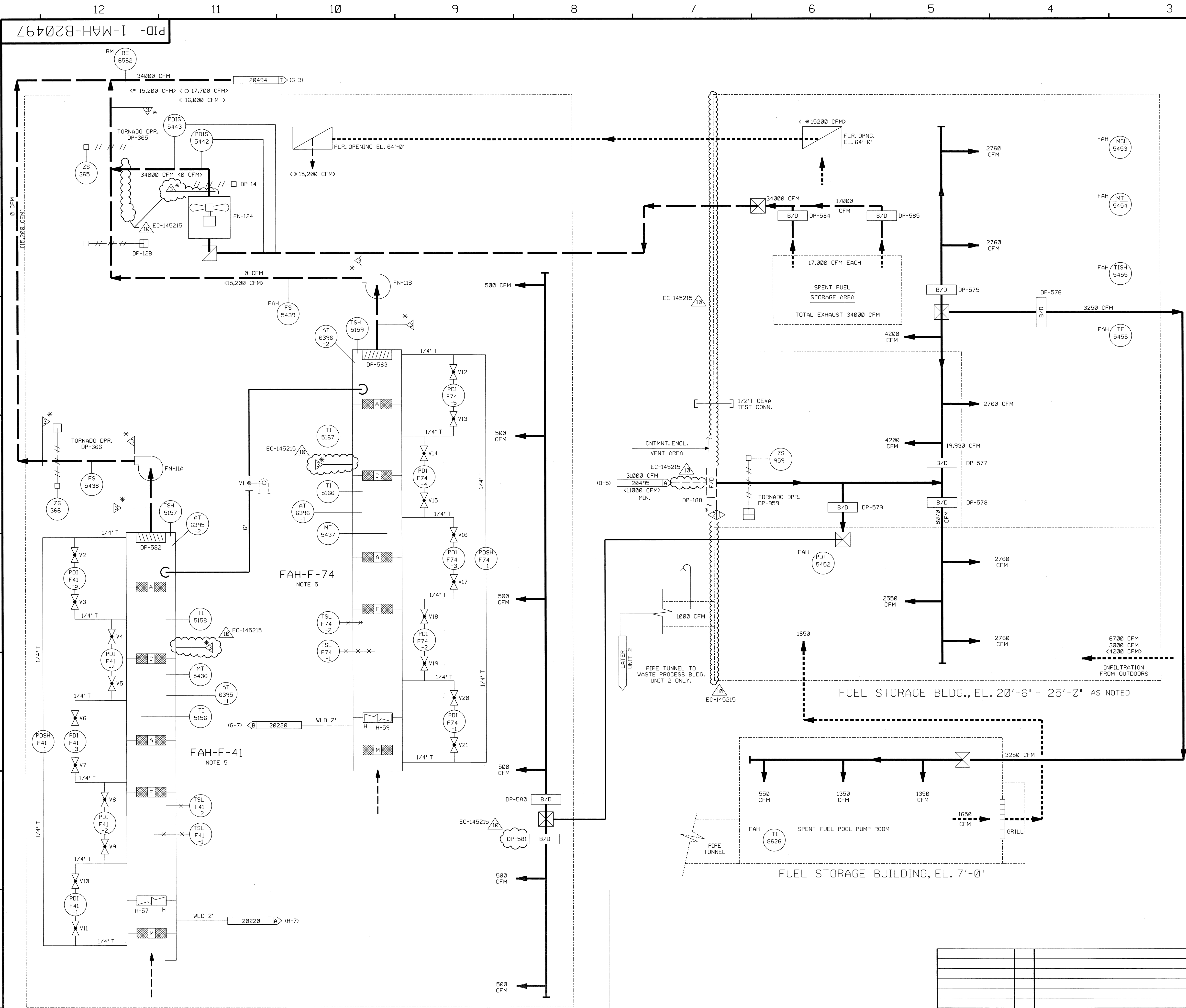
**NEXTERA ENERGY**  
SEABROOK



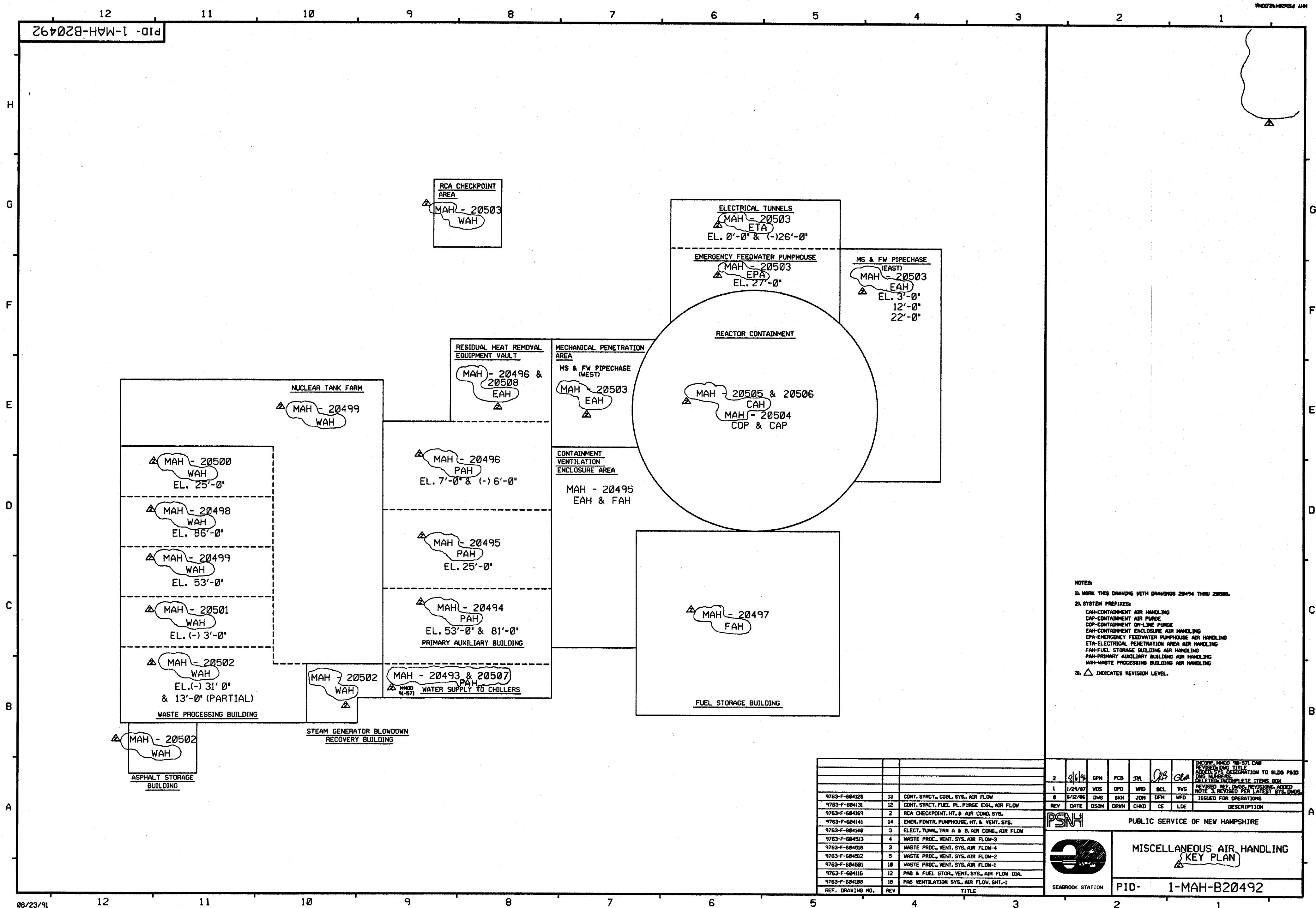
MISCELLANEOUS AIR HANDLING  
FUEL STORAGE BUILDING  
DETAIL

PID- 1-MAH-B20497


9763-F-604116	12	PAB & FUEL STOR. BLDG., VENTIL. SYS.
REF. DRAWING NO.	REV	TITLE

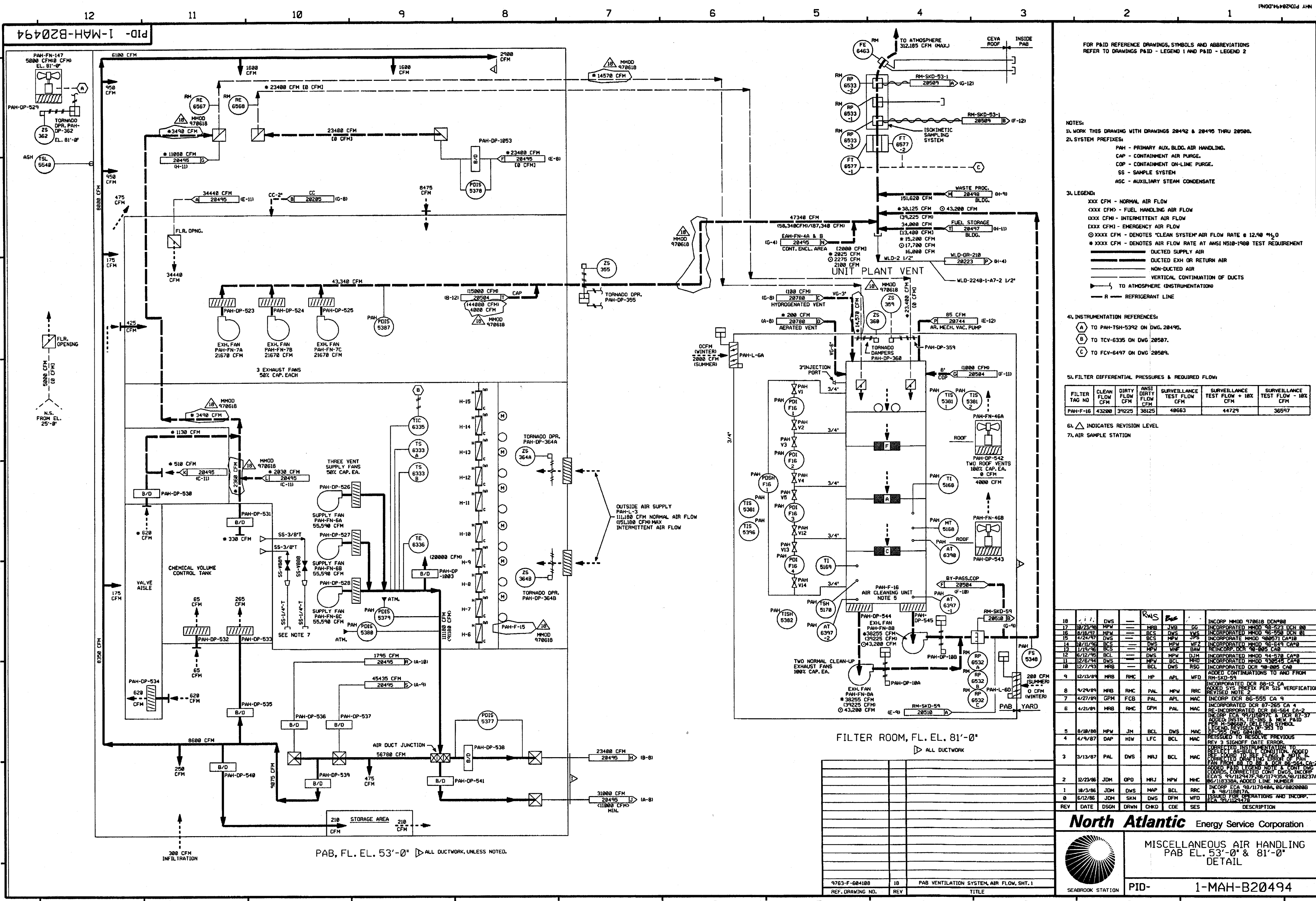






NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20494 THRU 20508.  
2. SYSTEM PREFIXES:  
CAH-CONTAINMENT AIR HANDLING  
CAP-CONTAINMENT AIR PURGE  
COP-CONTAINMENT ON-LINE PURGE  
EAH-CONTAINMENT ENCLOSURE AIR HANDLING  
EPA-EMERGENCY FEEDWATER PUMPHOUSE AIR HANDLING  
ETA-ELECTRICAL PENETRATION AREA AIR HANDLING  
FAH-FUEL STORAGE BUILDING AIR HANDLING  
PAH-PRIMARY AUXILIARY BUILDING AIR HANDLING  
WAH-WASTE PROCESSING BUILDING AIR HANDLING  
3. Δ INDICATES REVISION LEVEL.

								INCORP. MWO 94-571 CAB REVISED DWG TITLE ADDED SYS. DESIGNATION TO BLDG PABD DWC IN DISC. RELATION INCOMPLETE ITEMS BOX REVISED REF. DWGS. REVISIONS ADDED NOTE 3, REVISED PER LATEST SYS. DWGS. ISSUED FOR OPERATIONS	
2	9/6/94	DPH	FCB	JH	QZ	GLA			
1	1/24/87	WDS	OPD	WPD	BCL	VWS			
0	6/12/86	DWS	SKN	JDM	DFH	WFD			
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION		
PSNH								PUBLIC SERVICE OF NEW HAMPSHIRE	
								MISCELLANEOUS AIR HANDLING KEY PLAN A	
SEABROOK STATION								PID- 1-MAH-B20492	
REF. DRAWING NO.	REV	TITLE							
9763-F-604128	13	CONT. STRCT., COOL. SYS., AIR FLOW							
9763-F-604131	12	CONT. STRCT., FUEL PL. PURGE EXH. AIR FLOW							
9763-F-604169	2	RCA CHECKPOINT, HT. & AIR COND. SYS.							
9763-F-604141	14	EMER. FDWTR. PUMPHOUSE, HT. & VENT. SYS.							
9763-F-604148	3	ELECT. TUNNL. TRN A & B, AIR COND., AIR FLOW							
9763-F-604513	4	WASTE PROC., VENT. SYS., AIR FLOW-3							
9763-F-604518	3	WASTE PROC., VENT. SYS., AIR FLOW-4							
9763-F-604512	5	WASTE PROC., VENT. SYS., AIR FLOW-2							
9763-F-604501	10	WASTE PROC., VENT. SYS., AIR FLOW-1							
9763-F-604116	12	PAB & FUEL STOR., VENT. SYS., AIR FLOW DIA.							
9763-F-604108	10	PAB VENTILATION SYS., AIR FLOW, SHT.-1							



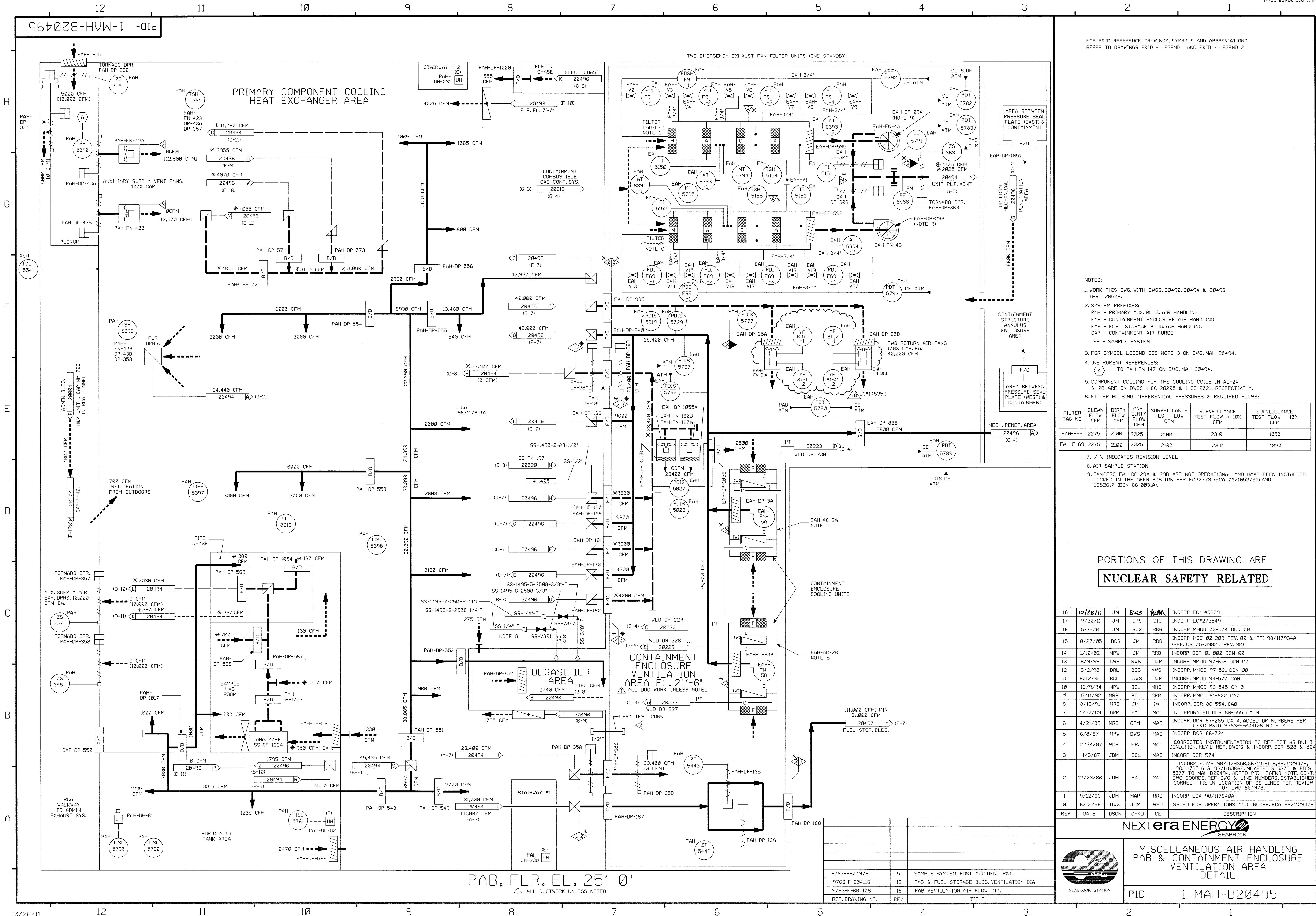
- FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20492 & 20495 THRU 20506.
2. SYSTEM PREFIXES:
- PAH - PRIMARY AUX. BLDG. AIR HANDLING.
  - CAP - CONTAINMENT AIR PURGE.
  - COP - CONTAINMENT ON-LINE PURGE.
  - SS - SAMPLE SYSTEM.
  - ASC - AUXILIARY STEAM CONDENSATE.
3. LEGEND:
- XXX CFM - NORMAL AIR FLOW
  - XXXX CFM - FUEL HANDLING AIR FLOW
  - XXXX CFM - INTERMITTENT AIR FLOW
  - XXXX CFM - EMERGENCY AIR FLOW
  - XXXX CFM - DENOTES "CLEAN SYSTEM" AIR FLOW RATE @ 12.98 %<sub>2</sub>O
  - XXXX CFM - DENOTES AIR FLOW RATE AT ANSI NS10-1980 TEST REQUIREMENT
  - DUCTED SUPPLY AIR
  - DUCTED EXH OR RETURN AIR
  - NON-DUCTED AIR
  - VERTICAL CONTINUATION OF DUCTS
  - TO ATMOSPHERE (INSTRUMENTATION)
  - R - REFRIGERANT LINE
4. INSTRUMENTATION REFERENCES:
- A TO PAH-TSH-5392 ON DWG. 20495.
  - B TO TCV-6335 ON DWG. 20507.
  - C TO FCV-6497 ON DWG. 20509.
5. FILTER DIFFERENTIAL PRESSURES & REQUIRED FLOW:
- | 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 |
|----------------|----------------|----------------|---------------------|----------------------------|----------------------------------|----------------------------------|
| PAH-F-16       | 43200          | 39225          | 38125               | 40653                      | 44729                            | 36597                            |
6. Δ INDICATES REVISION LEVEL
7. AIR SAMPLE STATION

18	11/23/98	DWS	MAC	DWS	MAC	INCORP MMOD 970618 DCM#8
17	8/18/97	MPW	MAC	DWS	MAC	INCORP MMOD 95-522 DCM#8
16	8/18/97	MPW	MAC	DWS	MAC	INCORP MMOD 95-520 DCM#1
15	4/24/97	DWS	MAC	DWS	MAC	INCORP MMOD 960571 CA#10
14	11/17/96	BCL	MAC	DWS	MAC	INCORP MMOD 96-544 CA#9
13	11/17/96	BCL	MAC	DWS	MAC	INCORP MMOD 96-545 CA#9
12	6/12/95	BCL	MAC	DWS	MAC	INCORP MMOD 94-570 CA#8
11	12/6/94	DWS	MAC	DWS	MAC	INCORP MMOD 930545 CA#6
10	12/7/93	MRS	MAC	DWS	MAC	INCORP MMOD 90-585 CA#5
9	12/13/89	MRS	MAC	DWS	MAC	ADDED CONTINUATIONS TO AND FROM RM-SKD-59
8	9/24/89	MRS	MAC	DWS	MAC	INCORP MMOD 88-12 CA
7	4/27/89	GPM	MAC	DWS	MAC	ADDED SYS PREFIX PER SIS VERIFICATION
6	4/21/89	MRS	MAC	DWS	MAC	INCORP DCR 86-555 CA 9
5	8/18/88	MPW	MAC	DWS	MAC	INCORP DCR 87-265 CA 4
4	4/9/87	DAP	MAC	DWS	MAC	RE-INCORP DCR 86-564 CA-2
3	3/13/87	PAL	MAC	DWS	MAC	ADDED INSIS, TSH-105 & NEW PAID
2	12/23/86	JDM	MAC	DWS	MAC	ADDED INSIS, TSH-105 & NEW PAID
1	10/3/86	JDM	MAC	DWS	MAC	ADDED INSIS, TSH-105 & NEW PAID
0	6/12/86	JDM	MAC	DWS	MAC	ADDED INSIS, TSH-105 & NEW PAID
REV	DATE	DSGN	DRWN	CHKD	SES	DESCRIPTION

MISCELLANEOUS AIR HANDLING  
PAB EL. 53'-0" & 81'-0"  
DETAIL

PID-1-MAH-B20494

9763-F-084108	18	PAB VENTILATION SYSTEM, AIR FLOW, SHT. 1
REF. DRAWING NO.	REV	TITLE



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

- NOTES:
1. WORK THIS DWG. WITH DWGS. 20492, 20494 & 20496 THRU 20508.
  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 20494.
  4. INSTRUMENT REFERENCES:  
TO PAH-FN-147 ON DWG. MAH 20494.
  5. COMPONENT COOLING FOR THE COOLING COILS IN AC-2A & 2B ARE ON DWGS 1-CC-20205 & 1-CC-20211 RESPECTIVELY.
  6. FILTER 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	1890
EAH-F-69	2275	2100	2025	2100	2310	1890

7.  $\Delta$  INDICATES REVISION LEVEL
8. AIR SAMPLE STATION
9. DAMPERS EAH-DP-29A & 29B ARE NOT OPERATIONAL AND HAVE BEEN INSTALLED LOCKED IN THE OPEN POSITION PER EC32773 (ECA 06/105376A) AND EC82617 (DCN 66-0031A).

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

18	10/28/11	JM	BS	RM	INCORP EC*145359
17	9/30/11	JM	GPS	CIC	INCORP EC*273549
16	5-7-08	JM	BCS	RRB	INCORP MM00 03-504 DCN 00
15	10/27/05	BCS	JM	RRB	INCORP MSE 02-209 REV. 00 & RFI 98/117934A (REF. CR 05-09825 REV. 00)
14	1/10/02	MPW	JM	RRB	INCORP DCR 01-002 DCN 00
13	6/9/99	DWS	RWS	DJM	INCORP MM00 97-618 DCN 00
12	6/2/98	DRL	BCS	VWS	INCORP. MM00 97-521 DCN 00
11	6/12/95	BCL	DWS	DJM	INCORP. MM00 94-570 CA 0
10	12/9/94	MPW	BCL	MHO	INCORP. MM00 93-545 CA 0
9	5/11/92	MRB	BCL	GPM	INCORP. MM00 91-622 CA 0
8	8/16/91	MRB	JM	IW	INCORP. DCR 86-554, CA 0
7	4/21/89	GPM	PAL	MAC	INCORPORATED DCR 86-555 CA 9
6	4/21/89	MRB	GPM	MAC	INCORP. DCR 87-265 CA 4. ADDED DP NUMBERS PER US&C P&ID 9763-F-604108 NOTE 7
5	6/8/87	MPW	DWS	MAC	INCORP DCR 86-724
4	2/24/87	WDS	MRJ	MAC	CORRECTED INSTRUMENTATION TO REFLECT AS-BUILT CONDITION. REV'D REF. DWG'S & INCORP. DCR 828 & 564
3	1/3/87	JDM	BCL	MAC	INCORP DCR 574
2	12/23/86	JDM	PAL	MAC	INCORP. ECA'S 98/117935B, 06/115615B, 99/112947F, 98/117851A & 98/118306F. MOVED PDIS 5378 & PDIS 5377 TO MAH-B20494. ADDED PID LEGEND NOTE, CONT. DWG COORDS, REF. DWG. & LINE NUMBERS. ESTABLISHED CORRECT TIE-IN LOCATION OF SS LINES PER REVIEW OF DWG 884978.
1	9/12/86	JDM	MAP	RRR	INCORP ECA 98/117840A
0	6/12/86	DWS	JDM	WFO	ISSUED FOR OPERATIONS AND INCORP. ECA 99/112947B
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK STATION

MISCELLANEOUS AIR HANDLING  
PAB & CONTAINMENT ENCLOSURE  
VENTILATION AREA  
DETAIL

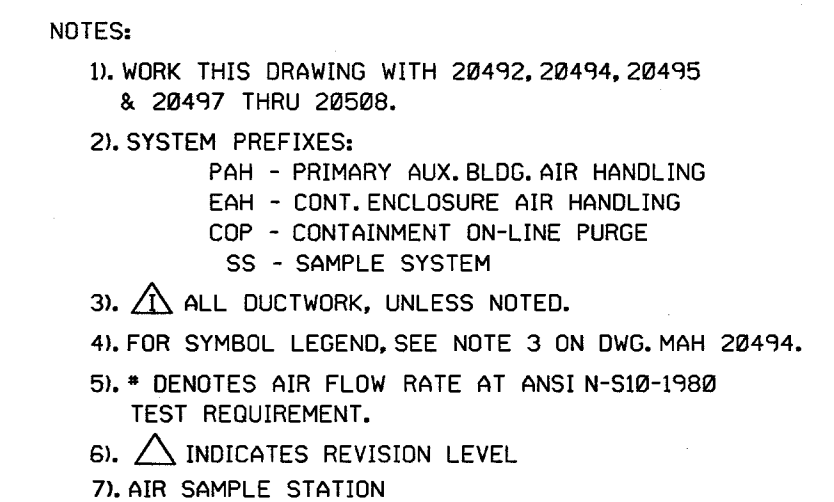
PID- 1-MAH-B20495

PAB, FLR. EL. 25'-0"

REF. DRAWING NO.	REV	TITLE
9763-F-804978	5	SAMPLE SYSTEM POST ACCIDENT P&ID
9763-F-604116	12	PAB & FUEL STORAGE BLDG. VENTILATION DIA
9763-F-604108	18	PAB VENTILATION, AIR FLOW DIA.



RHR & CS  
EQUIPMENT  
VAULT



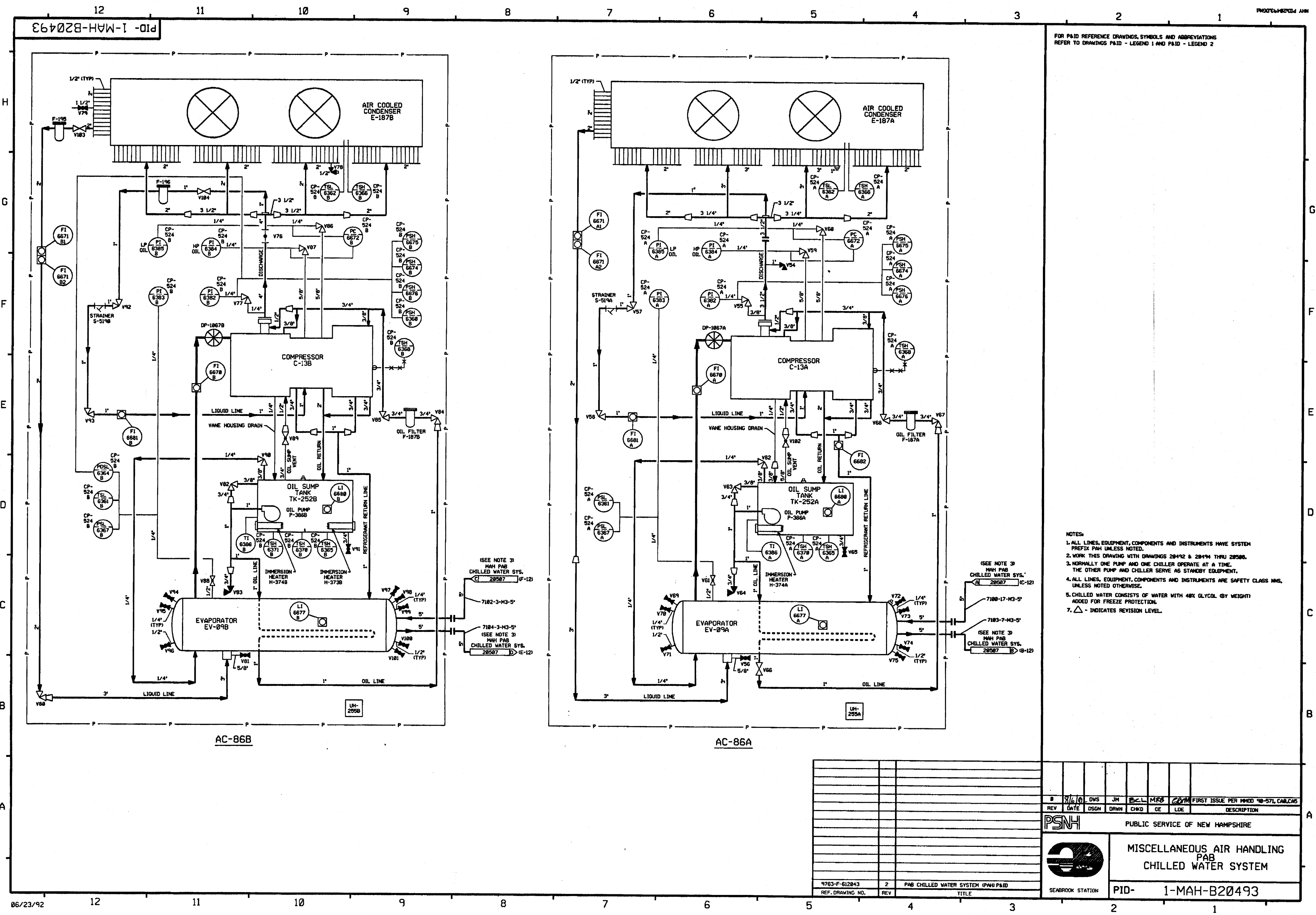
12	5-7-07	JM	BSS	PR	INCPNR MMOD 03-554 DCN#00
11	9/8/03	BGS	JM	JC	INCPNR MMOD 02-552 DCN#00
10	6/19/98	DWS	RWS	DJM	INCPNR MMOD 970618 DCN#00
9	6/12/95	BCL	DWS	DJM	INCPNR MMOD 94-570 A#0
8	12/9/94	DWS	BCL	MHD	INCPNR MMOD 930545 CA#0
7	8/16/91	MRB	JM	IW	INCPNR DCR 86-554, CA0
6	2/5/90	MRB	APL	IW	INCPNR DCR 86-572 CA 02
5	4/21/89	MRB	GP	MAC	INCPNR DCR 87-265 CA 4 REVISED NOTES ADDED NOTE 6 AND P&ID LEGEND NOTE
4	6/8/87	MPW	DWS	MAC	INCPNR DCR 86-724 ADDED TS-5776 PER SIS LIST. REVISED EAH-OP-747 TO EAH-OP-757 PER EQUIPMENT LIST
3	4/24/87	WDS	PAL	MAC	INCPNR DCR 528 ADDED CONT REF COORDS, INCPNR. ECA 06/11/930A, REMOVED 8" COP LINES FROM THIS DWG. THESE LINES ARE DETAILED ON DWG MAH-20504.
2	12/28/86	JDM	PAL	RRC	ADDED LINE NO. & ISOMETRIC NO TO WLG LINE. ADDED RESOLVED DRAWING. RESOLVED CHANGE ITEM NO 1 PER REVIEW OF US&C DWG 064959
1	10/17/86	JDM	MPW	RRC	INCPNR ECA 06-11/930A
0	06/12/86	DWS	JDM	WF	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CD	DESCRIPTION

Seabrook Station



PID- 1-MAH-B20496

9763-F-804959	4	FLOOR & EQUIP DRAIN SYSTEM PAB P&ID SHT 2
9763-F-604116	12	PAB & FUEL STOR. VENT. SYS., AIR FLOW DIAGRA
REF. DRAWING NO.	REV	TITLE



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

NOTES:

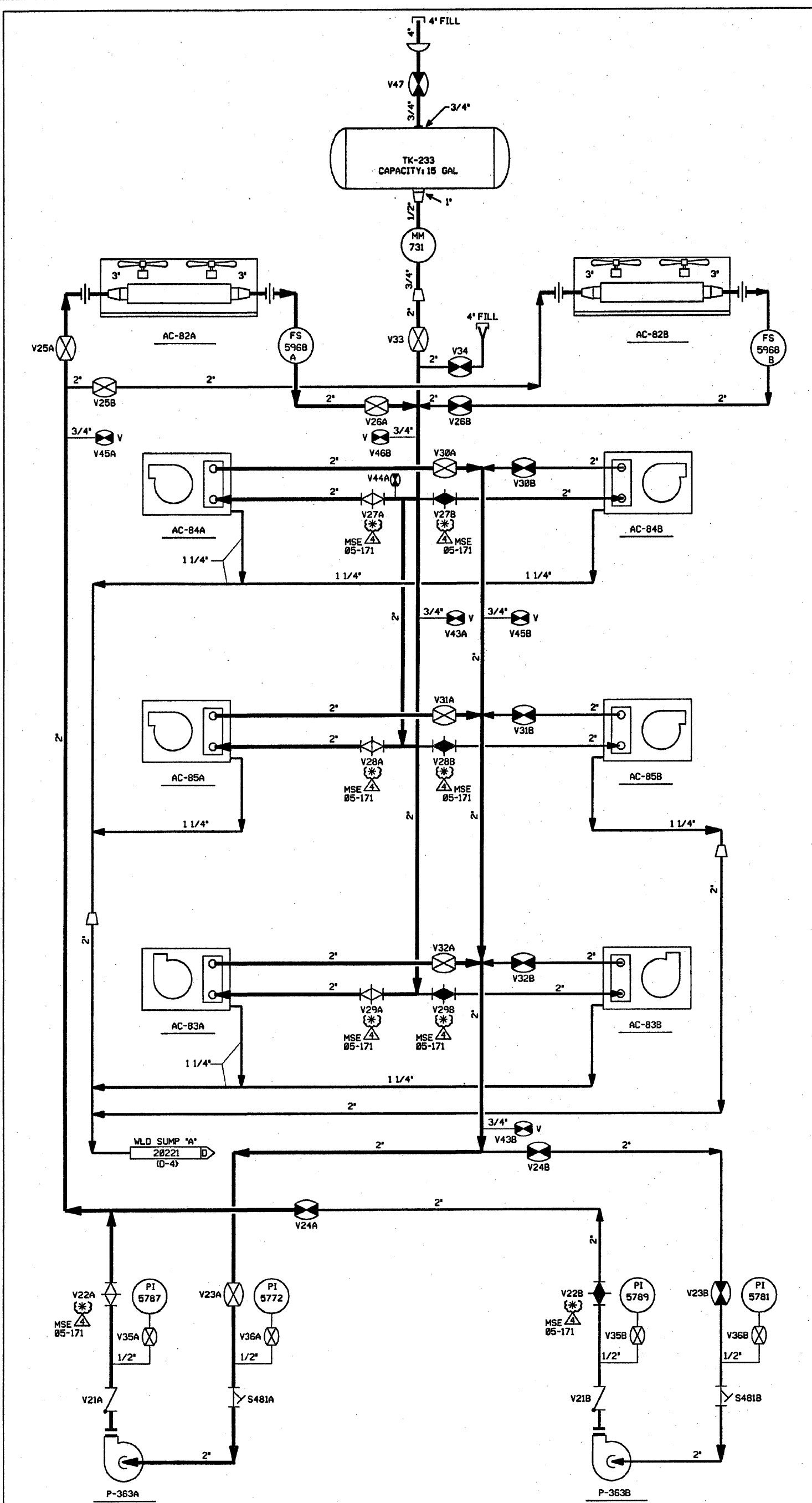
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM REFERENCE TAGS UNLESS NOTED.
2. WORK THIS DRAWING WITH DRAWINGS 28492, 28493 AND 28494 THROUGH 28498 AND 28499.
3. NORMALLY ONE PUMP AND ONE CHILLER OPERATE AT A TIME. THE OTHER PUMP AND CHILLER SERVE AS STANDBY EQUIPMENT.
4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
5. CHILLED WATER CONSISTS OF WATER WITH 40% GLYCOL (BY WEIGHT) ADDED FOR FREEZE PROTECTION.
6. VALVES NORMALLY CLOSED, USED FOR SUMMER OPERATION ONLY.
7.  $\Delta$  - INDICATES REVISION LEVEL.

5	7/14/80	BCS		DWS	JWP	RRC	INCORP. MMOD 99-573 DCN-00 INCORP. MMOD 98-571, CAC REVISED NOTE 4 PER NHY ENG DESIGN STD 31708 SEC 3.8 CLARIFIED LINE SIZE ON S-001 VALUES V42 & V43 SHOWN CLOSED. WALKER V44 & V45 SHOWN OPEN. INCORP. ECA 99/115077C APPROVED CHANGE ITEM 1 PER FIELD COMPLETION OF ILL PANT-304 UPDATE IMPULSE DESCRIPTION TO EIT 625B & TCV 625A, ADDED NIPPLE CAL ON VLVS V26 & V28 PER EJECTION ISSUES, ADDED PAID LEAK NOTE. REVISED REPAIR REQUESTED FOR CHILLER ARRANGEMENT PER CHANGE ITEM 0 , CORRECTED DRAFTING ERRORS.
3	8/6/92	MHB	FCB	JM	BCL	GRM	
3	6/8/87	JDM	TAK	DWS	BCL	MAC	
2	3/6/87	WDS	TAK	NRJ	BCL	RRC	
1	9/12/86	JDM	DWS	MHP	BCL	RRC	INCORP. ECA 99/117521A & ECA 99/117522D ISSUED FOR OPERATIONS AND INCORP. ECSA 86/111611A & ECA 86/112242A
6	6/13/86	WES	WEN	JDM	DFM	SFS	
REV	DATE	DESIGN	DRWN	CHECK	CDE	WED	DESCRIPTION

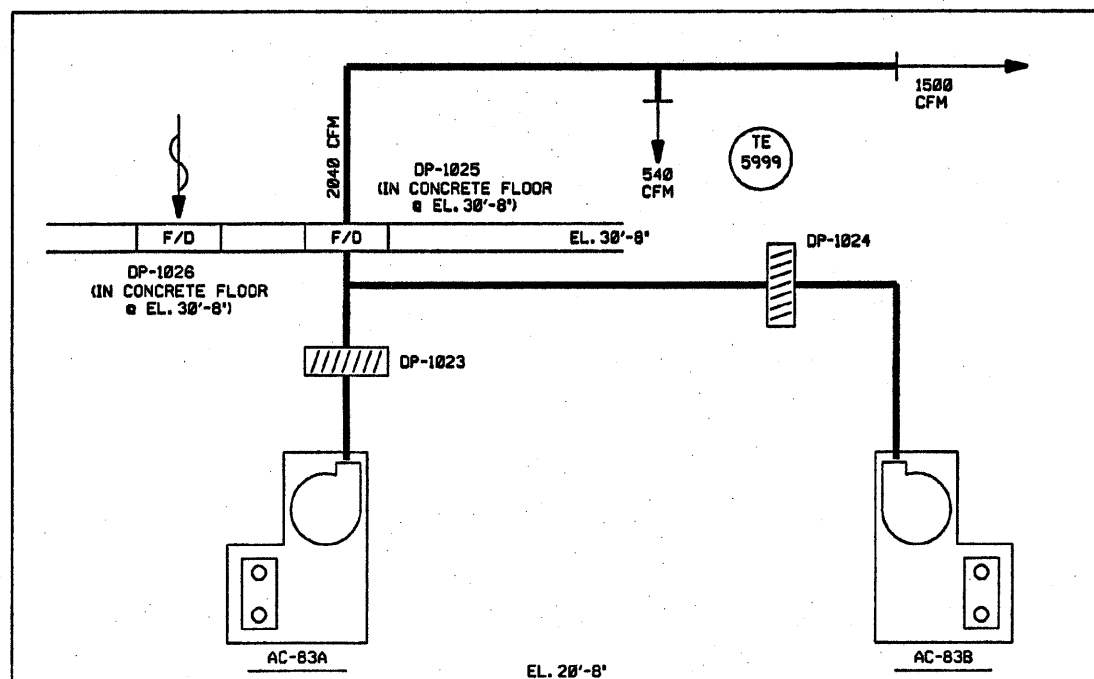
PID- 1-MAH-B20507

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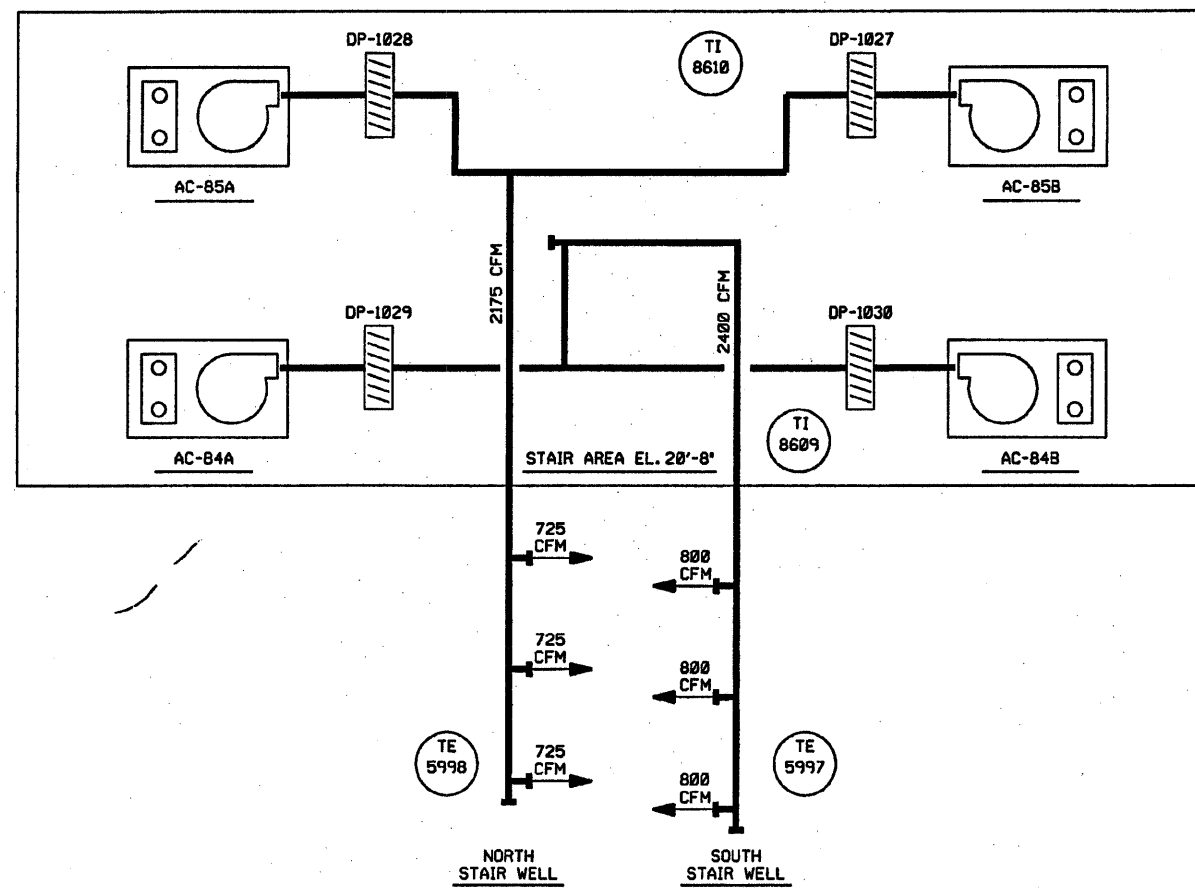




GLYCOL FLOW DIAGRAM



ELECTRICAL AREA



AIR FLOW DIAGRAM

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 20507.
  2. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SYSTEM PREFIX "EAM" UNLESS OTHERWISE NOTED.
  3. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
  4.  $\Delta$  - INDICATES REVISION LEVEL.
  5. \* THESE VALVES ARE SUBJECT TO A PART SUBSTITUTION AUTHORIZED BY 05MSE171. VALVE SYMBOL MAY NOT REFLECT INSTALLED VALVE TYPE. DRAWING UPDATES WILL BE MADE UPON RECEIPT OF FORM WH 54F.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
4	2-5-08	JM	QPS	REB	INCORP MSE 05-171 REV. 00
3	1/22/91	MRB	JM	DJM	INCORP. ECA 06/117754A REVISED NOTE 3
2	3/16/87	DPO	MRJ	BCL	ADDED 1500 CFM DESIGNATION
1	2/24/87	WDS	PAL	BCL	ADDED NOTE 4, REVISED REF DWG REVISION, INCORP DCR 520.
0	6/12/86	JDM	DWS	DFM	ISSUED FOR OPERATIONS

**FPL ENERGY** Seabrook Station

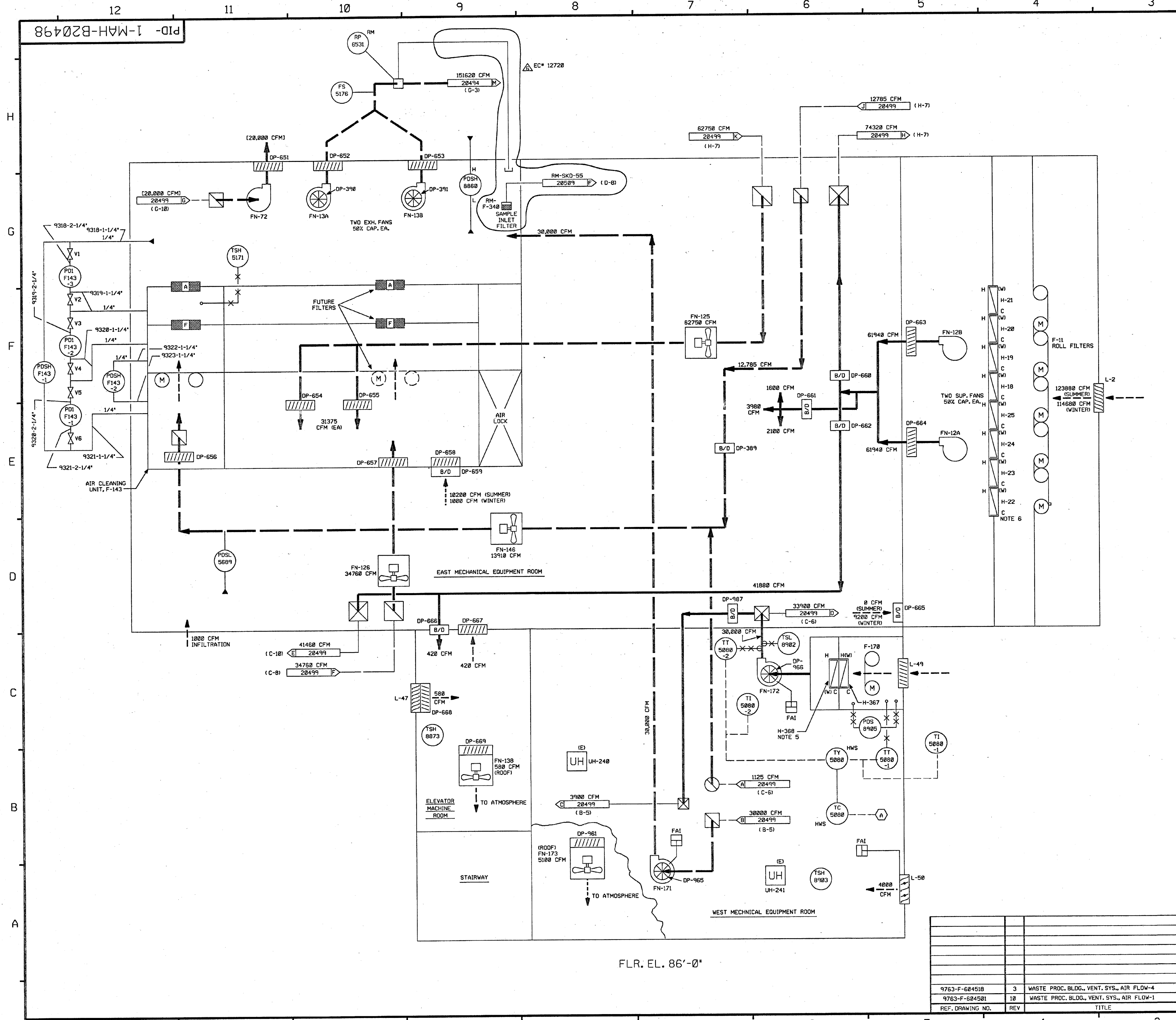
GLYCOL, AIR FLOW DIAGRAM  
AC SYSTEM  
ELECTRICAL VAULT & STAIRS

PID- 1-MAH-B20508

REF. DRAWING NO.	REV	TITLE
9763-F-612041	3	GLYCOL, AIR FLOW DIAG. AC SYST. ELECT. VAULT & STAIRS

PID-1-MAH-B20498

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 20492, 20494 THRU 20497 & 20499 THRU 20508.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WAH (WASTE PROCESSING BLDG. AIR HANDLING), UNLESS NOTED.
  - 3) FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. B20494.
  - 4) INSTRUMENT REFERENCE  
(A) TO HWS-TCV-5088 ON DWG. HW-20050
  - 5) H-367 IS LOCATED ABOVE H-368 IN PLENUM FOR HEATER PIPING SEE DRAWING 1-HW-20050.
  - 6) H-18 THRU H-25 HEATER PIPING SEE DRAWING 1-HW-20050.
  - 7) ALL DUCTWORK, UNLESS NOTED.
  - 8) FILTER 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 |
|----------------|----------------|----------------|---------------------|----------------------------|---------------------------------|---------------------------------|
| WAH-F-143      | 15200          | 14000          | 13300               | 14200                      | 15620                           | 12710                           |
- 9)  $\Delta$  INDICATES REVISION LEVEL.  
10) UNLESS SPECIFIED ALL LINE NUMBERS ARE SPEC 236-11.

6	5/15/09	JM	BS	DDM	INCORPORATED EC* 12720
5	8/2/88	MPW	BCL	MAC	REVISED INSTR. TIE-INS AND ADDED NEW P&ID PER M-506885
4	4/9/87	DAP	LFC	MAC	REISSUED TO SOLVE PREVIOUS REV 3 SIGNOFF DATE ERROR.
3	3/13/87	MRJ	DWS	RRC	REVISED INSTR. SIGNAL SYMBOL AND TEE-IN LOC. CORRECTED DRAFTING ERRORS. REVISED NOTES 4 & 7, ADDED NOTE 9 & 10, INCORP. OCR 86-686.
2	12/23/86	JDM	PAL	RRC	CORRECTED FAN I.D. NUMBER, ADDED P&ID LEGEND NOTE, ADDED CONTINUATION DWG COORDINATES, INCORP. ECA 99/112947F & ECA 118206A.
1	9/2/86	MAP	JDM	RRC	INCORPORATED ECA 99/117635A
0	08/08/86	JDM	DWS	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

Seabrook Station  
**MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL**

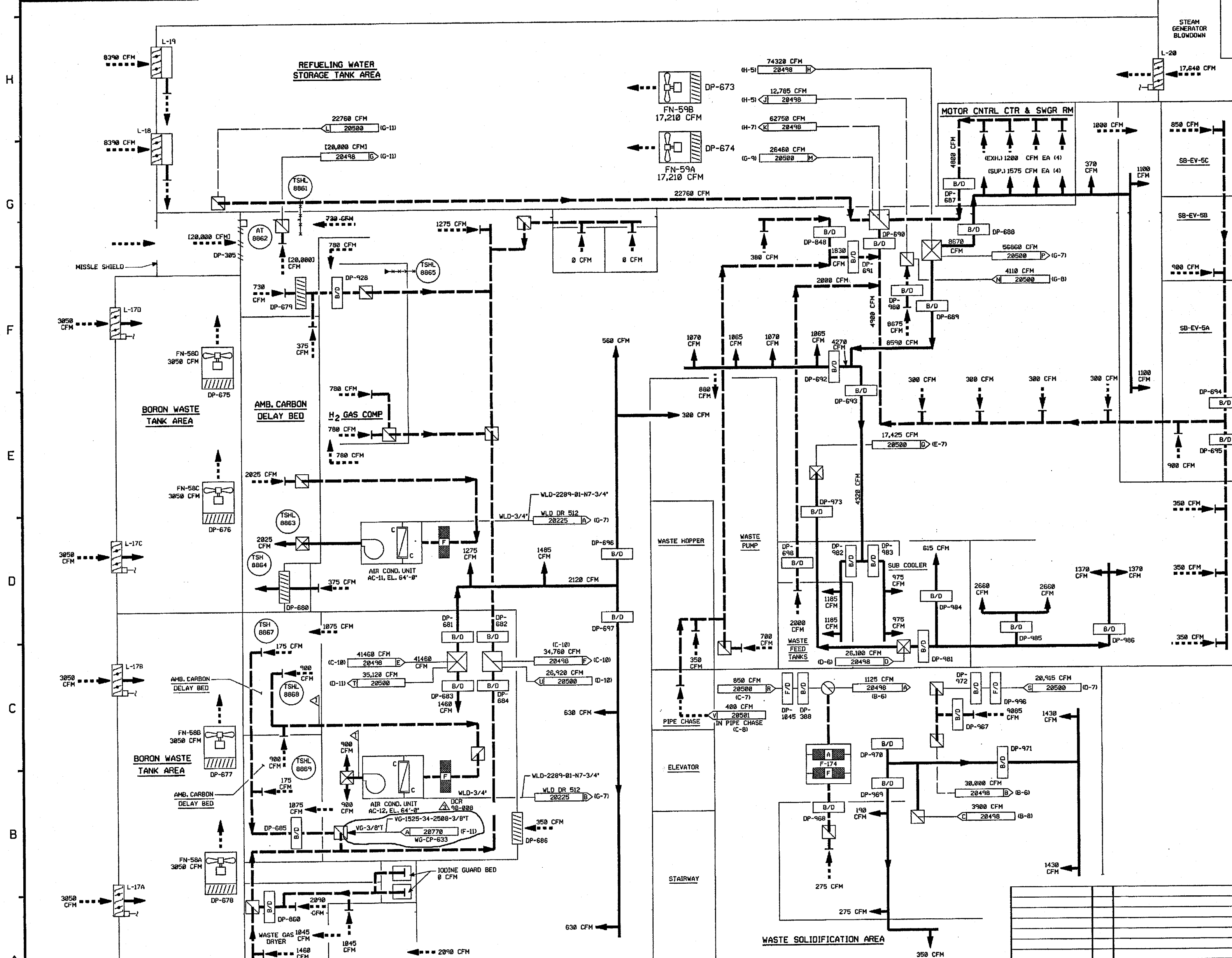
**PID-1-MAH-B20498**

REF. DRAWING NO.	REV	TITLE
9763-F-684518	3	WASTE PROC. BLDG., VENT. SYS., AIR FLOW-4
9763-F-684501	10	WASTE PROC. BLDG., VENT. SYS., AIR FLOW-1

FLR. EL. 86'-0"

660499-1-MAH-B20499

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



W.P.B. FLR. EL. 53'-0"

- NOTES:
1. WORK THIS DWG WITH DWGS 20492, 20494 THRU 20498 & 20500 THRU 20508.
  2. ALL HVAC EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WHP (WASTE PROCESSING BLDG. AIR HANDLING) UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG 20494.
  4.  $\nabla$  ALL DUCTWORK UNLESS NOTED
  5.  $\Delta$  INDICATES REVISION LEVEL

3	8/25/98	MPW	TAK	LFC	BCL	MAC	INCORP. DCR '98-008 DCH 00
2	4/9/97	DAP	TAK	LFC	BCL	MAC	REVISED REV. 1 SIGNOFF DATE ERROR
1	3/12/97	WDS	MPW	MRJ	BCL	MAC	INCORP. DCR 86-686 ADDED PAID LEGEND NOTE, NOTE 5, DWG. CONT. COORDINATES, REVISED REF. DWG. REV. LEVELS, PER LATEST UEMC PAID. DELETED "S" FROM DWG. NO. IN NOTE 18.3.
0	8/12/86	DWS	WES	JDM	DFM	WFD	ISSUED FOR OPERATIONS & INCORP. ECS'S 06/882481A & 14/113829A
REV	DATE	DSGN	DRWN	CHKD	CODE	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

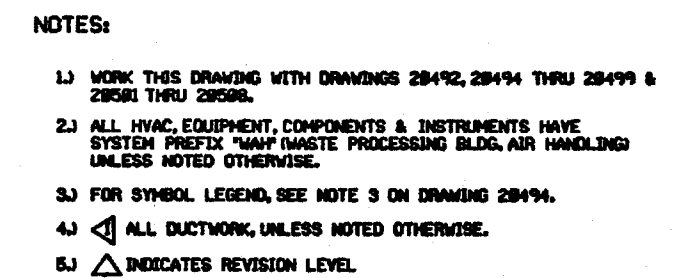


MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20499

9763-F-604503	8	WASTE PROC BLDG VENTIL. SYS AIR EL. 53'0"
9763-F-604518	3	WASTE PROCESS BLDG VENTIL. SYS AIR SH. 4
9763-F-604501	10	WASTE PROCESS BLDG VENTIL. SYS AIR SH. 1
REF. DRAWING NO.	REV	TITLE



[illegible]

PSNH PUBLIC SERVICE OF NEW HAMPSHIRE



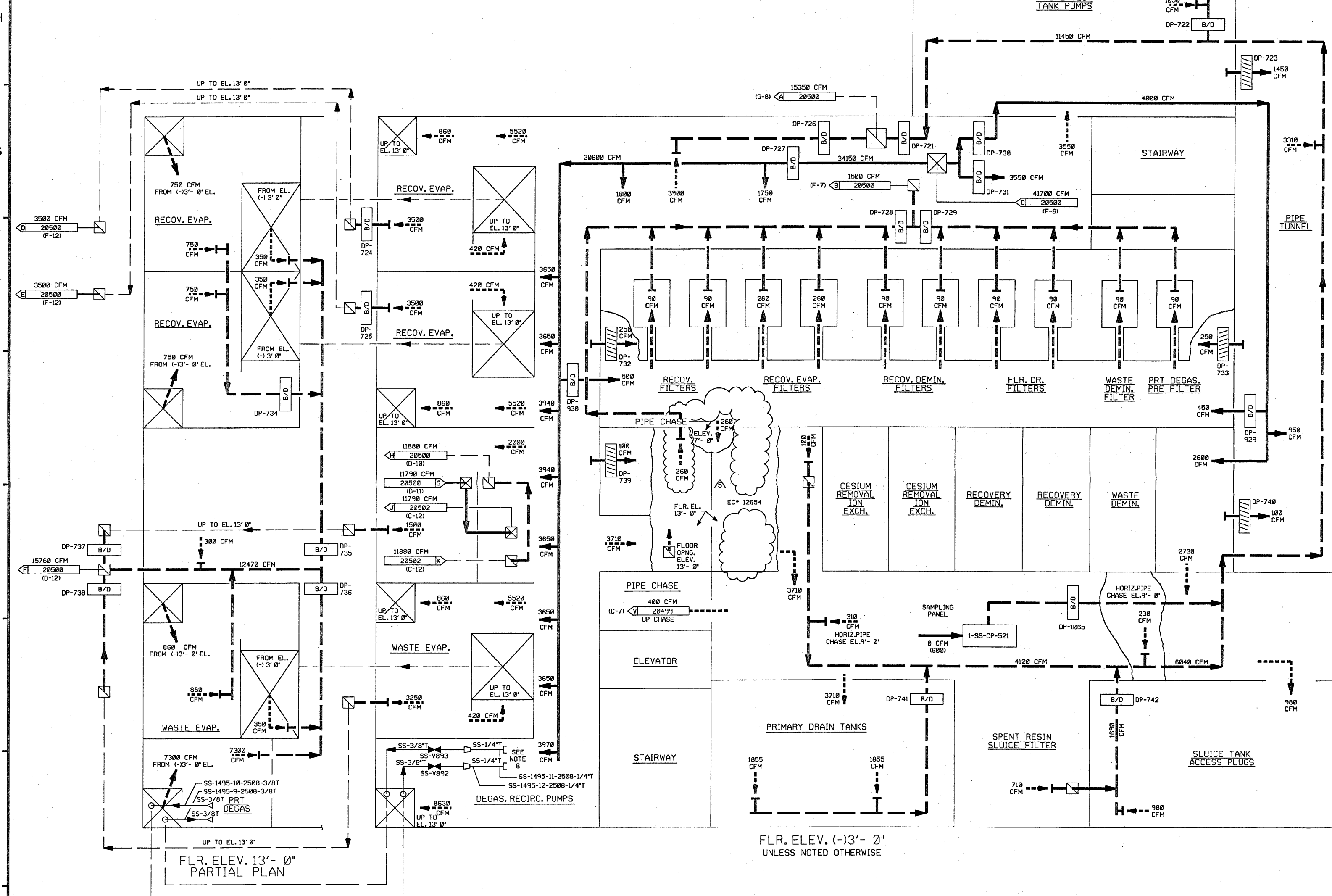
MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20500

9763-F-684594	9	WASTE PROC. BLDG VENTIL. SYS., EL. 25'W
9763-F-686988	2	WASH-WASTE SOLID AREA CONTROL ROOM CONTR. LOG
9763-F-684518	3	WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-4
9763-F-684512	5	WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-2
REF. DRAWING NO.	REV	TITLE

10500-B20501-1-MAH-B20501

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

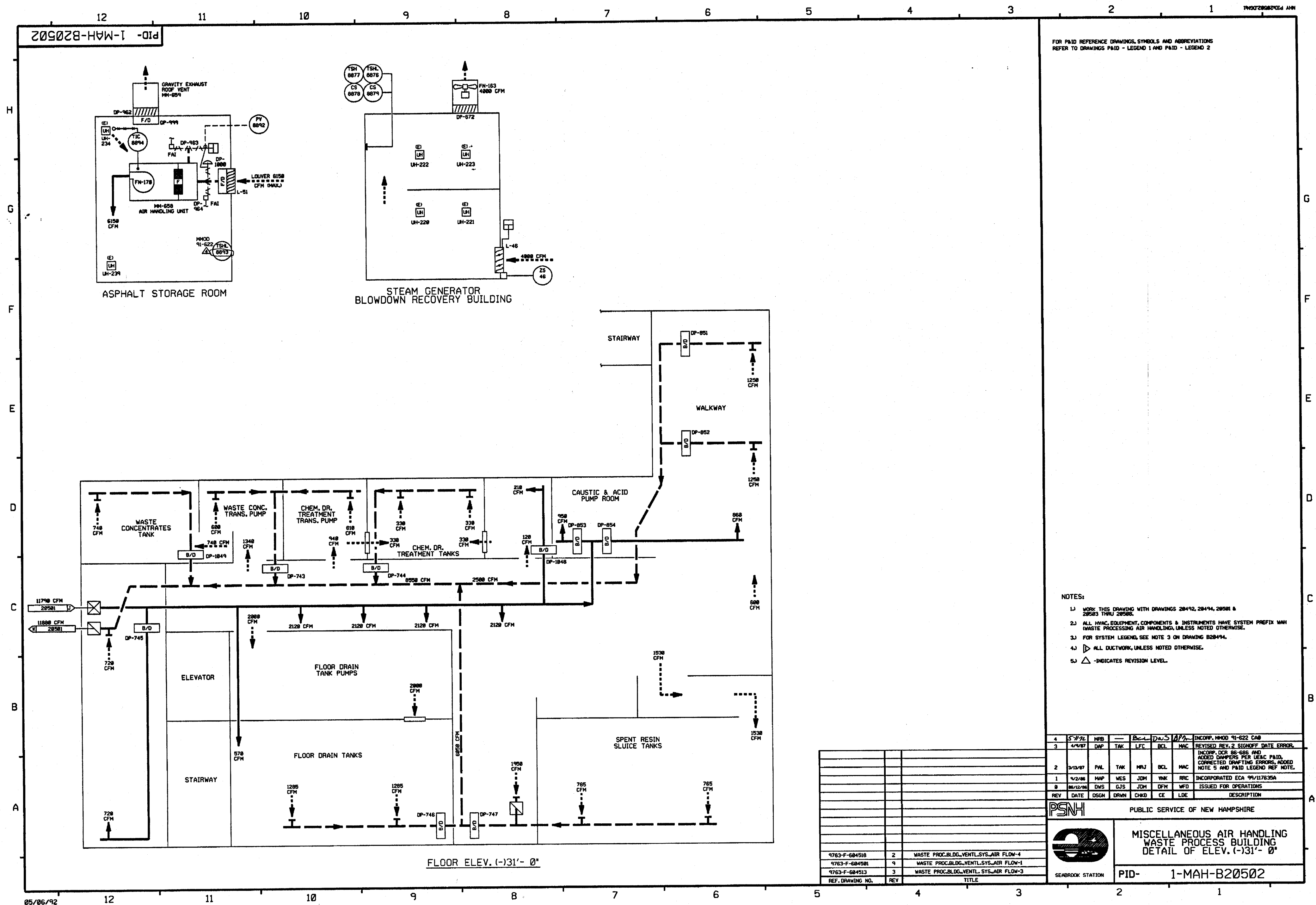


NOTES:

- 1.) WORK THIS DRAWING WITH DRAWINGS 20492, 20494 THRU 20500 & 20502 THRU 20508.
- 2.) ALL HVAC EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "MAH" (WASTE PROCESSING BUILDING AIR HANDLING), UNLESS NOTED OTHERWISE.
- 3.) FOR SYMBOL LEGEND SEE NOTE 3 ON DRAWING B20494.
- 4.) ALL DUCTWORK, UNLESS NOTED OTHERWISE.
- 5.) INDICATES REVISION LEVEL.
- 6.) AIR SAMPLE STATION.



5	6/11/09	BCS	JM	01	INCRP. EC* 12654
4	5/26/09	MRB	PAL	1W	INCORPORATED DCR 87-110 CA 11
3	4/2/09	MRB	GPM	MAC	INCORPORATED DCR 87-265 CA 4
2	4/9/07	DAP	LFC	MAC	REVISED REV. 1 SIGNOFF DATE ERROR
1	3-13-87	MRJ	DPD	MAC	ADDED CONTINUATION FLAG COORDS AND NOTES, REVISED AIR FLOW PER U&C, INCRP. DCR 86-688
0	6/12/86	DWS	JDM	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

		<b>MISCELLANEOUS AIR HANDLING WASTE PROCESSING BUILDING DETAIL</b>	
		<b>PID- 1-MAH-B20501</b>	



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 28492, 28494, 28501 & 28503 THRU 28508.
2. ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WAA (WASTE PROCESSING AIR HANDLING), UNLESS NOTED OTHERWISE.
3. FOR SYSTEM LEGEND, SEE NOTE 3 ON DRAWING B28494.
4.  ALL DUCTWORK, UNLESS NOTED OTHERWISE.
5.  - INDICATES REVISION LEVEL.

4	5/7/92	MRB	---	BCL	DAUS	APR	INCORP. MH40 91-622 CAB
3	4/9/87	DAP	TAK	LFC	BCL	NAC	REVISED REV. 2 SIGNOFF DATE ERROR.
2	3/13/87	PHL	TAK	NRJ	BCL	NAC	INCORP. OCR 86-585 AND ADDED DAMPERS PER JEAC PAID. CORRECTED DRAFTING ERRORS, ADDED NOTE 5 AND PAID LEGEND REF NOTE.
1	4/2/86	MAP	WES	JDM	VNK	RFC	INCORPORATED ECA 99/117635A
0	06/12/86	DWS	GJS	JDM	DFM	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

PSNH

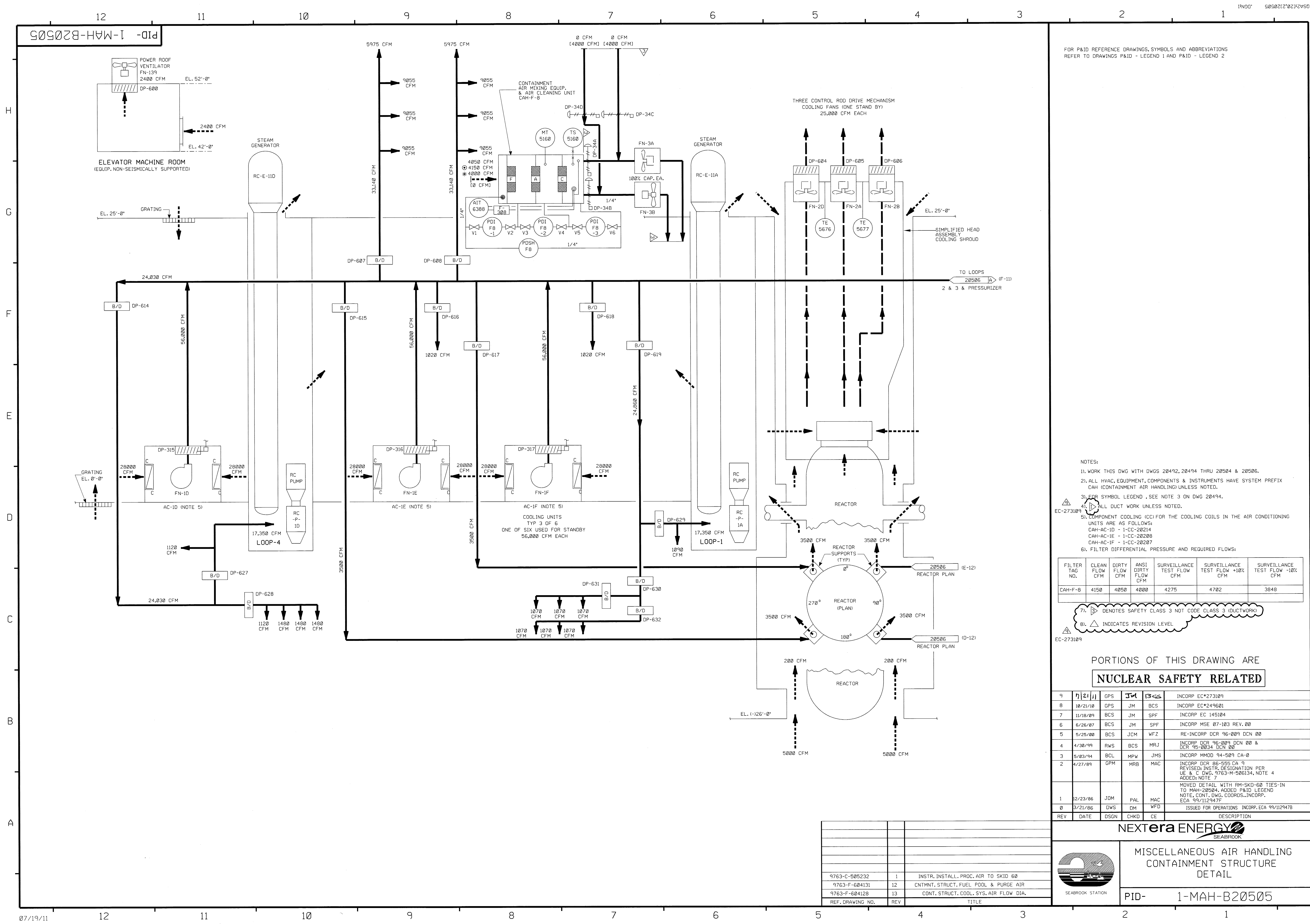
PUBLIC SERVICE OF NEW HAMPSHIRE

MISCELLANEOUS AIR HANDLING  
WASTE PROCESS BUILDING  
DETAIL OF ELEV. (-)31'- 0"

SEABROCK STATION

PID- 1-MAH-B20502





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

- NOTES:
1. WORK THIS DWG WITH DWGS 20492, 20494 THRU 20504 & 20506.
  2. ALL HVAC, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAH (CONTAINMENT AIR HANDLING) UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG 20494.
  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-20214  
CAH-AC-1E - 1-CC-20208  
CAH-AC-1F - 1-CC-20207
  6. FILTER DIFFERENTIAL PRESSURE AND 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
CAH-F-8	4150	4050	4020	4275	4702	3848

7. DENOTES SAFETY CLASS 3 NOT CODE CLASS 3 (DUCTWORK)  
8. INDICATES REVISION LEVEL

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

9	7/21/11	GPS	JM	BCS	INCRP EC*273109
8	10/21/10	GPS	JM	BCS	INCRP EC*249601
7	11/18/09	BCS	JM	SPF	INCRP EC 145104
6	6/26/07	BCS	JM	SPF	INCRP MSE 07-103 REV. 00
5	5/25/00	BCS	JCM	WFZ	RE-INCRP DCR 96-009 DCN 00
4	4/30/99	RWS	BCS	MRJ	INCRP DCR 96-009 DCN 00 & DCR 95-0034 DCN 00
3	5/03/94	BCL	MPW	JMS	INCRP MMOD 94-509 CA-0
2	4/27/89	GPM	MRB	MAC	INCRP DCR 86-555 CA 9 REVISED INSTR. DESIGNATION PER UE & C DWG. 9763-M-506134, NOTE 4 ADDED NOTE 7
1	12/23/86	JDM	PAL	MAC	MOVED DETAIL WITH RM-SKD-60 TIES-IN TO MAH-20504, ADDED P&ID LEGEND NOTE, CONT. DWG. COORDS., INCRP, ECA 99/112947F
0	3/21/86	DWS	DM	WFD	ISSUED FOR OPERATIONS INCRP, ECA 99/112947B
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

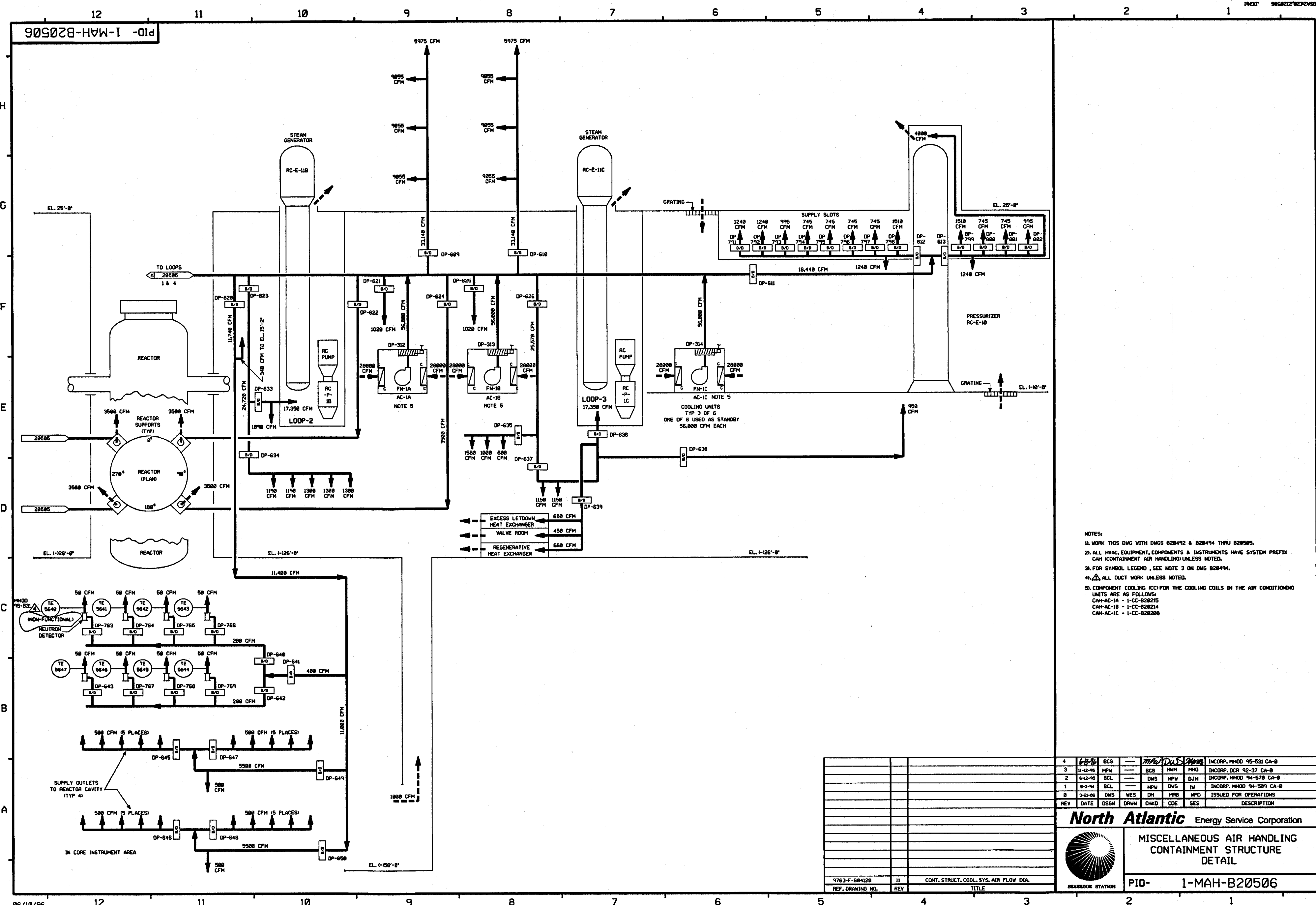
**NEXTERA ENERGY**  
SEABROOK



MISCELLANEOUS AIR HANDLING  
CONTAINMENT STRUCTURE  
DETAIL


PID- 1-MAH-B20505

9763-C-505232	1	INSTR. INSTALL. PROC. AIR TO SKID 60
9763-F-604131	12	CONT. STRUCT. FUEL POOL & PURGE AIR
9763-F-604128	13	CONT. STRUCT. COOL. SYS. AIR FLOW DIA.
REF. DRAWING NO.	REV	TITLE



- NOTES:
1. WORK THIS DWG WITH DWGS 828492 & 828494 THRU 828505.
  2. ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAH CONTAINMENT AIR HANDLING UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG 828494.
  4. ALL DUCT WORK UNLESS NOTED.
  5. COMPONENT COOLING (CC) FOR THE COOLING COILS IN THE AIR CONDITIONING UNITS ARE AS FOLLOWS:  
CAH-AC-1A - 1-CC-828215  
CAH-AC-1B - 1-CC-828214  
CAH-AC-1C - 1-CC-828208

			4	11-12-85	BCS	MPW	INCORP. MMD 95-531 CA-8			
			3	11-12-85	MPW	BCS	INCORP. DCR 92-37 CA-8			
			2	8-12-85	BCL	DWS	INCORP. MMD 94-578 CA-8			
			1	5-3-84	BCL	MPW	INCORP. MMD 94-580 CA-8			
			0	7-21-86	DWS	MES	ISSUED FOR OPERATIONS			
			REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION



SEABROOK STATION

MISCELLANEOUS AIR HANDLING  
CONTAINMENT STRUCTURE  
DETAIL

PID- 1-MAH-B20506

9763-F-684128  
REF. DRAWING NO.

11  
REV

CONT. STRUCT. COOL. SYS. AIR FLOW DIA.  
TITLE



NOTES:


1. WORK THIS DRAWING WITH 20492, 20494 THRU 20503;  
 & 20505 & 20506.
2. ALL PIPING, HVAC, 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. 20494.
4. VALVE COP-V7 IS USED FOR THROTTLING.

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

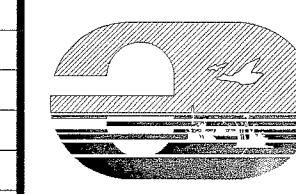
FILTER TAG NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	ANSI DIRTY FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW +10% CFM	SURVEILLANCE TEST FLOW -10% CFM
DAP-F-40	15900	15300	15000	15450	16995	13905

6. VENT & DRAIN COCK BREAKS ARE AT THE DOWNSTREAM SIDE OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS OTHERWISE NOTED.
7. BLIND IS INSTALLED TO ISOLATE THE FILTER, DURING MODES 1-4 (NORMAL OPERATION), DURING MODES 5 & 6 (OUTAGES), THE BLIND WILL BE REMOVED TO ALIGN THE FILTER FOR OPERATION.
8.  $\Delta$  INDICATES REVISION LEVEL
9. DELETED
10. INSTRUMENT REMOVED AND LINE CAPPED.
11. TESTABLE FLANGES ARE INSTALLED DURING MODES 1-4 (NORMAL OPERATION). DURING MODES 5 & 6 (OUTAGES), THE BLIND FLANGES WILL BE REMOVED AND TRANSITION PIECES INSTALLED.
12. PDI FOR USE DURING REFUELLING OUTAGES, ATTACH TAMPING TUBING TO HIGH SIDE AND ROUTE TO OUTSIDE AMBIENT.

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

28	10/15/10	GPS	BS	DGM	INCORP EC 249830
27	10/9/09	BCS	JM	STR	INCORP EC12721
26	2/4/09	BCL	JM	SPF	INCORP MEM 09-009 REV.0
25	4/14/08	BCL	JM	JME	INCORP MMOD 06-527 DCN-00
24	12/8/04	BCS	JM	RRB	INCORP CR 04-09401 DCN-00
23	9/4/03	BCS	JM	MKC	INCORP SYSTEM FINAL CONFIGURATION PER 00-21 DCN-00
22	1/27/03	JM	MPW	BCS	INCORP CR 00-04963 REV.00, REVISED VALVE SYMBOL
21	10/20/00	DWS	BCS	MKC	INCORP DCR 000021 DCN*00
20	6/2/98	DWS	BCS	HWM	INCORP MMOD 970618 DCN00
19	6/2/95	DRL	MPW	VWS	INCORP, MMOD 97-521 DCN 00
18	12/2/95	MPW	BCS	RJF	INCORP, MMOD 96-508 CA-0
17	11/8/95	BCL	MPW	RRC	INCORP, DCR 95-003 CA-0
16	6/12/95	BCL	DWS	DJM	INCORP MMOD 94-578 CA-0
15	4/20/94	MPW	BCL	WF2	INCORP, DCR 92-014 CA-0
14	2/9/94	BCL	MRB	WF2	INCORP, MMOD 93-524 CA-0
13	10/2/92	BCL	MRB	BAW	INCORP, DCR 90-14 CA14
12	4/14/92	MRB	DWS	JEV	INCORP MMOD 91-515 CA0
11	9/18/91	GPM	JM	MAC	INCORP, DCR 90-14 CA02
10	2/26/91	MRB	JM	BCL	INCORP, DCR 86-555 CA01 & MMOD 96-548 CA01
9	1/23/90	MRB	APL	GRL	INCORP MMOD 86-566 CA 0 AND MMOD 86-555 CA 0
8	4/27/89	GPM	MRB	MAC	INCORP SYSTEM PREFIX PER NOTE 2
7	5/12/87	MPW	HIW	VWS	INCORP DCR 86-555 CA 9
6	4/9/87	DAP	LFC	MAC	REVISED VALVE SYMBOLS PER FP 73290, NOTE 6 DELETED NOTE 7 & 9
5	3/13/87	MRJ	JDM	MAC	DELETED CHANGE ITEM  PER DCR 87-135
4	12/23/86	JDM	PAL	RRC	REVISED REV 5, SIGNOFF DATE ERROR, REVISED SYS PREFIX FOR VLVS ON RM-SKD-60 REVISED CAH-80 TO GLOBE VLV PER ECA 99/000010
3	10/17/86	JDM	MPW	RRR	ADDED SENSING LINES AND REMOVED RACK MTD, SYMBOLS PER EXISTING CONFIGURATION, ADDED NOTE 1 AND CHANGE ITEM 1
2	10/9/86	JDM	MAP	RRC	ADDED CONTINUATION DWG COORDINATES, INCORP ECA 99/129999
1	6/24/86	DWS	VNK	RRC	INCORP ECA 02/108999A
0	3/4/86	DWS	CHD	WFO	ADDED NOTE 7, 8 & P&ID LEGEND, INCORP DETAILS FOR RM-SKD-60, INCORP ECA 02/000010 98/17840A
					ADDED LINE SIZES & REV REF DWGS
					UPDATE PER LATEST U&C P1&D
					INCORP ECA 99/129999
					ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK



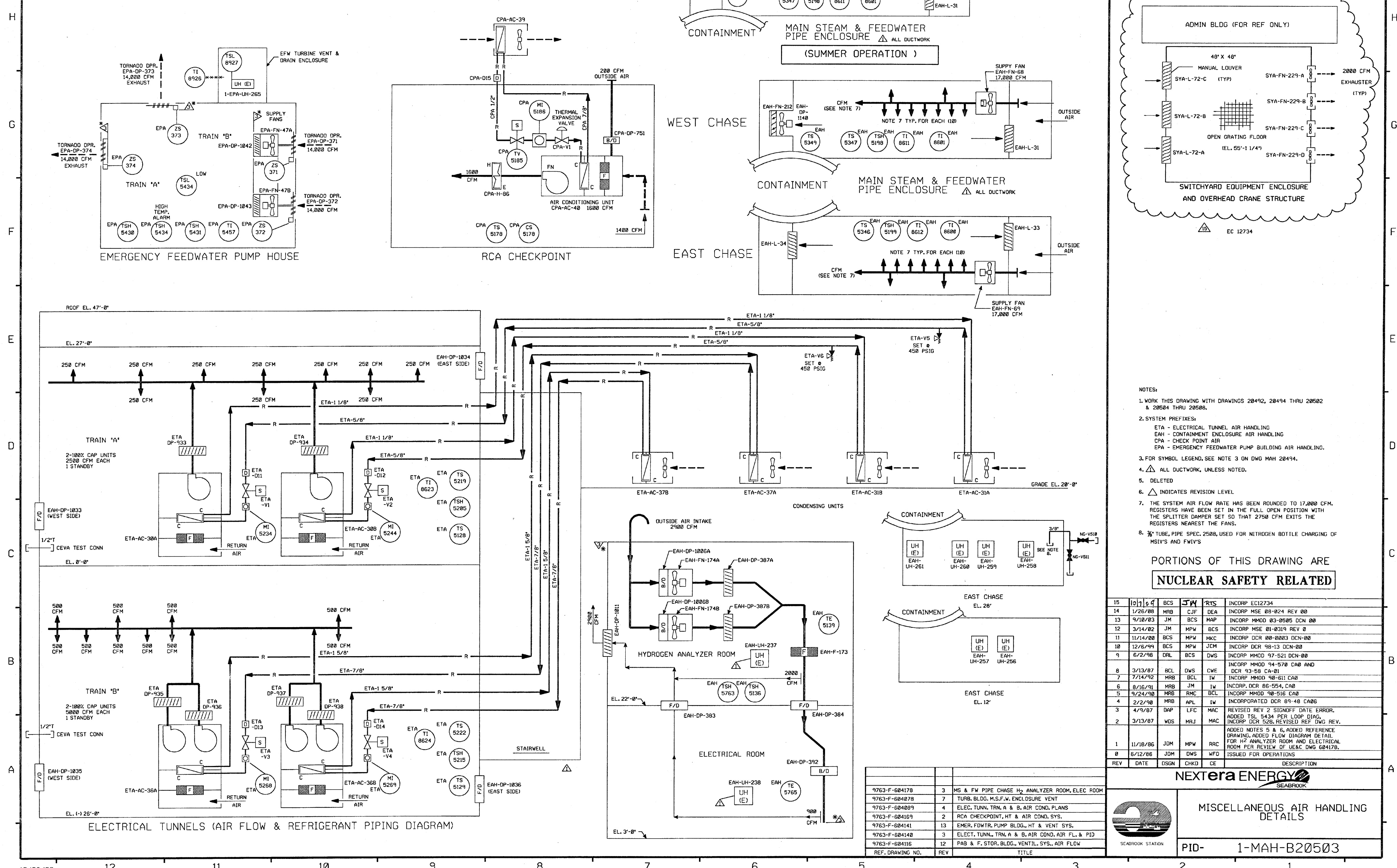
MISCELLANEOUS AIR HANDLING  
CONTAINMENT & PURGES  
DETAIL (COP, CAP)

PID-	1-MAH-B20504
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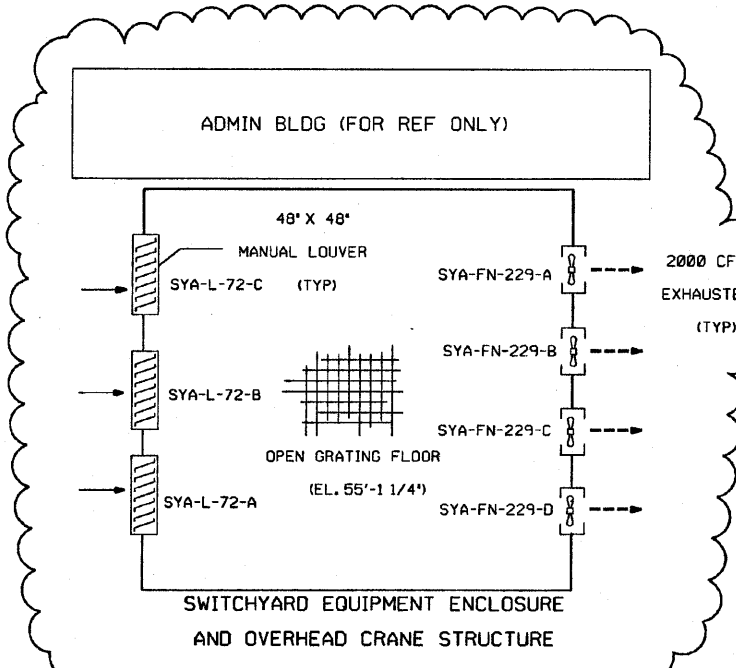
9763-F-604116	12	PAB & FUEL STOR BLDG, VENT SYS, AIR FLOW DIA-SHT 2
9763-F-604108	18	PAB VENT SYS, AIR FLOW DIA-SHT 1
9763-F-604131	12	CONT STR FUEL PL PURGE EXH SYS, AIR FLOW
REF. DRAWING NO.	REV	TITLE



PID-1-MAH-B20503



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 20502 & 20504 THRU 20508.
  2. SYSTEM PREFIXES:  
ETA - ELECTRICAL TUNNEL AIR HANDLING  
EAH - CONTAINMENT ENCLOSURE AIR HANDLING  
CPA - CHECK POINT AIR  
EPA - EMERGENCY FEEDWATER PUMP BUILDING AIR HANDLING.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG MAH 20494.
  4. ALL DUCTWORK, UNLESS NOTED.
  5. DELETED
  6. INDICATES REVISION LEVEL
  7. THE SYSTEM AIR FLOW RATE HAS BEEN ROUNDED TO 17,000 CFM. REGISTERS HAVE BEEN SET IN THE FULL OPEN POSITION WITH THE SPLITTER DAMPER SET SO THAT 2750 CFM EXITS THE REGISTERS NEAREST THE FANS.
  8. TUBE, PIPE SPEC. 2508, USED FOR NITROGEN BOTTLE CHARGING OF MSIV'S AND FWIV'S

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

15	10/1/84	BCS	JW	RTS	INCORP EC12734
14	1/26/88	MRB	CJF	DEA	INCORP MSE 08-024 REV 00
13	4/10/83	JM	BCS	MAP	INCORP MMOD 03-0505 DCN 00
12	3/14/82	JM	MPW	BCS	INCORP MSE 01-0319 REV 0
11	11/14/80	BCS	MPW	MKC	INCORP DCR 00-0003 DCN-00
10	12/6/99	BCS	MPW	JCM	INCORP DCR 98-13 DCN-00
9	6/2/98	DRL	BCS	DWS	INCORP MMOD 97-521 DCN-00
8	3/13/87	BCL	DWS	CWE	INCORP MMOD 94-578 CA0 AND DCR 93-58 CA-01
7	7/14/92	MRB	BCL	IW	INCORP MMOD 90-611 CA0
6	8/16/91	MRB	JM	IW	INCORP DCR 86-554, CA0
5	9/24/90	MRB	RMC	BCL	INCORP MMOD 90-516 CA0
4	2/2/90	MRB	APL	IW	INCORPORATED DCR 89-48 CA06
3	4/9/87	DAP	LFC	MAC	REVISED REV 2 SIGNOFF DATE ERROR.
2	3/13/87	WDS	MRJ	MAC	ADDED TSL 5434 PER LOOP DIAG. INCORP DCR 525, REVISED REF DWG REV.
1	11/18/86	JDM	MPW	RRC	ADDED NOTES 5 & 6, ADDED REFERENCE DRAWING, ADDED FLOW DIAGRAM DETAIL FOR H2 ANALYZER ROOM AND ELECTRICAL ROOM PER REVIEW OF IECAC DWG 684170.
0	8/12/86	JDM	DWS	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**

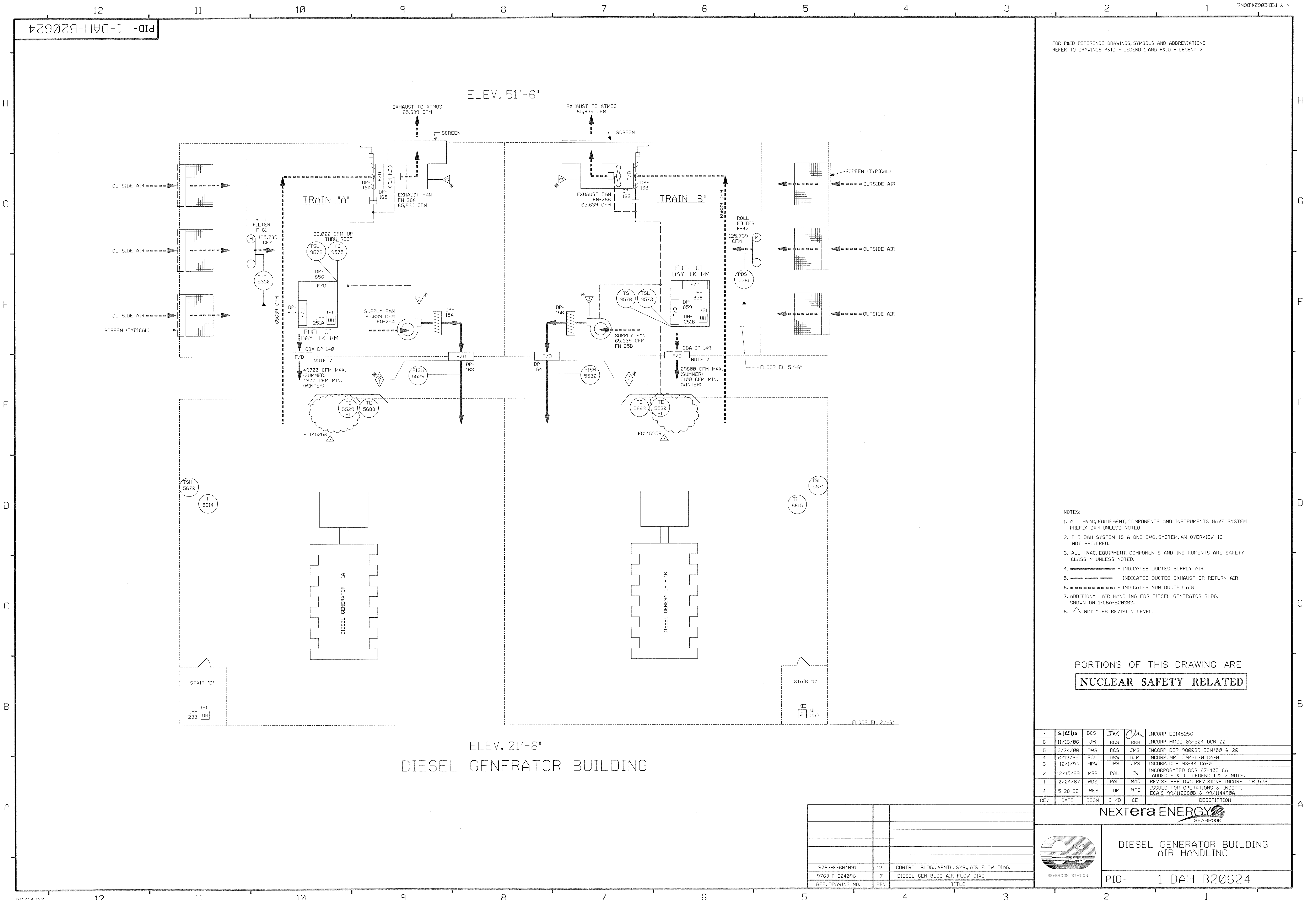
**SEABROOK**

**MISCELLANEOUS AIR HANDLING DETAILS**

**PID-1-MAH-B20503**

REF. DRAWING NO.	REV	TITLE
9763-F-60417B	3	MS & FW PIPE CHASE H <sub>2</sub> ANALYZER ROOM, ELEC ROOM
9763-F-604078	7	TURB. BLDG. M.S.F.W. ENCLOSURE VENT
9763-F-604089	4	ELEC. TUNN. TRN. A & B, AIR COND. PLANS
9763-F-604169	2	RCA CHECKPOINT, HT & AIR COND. SYS.
9763-F-604141	13	EMER. FOWTR. PUMP BLDG., HT & VENT. SYS.
9763-F-604140	3	ELECT. TUNN., TRN. A & B, AIR COND. AIR FL. & PID
9763-F-604116	12	PAB & F. STOR. BLDG., VENTIL. SYS., AIR FLOW



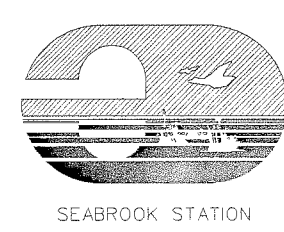


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. ALL HVAC, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX DAH UNLESS NOTED.
  2. THE DAH SYSTEM IS A ONE DWG. 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 BLDG. SHOWN ON 1-CBA-B20303.
  8. △ INDICATES REVISION LEVEL.

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

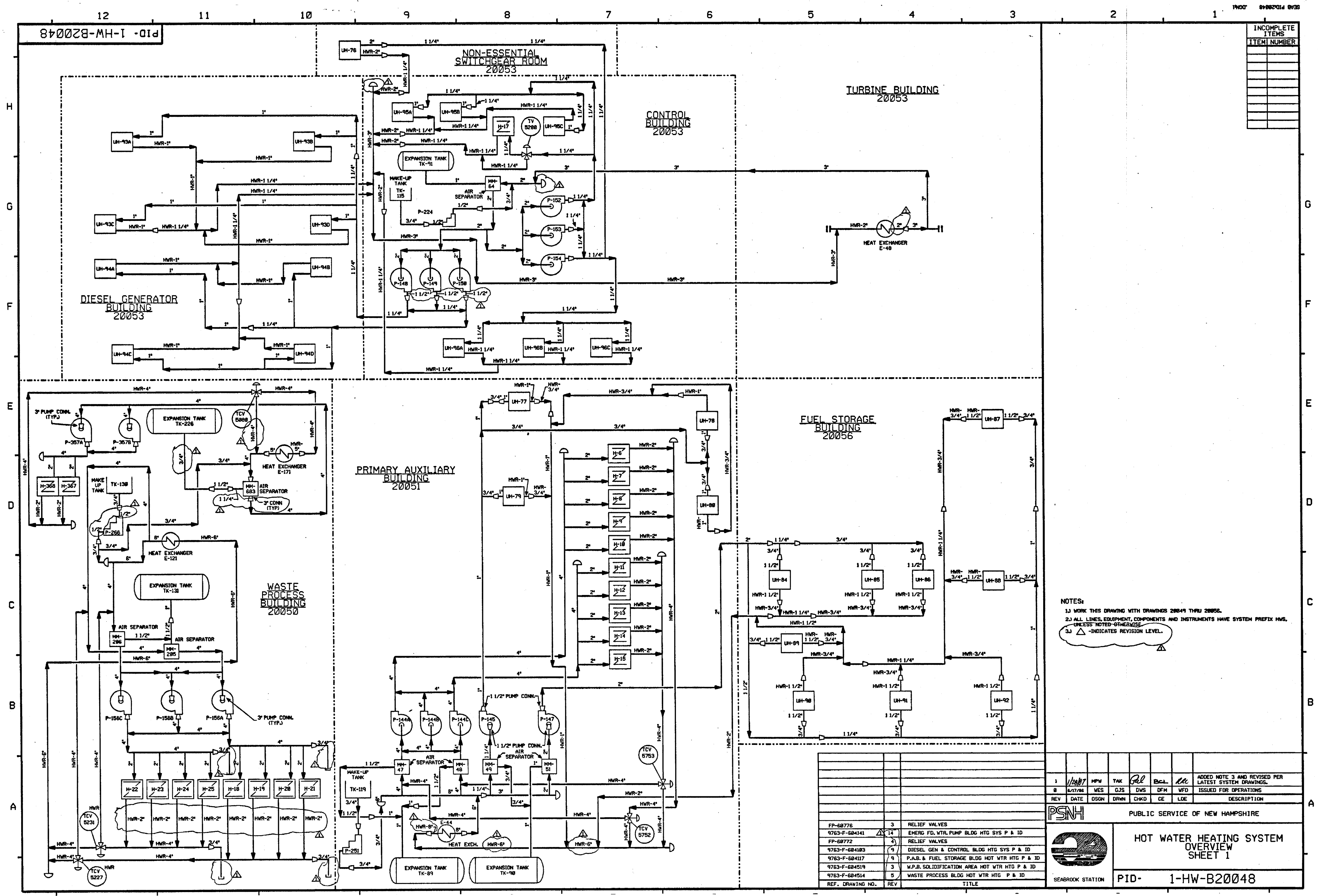
7	6/12/10	BCS	JM	OK	INCORP EC145256
6	11/16/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00
5	3/24/00	DWS	BCS	JMS	INCORP DCR 980039 DCN#00 & 20
4	6/12/95	BCL	DSW	DJM	INCORP MMOD 94-570 CA-0
3	12/1/94	MPW	DWS	JPS	INCORP DCR 93-44 CA-0
2	12/15/89	MRB	PAL	JW	INCORPORATED DCR 87-405 CA
1	2/24/87	WDS	PAL	MAC	ADDED P & ID LEGEND 1 & 2 NOTE.
0	5-28-86	WES	JDM	WFO	REVISE REF DWG REVISIONS INCORP DCR 528
0					ISSUED FOR OPERATIONS & INCORP ECA'S 99/1126808 & 99/114498A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



DIESEL GENERATOR BUILDING  
AIR HANDLING

PID- 1-DAH-B20624

9763-F-604091	12	CONTROL BLDG., VENTL. SYS., AIR FLOW DIAG.
9763-F-604096	7	DIESEL GEN BLDG AIR FLOW DIAG
REF. DRAWING NO.	REV	TITLE



INCOMPLETE ITEMS	
ITEM	NUMBER

NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20049 THRU 20056.  
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX HWS, UNLESS NOTED OTHERWISE.  
3.  $\Delta$  INDICATES REVISION LEVEL.

REV	DATE	BY	CHKD	DESCRIPTION
1	1/20/78	WES	GJS	ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS.
2	6/17/78	WES	GJS	ISSUED FOR OPERATIONS.
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PSNH

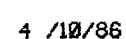
SEABROOK STATION

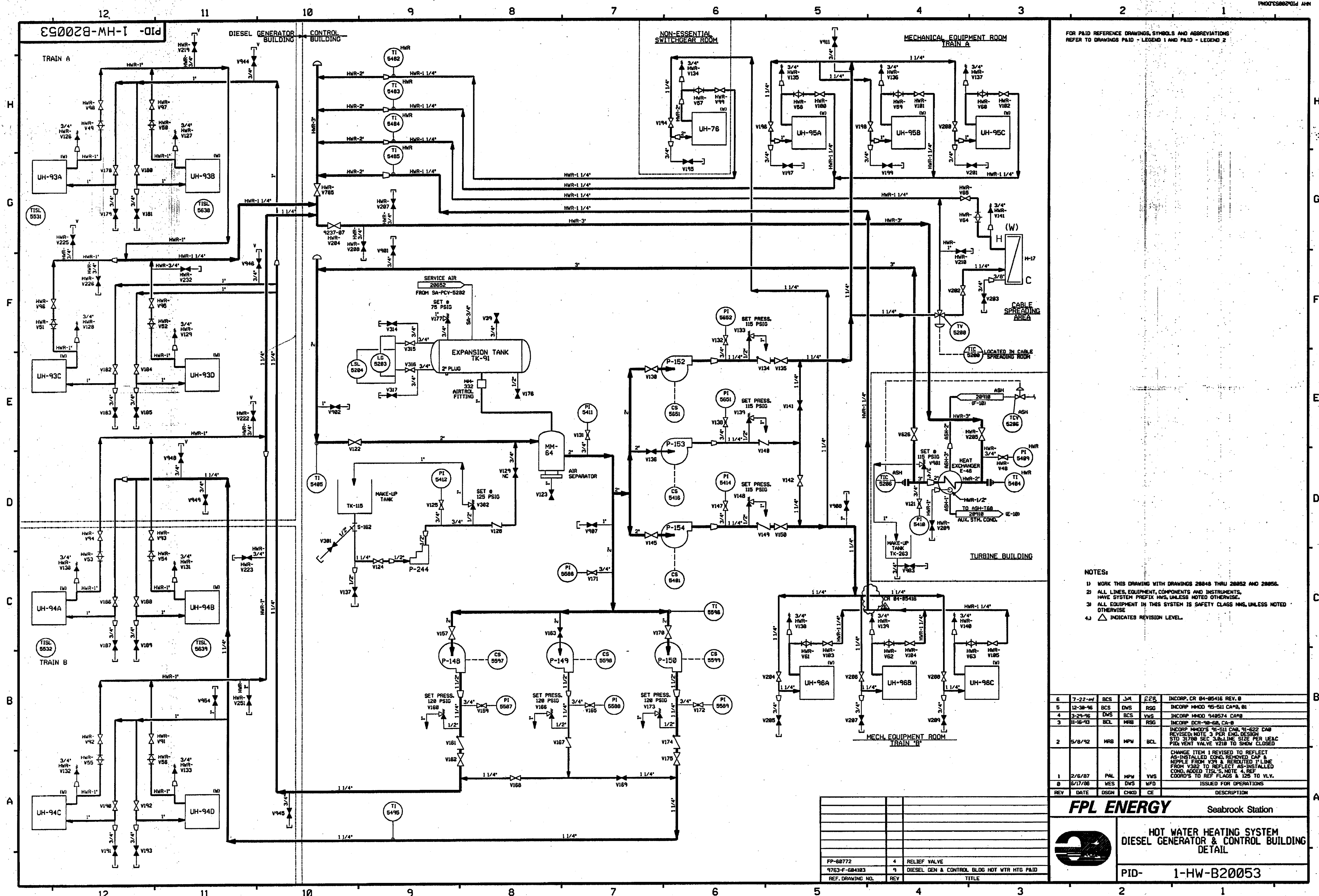
ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS.

ISSUED FOR OPERATIONS.

HOT WATER HEATING SYSTEM OVERVIEW SHEET 1


PID-1-HW-B20048





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 28048 THRU 28052 AND 28055.
- 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS, HAVE SYSTEM PREFIX NMS, UNLESS NOTED OTHERWISE.
- 3) ALL EQUIPMENT IN THIS SYSTEM IS SAFETY CLASS NMS, UNLESS NOTED OTHERWISE
- 4)  INDICATES REVISION LEVEL.

6	7-22-64	BSC	JM	228	INCDRP CR 84-05416 REV. 0
5	12-30-64	BSC	DWS	RSG	INCDRP M4DD 95-0432 CA#8
4	3-29-66	DWS	BSC	VNS	INCDRP M4DD 940574 CA#8
3	11-16-93	BDL	MFB	RSG	INCDRP DCR-98-68, CA-8
2	5/8/92	MFB	MPW	BDL	INCDRP M4DD's 91-511, 91-622 CA8 REVISED NOTE A PER ENCL 1 STO 31780 SEC 3.6.1.1.1.1.1.1.1.1.1.1 PID, VENT VALVE, AND DAMP COVER
1	2/6/87	PAL	MPW	VNS	CHANGE LIST REVISED TO REFLECT AS-INSTALLED COND. REMOVED CAP A SAMPLE FROM 139 A. NEGOTIATED 1 LINE FROM 1392 TO REFLECT AS-INSTALLED COND. ADDED TISL'S, NOTE A, REF COORD'S TO REFLECT A 125 TO VL.V.
0	6/17/88	VES	DWS	MFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

## Seabrook Station



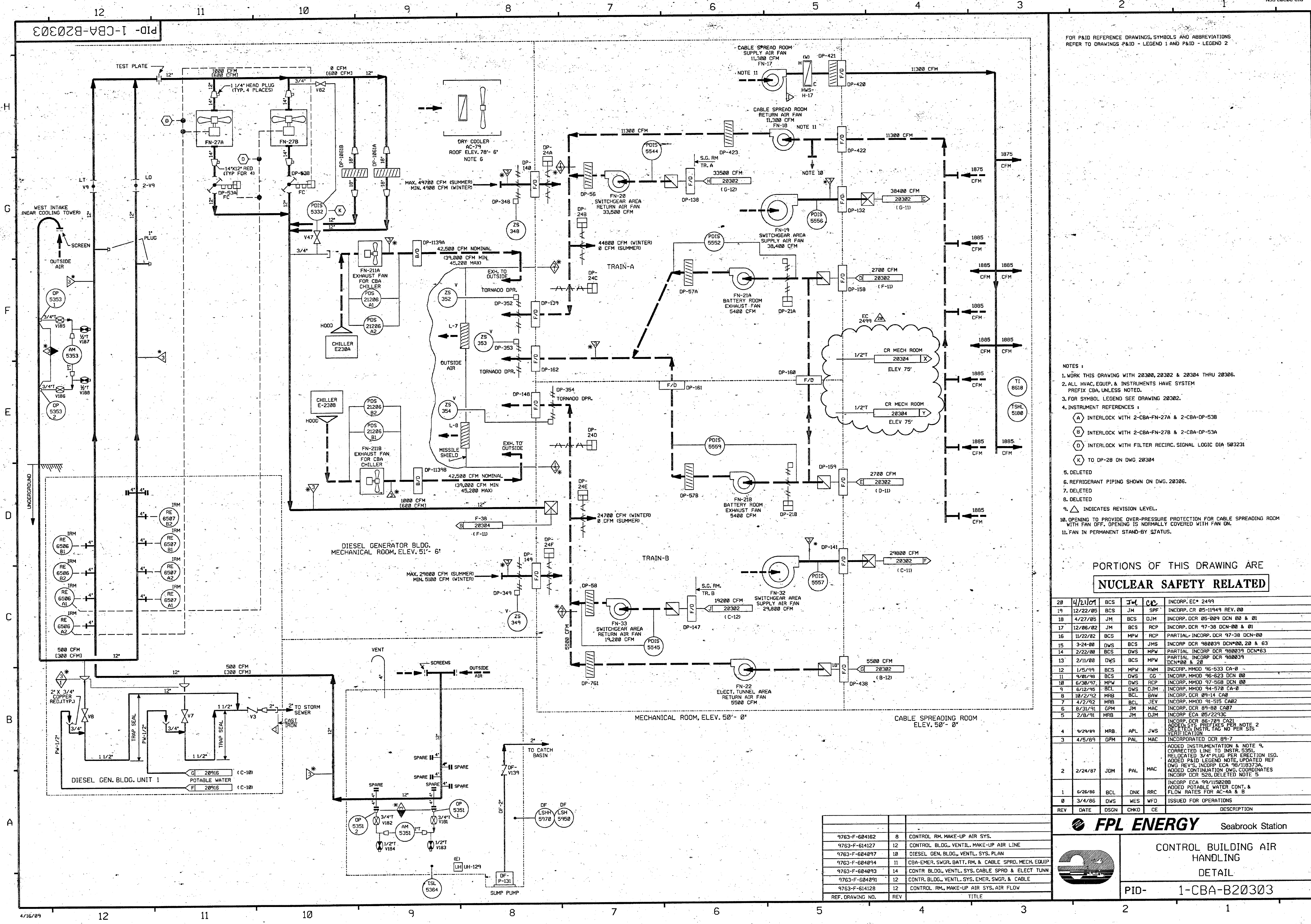
**HOT WATER HEATING SYSTEM  
DIESEL GENERATOR & CONTROL BUILDING  
DETAIL**

PID- 1-HW-B20053



PID-1-CBA-B20303

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

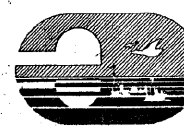
- NOTES:
1. WORK THIS DRAWING WITH 20300, 20302 & 20304 THRU 20306.
  2. ALL HVAC, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED.
  3. FOR SYMBOL LEGEND SEE DRAWING 20302.
  4. INSTRUMENT REFERENCES:
    - (A) INTERLOCK WITH 2-CBA-FN-27A & 2-CBA-DP-53B
    - (B) INTERLOCK WITH 2-CBA-FN-27B & 2-CBA-DP-53A
    - (D) INTERLOCK WITH FILTER RECIRC. SIGNAL LOGIC DIA 503231
    - (K) TO DP-28 ON DWG 20304
  5. DELETED
  6. REFRIGERANT PIPING SHOWN ON DWG. 20306.
  7. DELETED
  8. DELETED
  9.  $\Delta$  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**

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	DESCRIPTION
20	4/21/01	BCS	JM	CC	INCORP. ECA 2499		
19	12/22/05	BCS	JM	SPF	INCORP. CR 05-11949 REV. 00		
18	4/27/05	JM	BCS	DJM	INCORP. DCR 05-009 DCM 00 & 01		
17	12/06/02	JM	BCS	RCP	INCORP. DCR 97-38 DCM 00 & 01		
16	11/22/02	BCS	MPW	RCP	PARTIAL INCORP. DCR 97-38 DCM 00		
15	3-24-00	DWS	BCS	JMS	INCORP. DCR 980039 DCM 00, 20 & 63		
14	2/22/00	BCS	DWS	MPW	PARTIAL INCORP. DCR 980039 DCM 63		
13	2/11/00	DWS	BCS	MPW	PARTIAL INCORP. DCR 980039		
12	1/5/99	BCS	MPW	RPM	INCORP. MM0D 96-533 CA-0		
11	9/01/98	BCS	DWS	GG	INCORP. MM0D 96-523 DCM 00		
10	6/30/97	MPW	DWS	RCP	INCORP. MM0D 97-568 DCM 00		
9	6/12/95	BCL	DWS	DJM	INCORP. MM0D 94-570 CA-0		
8	10/2/92	MRB	BCL	SAW	INCORP. DCR 89-14 CA-0		
7	4/2/92	MRB	BCL	JEV	INCORP. MM0D 91-515 CA-02		
6	8/31/91	GPM	JM	MAC	INCORP. DCR 89-80 CA-07		
5	2/8/91	MRB	JM	DJM	INCORP. ECA 05/22/93C		
4	9/29/89	MRB	APL	JWS	INCORP. DCR 88-789 CA-21 ADDED SYS. PREFIXES PER NOTE 2 DELETED INSTR. TAG NO PER SIS		
3	4/5/89	GPM	PAL	MAC	INCORPORATED DCR 89-7		
2	2/24/87	JDM	PAL	MAC	ADDED INSTRUMENTATION & NOTE 9, CORRECTED LINE TO INSTR. 5351, RELOCATED 3/4" PLUG PER RECTION ISO. ADDED P&ID LEGEND NOTE, UPDATED REF DWG REV'S, INCORP. ECA 98/10373A, ADDED CONTINUATION DWG. COORDINATES INCORP. DCR 528, DELETED NOTE 5		
1	6/26/86	BCL	DNK	RRC	INCORP. ECA 99/115020B ADDED POTABLE WATER CONT. & FLOW RATES FOR AC-4A & B		
0	3/4/86	DWS	WES	WFO	ISSUED FOR OPERATIONS		
REV	DATE	DESCRIPTION	BY	CHKD	CE		

**FPL ENERGY**

Seabrook Station



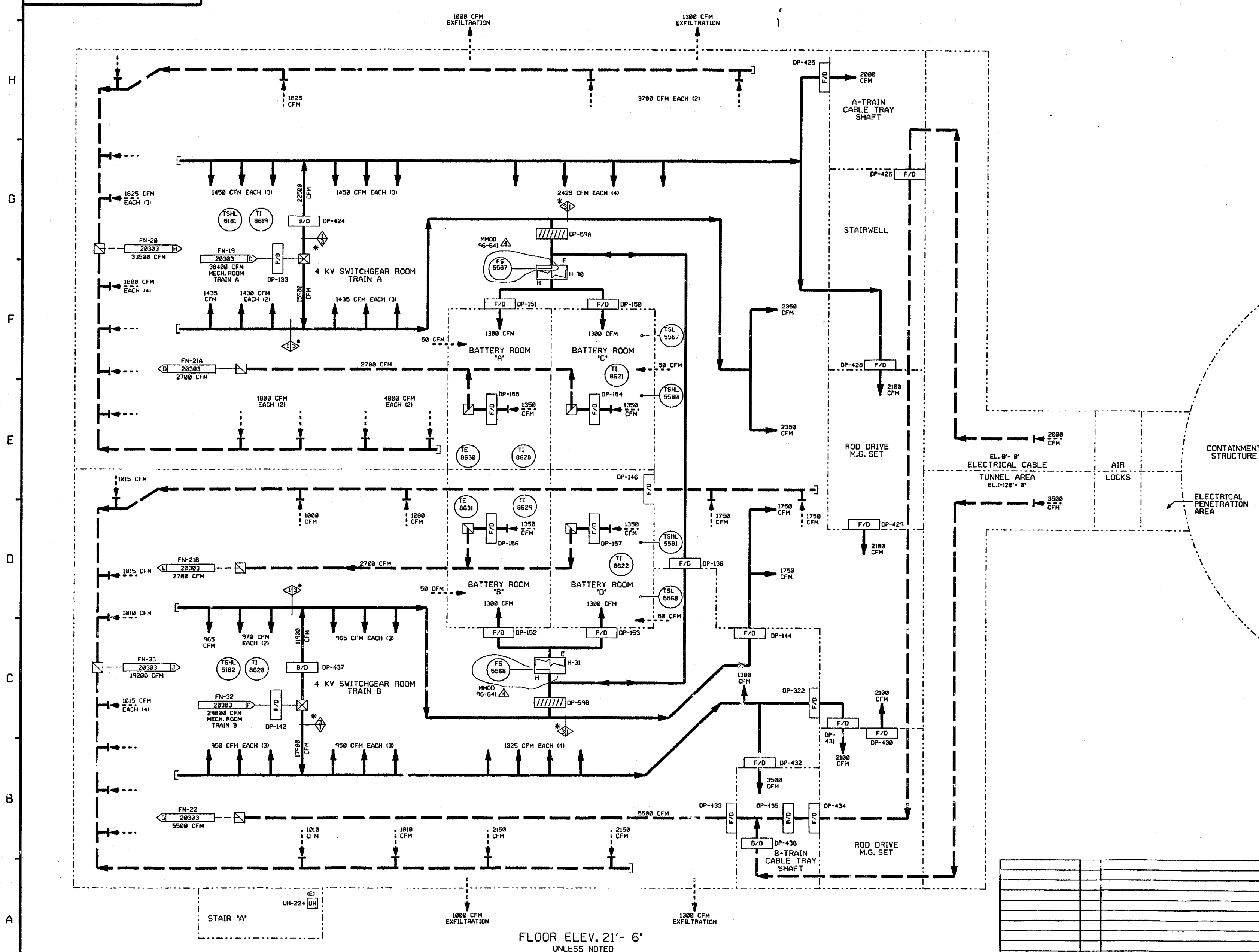
CONTROL BUILDING AIR  
HANDLING  
DETAIL

PID-1-CBA-B20303

REF. DRAWING NO.	REV	TITLE
9763-F-604162	8	CONTROL RM. MAKE-UP AIR SYS.
9763-F-614127	12	CONTROL BLDG. VENTIL. MAKE-UP AIR LINE
9763-F-604097	10	DIESEL GEN. BLDG. VENTIL. SYS. PLAN
9763-F-604094	11	CBA-EMER. SWGR. BATT. RM. & CABLE SPRD. MECH. EQUIP
9763-F-604093	14	CONTR. BLDG. VENTIL. SYS. CABLE SPRD. & ELECT. TUNN
9763-F-604091	12	CONTR. BLDG. VENTIL. SYS. EMER. SWGR. & CABLE
9763-F-614128	12	CONTROL RM. MAKE-UP AIR SYS. AIR FLOW

FIG. 1-CBA-B20302

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



NOTES:

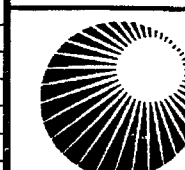
1. WORK THIS DRAWING WITH DRAWINGS B20300 & B20301 THRU B20304.
2. ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED OTHERWISE.
3. SYMBOL LEGEND

- XXX CFM NORMAL AIR FLOW
- XXXX CFM EMERGENCY AIR FLOW
- //--- PARALLEL MULTIBLADE DAMPER W/LIMIT SWITCH
- A---A--- OPPOSED MULTIBLADE DAMPER W/LIMIT SWITCH
- ////// BACKDRAFT DAMPER
- X/D DAMPER F-FIRE B-BALANCING
- ////// FIXED LOUVER
- C COOLING COIL
- FILTER F-ROUGHING, PRE-FILTER A-HEPA C-CHARCOAL
- E ELECTRIC HEATING COIL
- H/H HEATING COIL W-WATER S-STEAM
- UH UNIT HEATER W-WATER S-STEAM E-ELECTRIC
- HU HUMIDIFIER W-WATER
- DUCTED SUPPLY
- DUCTED RETURN
- NON-DUCTED SUPPLY OR RETURN

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

4	1/8/99	BCS	—	DWS	JPS	WVW	INCORP. MMD 96-641 DCN-88
3	6/12/98	BCL	—	DWS	MPW	DJM	INCORP. MMD 94-578 CA-2
2	2-5-98	MRB	LFC	APL	WCL	IV	INCORP. DCR 85-572CAB2, INCORP. DCR 528
1	2-24-87	WDS	DWS	PAL	BCL	MAC	REVISED REF DWG REVISIONS
0	2-4-86	DWS	GJS	WES	JKV	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

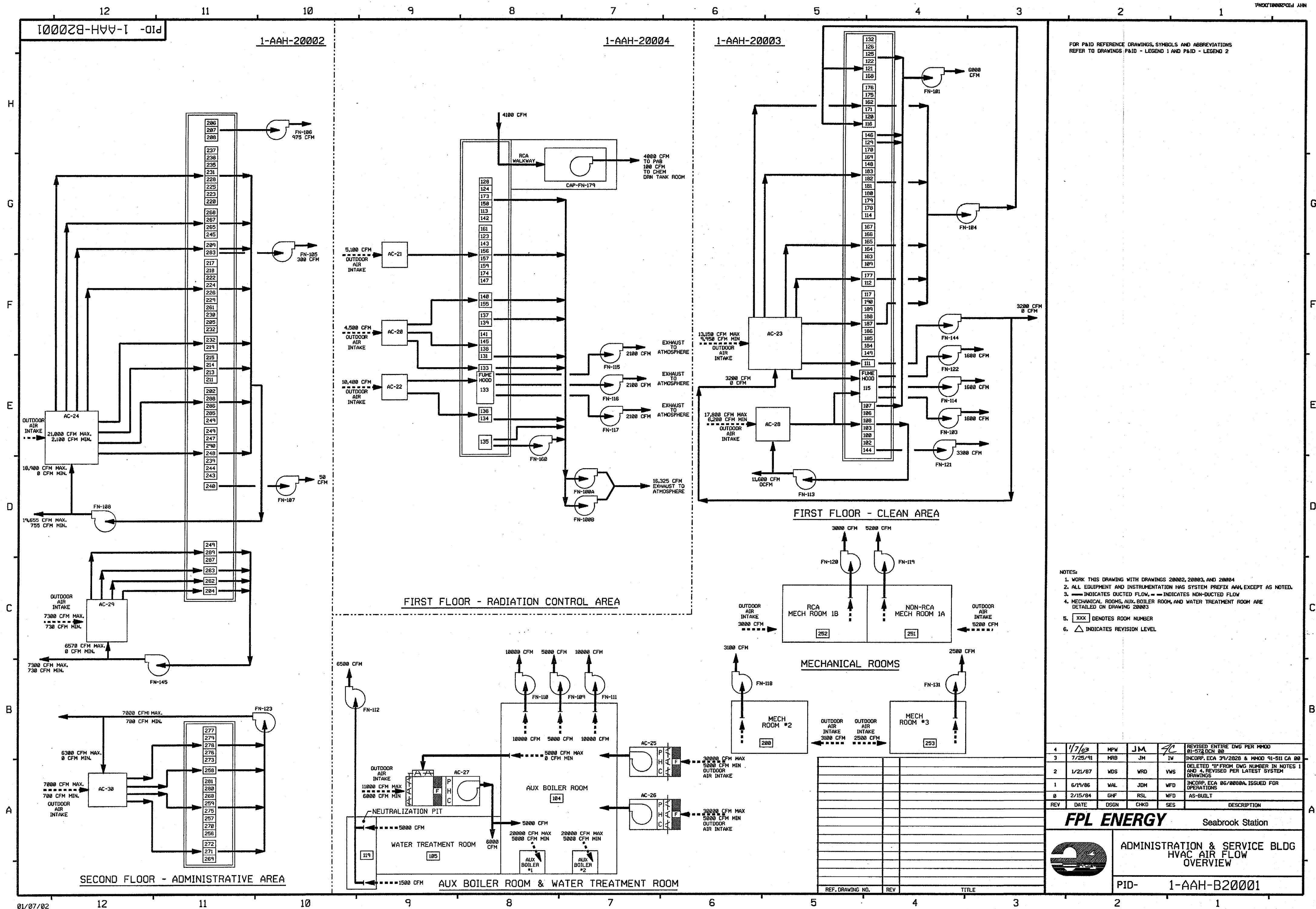
**North Atlantic** Energy Service Corporation

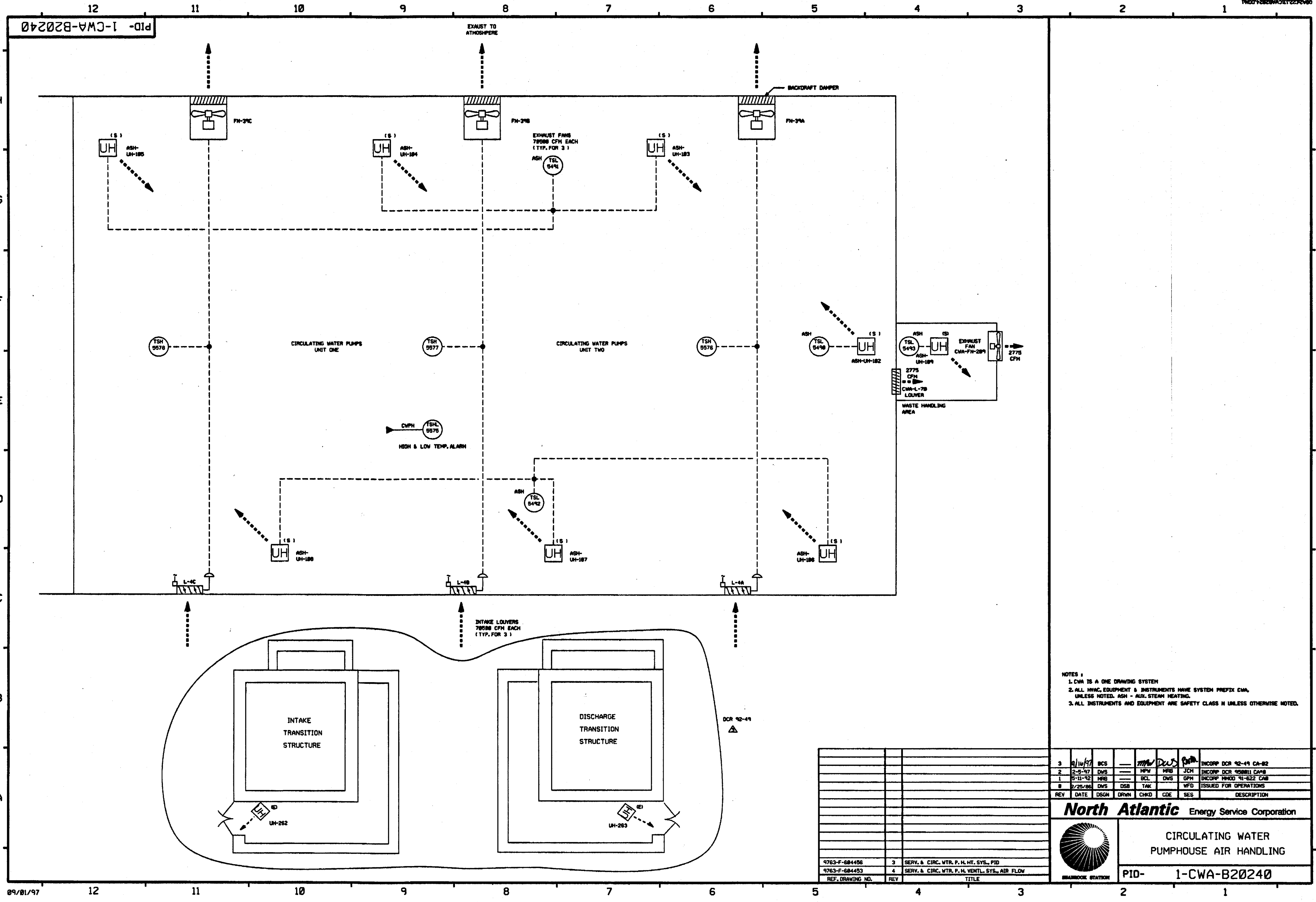


CONTROL BUILDING AIR HANDLING  
EMERGENCY SWITCHGEAR AREA  
DETAIL

PID- 1-CBA-B20302

9753-F-604895	13	CBA EMERG. SWGR. & BATT. ROOMS PLAN
9763-F-604891	12	CONTROL BLDG. VENT. SYS. AIR FLOW DIAG.
REF. DRAWING NO.	REV	TITLE





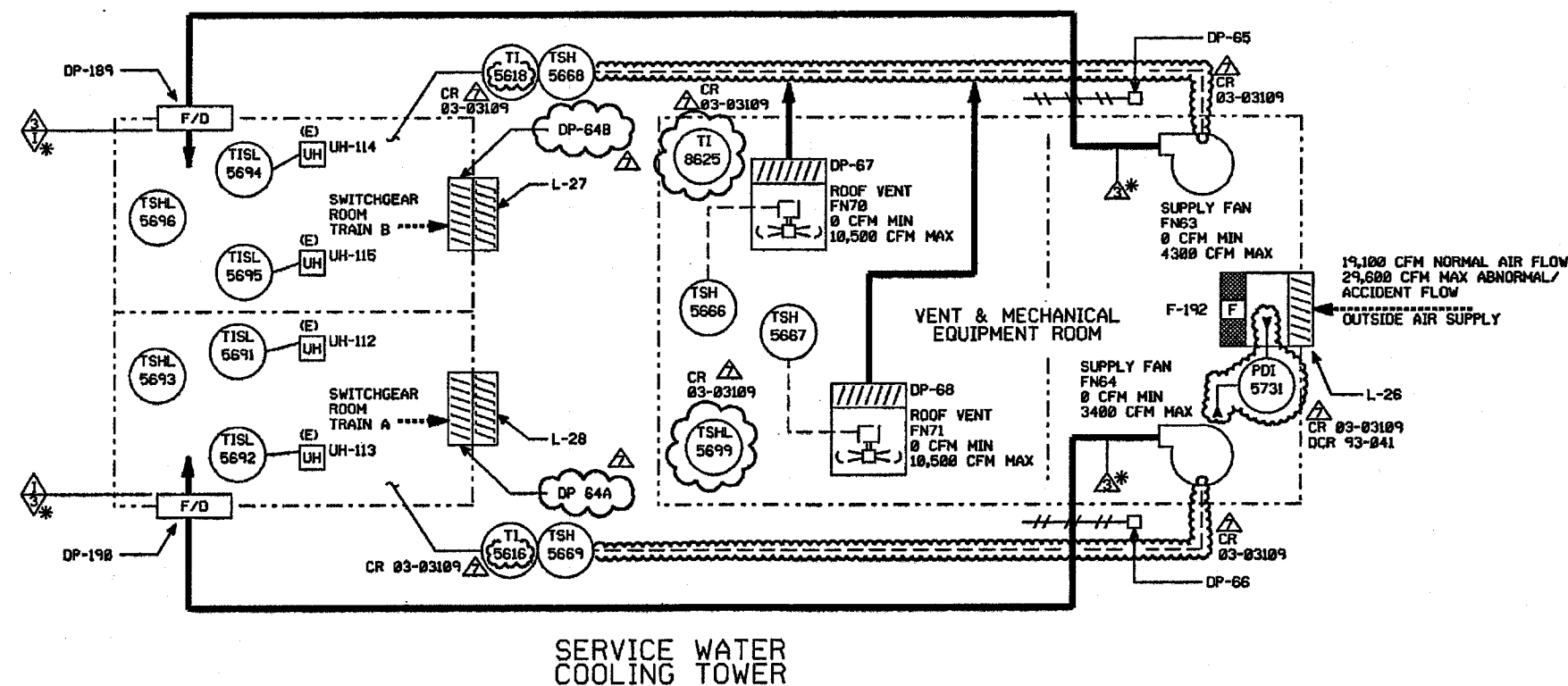
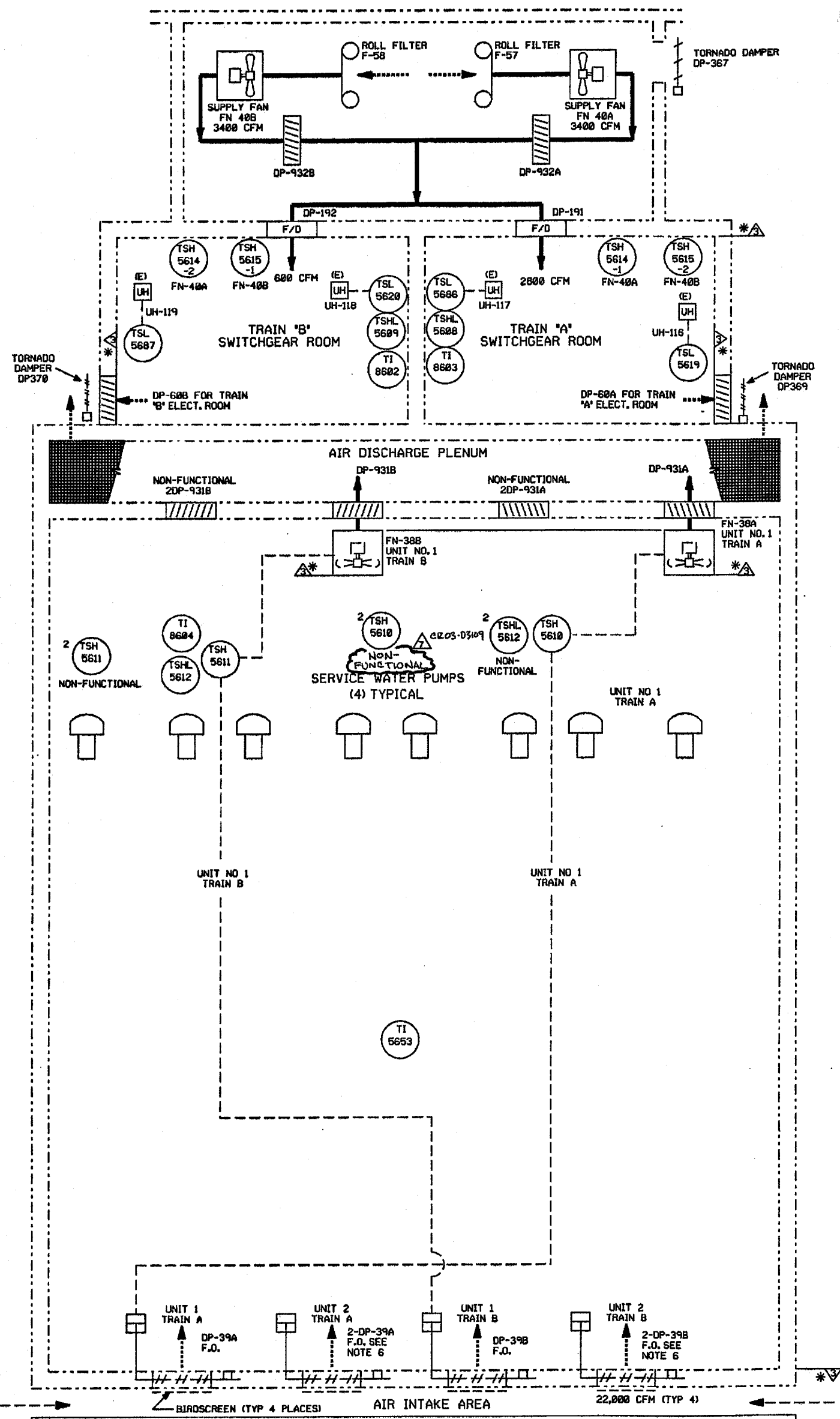
NOTES:  
1. CWA IS A ONE DRAWING SYSTEM.  
2. ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CWA, UNLESS NOTED. ASH - AUX. STEAM HEATING.  
3. ALL INSTRUMENTS AND EQUIPMENT ARE SAFETY CLASS II UNLESS OTHERWISE NOTED.

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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 SWA 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 MMS UNLESS OTHERWISE NOTED.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6. THIS UNIT 2 EQUIPMENT IS NEEDED FOR UNIT 1 OPERATION.

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

7	5/14/93	JM	BCL	MPW	VMS	INCORP. CR 83-83109 REV. 00 RE-INCORP. DCR 93-841 CA 01 & REVISED DAMPER ID'S
6	6/14/95	BCL	MPW	VMS	INCORP. MMOD '94-578 CA0	
5	12/9/94	BCL	MPW	VMS	INCORP. MMOD '94-581 CA0	
4	3/31/93	MRB	BCL	JCM	INCORP. MMOD '92-553 CA0	
3	9/24/90	MRB	JM	BCL	INCORP. MMOD '90-516 CA 0 REVISED NOTE 4 PER ENGINEERING DESIGN STANDARD 37188 SECT. 3.0 ADDED LEGEND NOTE	
2	8/2/88	MPW	PAL	MAC	REVERSED TI NO'S PER M-506844 REV 4 & INCORP. ECA 95/188182A	
1	2/24/87	WDS	PAL	MAC	INCORP. DCR 828, ADDED TI-5653 PER M-506844	
0	4-24-86	JS	JDM	WFD	ISSUED FOR OPERATIONS	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION	

**FPL ENERGY**

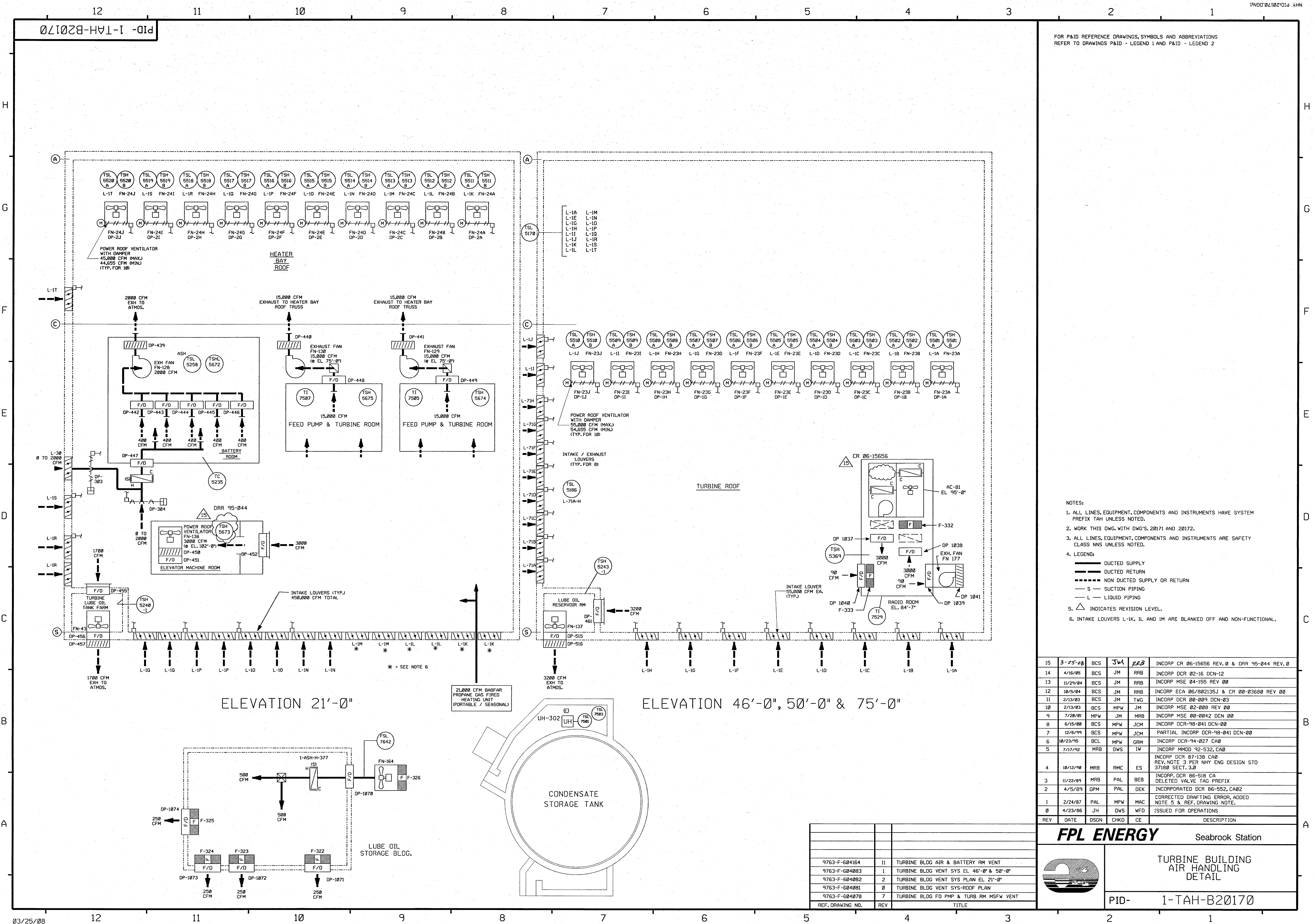
Seabrook Station



AIR HANDLING SYSTEM FOR  
SERVICE WATER PUMPHOUSE  
AND  
SERVICE WATER COOLING TOWER

PID- 1-SWA-B20372

9763-F-604139	13	COOLING TOWER VENTILATION & DRAINAGE
9763-F-604453	5	SERV & CIRC. WATER PUMPHOUSE HVAC DIAG.
REF. DRAWING NO.	REV	TITLE

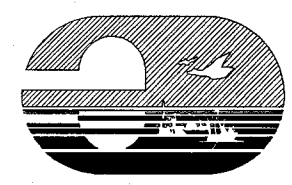


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX T&H UNLESS NOTED.
  2. WORK THIS DWG. WITH DWG'S 20171 AND 20172.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED.
  4. LEGEND:
    - DUCTED SUPPLY
    - DUCTED RETURN
    - NON DUCTED SUPPLY OR RETURN
    - S - SUCTION PIPING
    - L - LIQUID PIPING
    - △ INDICATES REVISION LEVEL.
    - 6. INTAKE LOUVERS L-1K, 1L AND 1M ARE BLANKED OFF AND NON-FUNCTIONAL.

15	3-25-08	BCS	JW	REB	INCORP CR 06-15656 REV. 0 & DRR 95-044 REV. 0
14	4/16/05	BCS	JM	RRB	INCORP DCR 02-16 DCN-12
13	11/29/04	BCS	JM	RRB	INCORP MSE 04-155 REV 00
12	10/5/04	BCS	JM	RRB	INCORP ECA 05/002135J & CR 00-03600 REV 00
11	2/13/03	BCS	JM	TWG	INCORP DCR 00-009 DCN-03
10	2/13/03	BCS	MPW	JM	INCORP MSE 02-008 REV 00
9	7/28/01	MPW	JM	MRB	INCORP MSE 00-0042 DCN 00
8	6/15/00	BCS	MPW	JCM	INCORP DCR-98-041 DCN-00
7	12/6/99	BCS	MPW	JCM	PARTIAL INCORP DCR-98-041 DCN-00
6	10/23/95	BCL	MPW	GRM	INCORP DCR-94-027 CA0
5	7/17/92	MRB	DWS	IW	INCORP MMOD 92-532, CA0
4	10/12/90	MRB	RMC	ES	INCORP DCR 87-130 CA0 REV. NOTE 3 PER NHY ENG DESIGN STD 37180 SECT. 3.0
3	11/22/89	MRB	PAL	BE8	INCORP DCR 86-518 CA DELETED VALVE TAG PREFIX
2	4/5/89	GPM	PAL	DEK	INCORPORATED DCR 86-552, CA02
1	2/24/87	PAL	MPW	MAC	CORRECTED DRAFTING ERROR, ADDED NOTE 5 & REF. DRAWING NOTE.
0	4/23/86	JH	DWS	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**  
Seabrook Station

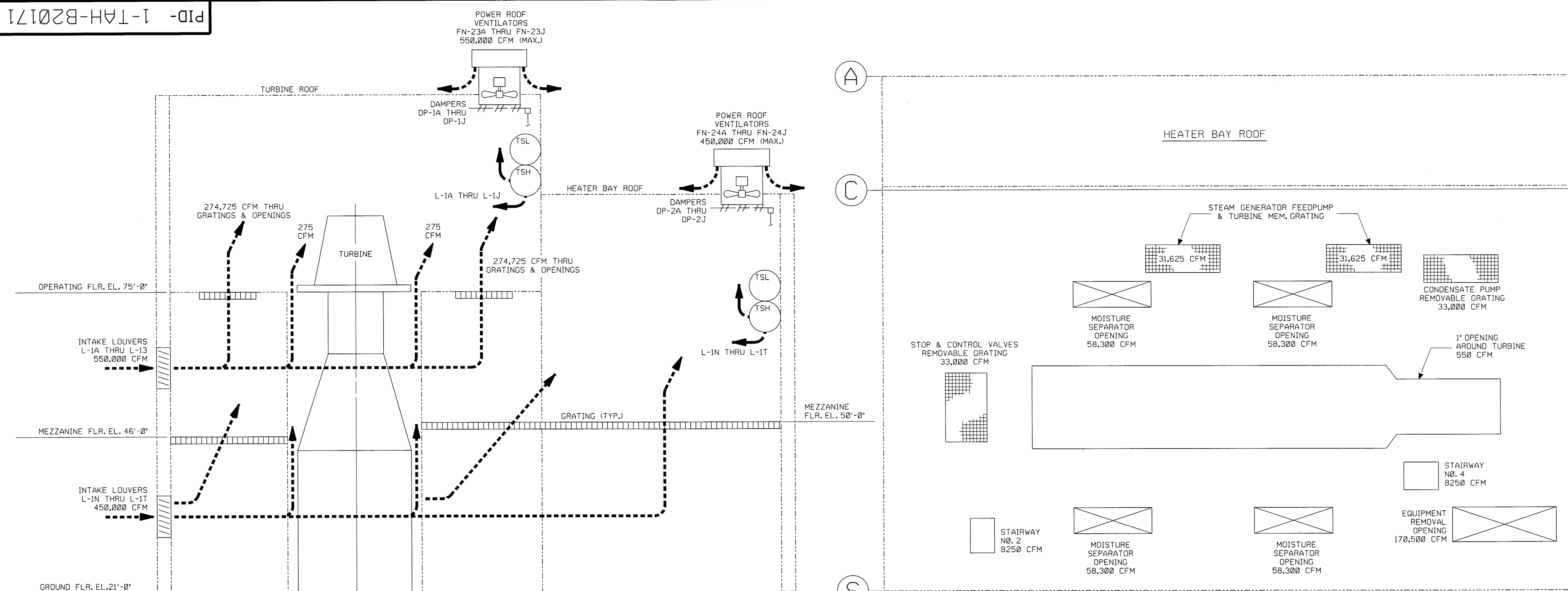
**TURBINE BUILDING  
AIR HANDLING  
DETAIL**

PID- 1-TAH-B20170

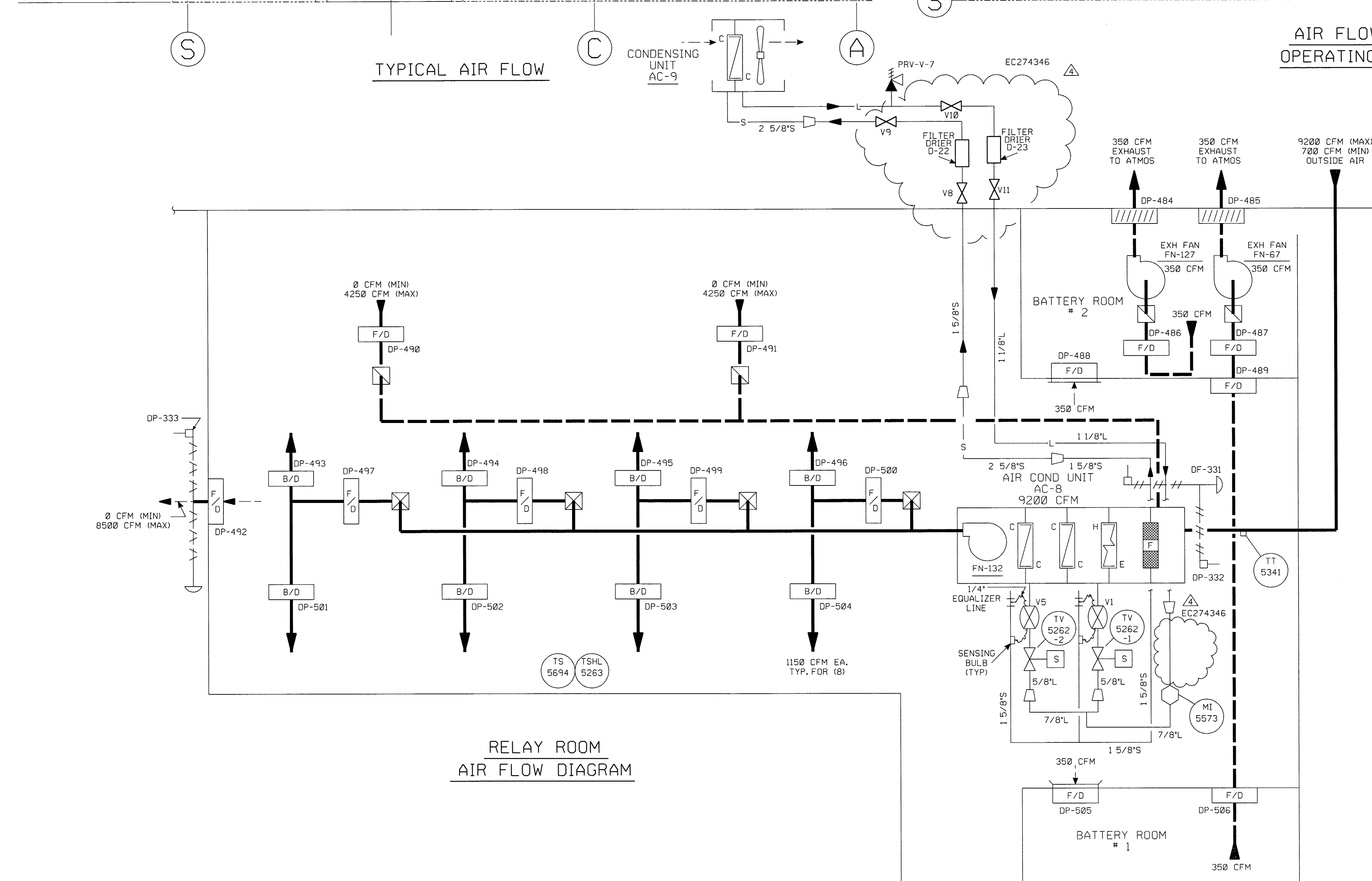
REF. DRAWING NO.	REV	TITLE
9763-F-604164	11	TURBINE BLDG AIR & BATTERY RM VENT
9763-F-604083	1	TURBINE BLDG VENT SYS EL 46'-0" & 50'-0"
9763-F-604082	2	TURBINE BLDG VENT SYS PLAN EL 21'-0"
9763-F-604081	0	TURBINE BLDG VENT SYS-ROOF PLAN
9763-F-604078	7	TURBINE BLDG FD PMP & TURB RM MSFW VENT

PID-1-TAH-B20171

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



AIR FLOW PATTERN THRU  
OPERATING FLOOR EL. 75'-0"



- NOTES:
1. WORK THIS DWG. WITH DWG'S. 20170 AND 20172.
  2. ALL HVAC, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX TAH (TURBINE AIR HANDLING) UNLESS NOTED.

4	11/14/11	BCS	JM	WJ	INCORP. EC 274346
3	4/19/05	BCS	JM	PAL	INCORP. DCR 02-016 DCN-12
2	7/17/92	MRB	DWS	ICW	INCORP. MMOD 92-532 CA0
1	1/22/91	MRB	JH	DJM	REVISED PER UE&C P&ID
0	4/23/86	JH	DWS	WFD	9763-F-614084
REV	DATE	DSGN	CHKD	CE	ISSUED FOR OPERATIONS

REV	DATE	DESCRIPTION
9763-F-614084	9	TURB BLDG RELAY RM AC SYS PLANS & SECT'S
9763-F-604164	11	BATT. RM. ELEV. MACH. RM. & AC EL. 75'-0"
9763-F-604083	1	TURB. BLDG. PLAN EL. 46'-0" & 50'-0"
9763-F-604082	2	TURB. BLDG. PLAN EL. 21'-0"
9763-F-604081	0	TURB. BLDG. ROOF PLAN
9763-F-604078	6	FEED PUMP & TURB. ROOM PLAN
REF. DRAWING NO.	REV	TITLE

**Nextera Energy**  
SEABROOK

**TURBINE BUILDING  
AIR HANDLING  
DETAIL**

PID- 1-TAH-B20171

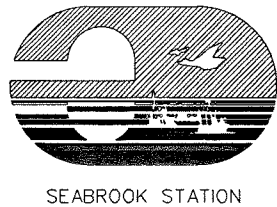


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX  
TAH UNLESS NOTED OTHERWISE.
  - WORK THIS DWG. WITH DWG. 20170 AND 20171
  - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY  
CLASS NNS UNLESS NOTED OTHERWISE.
  - LEGEND:
    - DUCTED SUPPLY
    - DUCTED RETURN
    - NON DUCTED SUPPLY OR RETURN
    - S — SUCTION PIPING
    - L — LIQUID PIPING
  - INDICATES REVISION LEVEL.
  - INDICATES ROOM NUMBER.
  - FLOWS INCREASE OR DECREASE WITHIN THE LIMITS NOTED IN PROPORTION TO  
THE AMOUNT OF OUTSIDE AIR PROVIDED  
THROUGH MODULATING DAMPER 1-TAH-DP-337.
  - A/C UNITS NO. 93,94,95 & 96 ARE BACK UP UNITS TO MAIN A/C UNIT NO. 34  
AND NORMALLY DO NOT OPERATE. ROOM OCCUPANTS MAY ADJUST AIR FLOW  
AS REQUIRED.

6	3/29/12	JM	BCS	WYB	INCRP EC*145307
5	12/13/05	JM	BCS	JC	INCRP MMOD 05-513 DCN 00
4	2/5/04	BCS	JM	TWC	INCRP DCR 00009 REV. 03
3	5/7/99	DWS	BCS	HWM	INCRP MMOD 970618 DCN*00
2	12/19/95	MPW	HWM	CWL	INCRP MMOD 95-550 CA0
1	5/26/93	MRB	BCL	MPW	INCRP DCR 92-26 CA0
0	7/14/92	MPW	MRB	BCL	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY  
SEABROOK

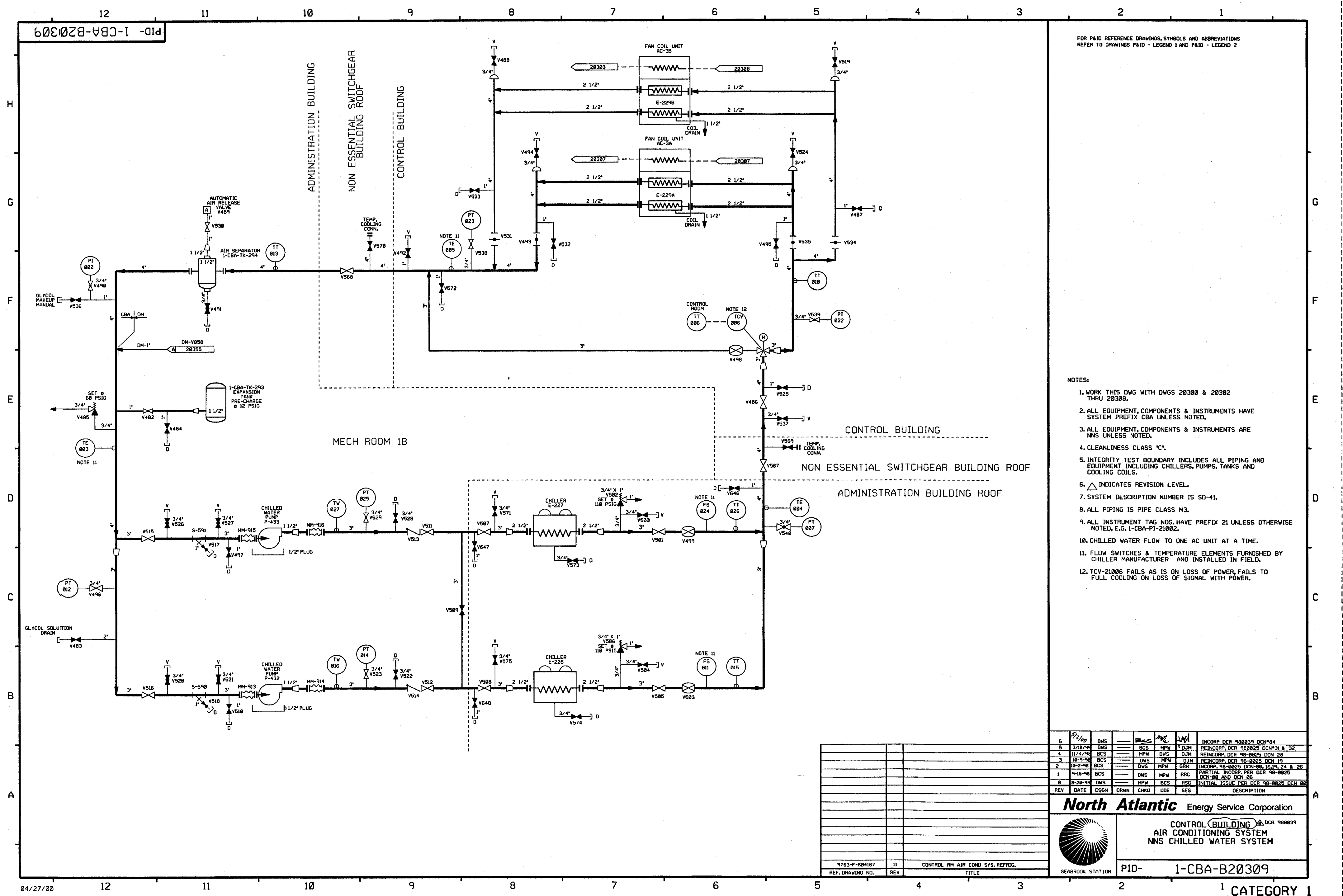


TURBINE BUILDING  
AIR HANDLING  
DETAIL

PID-1-TAH-B20172

9763-F-604164	11	TURBINE BLDG AIR & BATTERY RM VENT
REF. DRAWING NO.	REV	TITLE





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

- NOTES:
1. WORK THIS DWG WITH DWGS 20300 & 20302 THRU 20308.
  2. ALL EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CBA UNLESS NOTED.
  3. ALL EQUIPMENT, COMPONENTS & INSTRUMENTS ARE NNS UNLESS NOTED.
  4. CLEANLINESS CLASS 'C'.
  5. INTEGRITY TEST BOUNDARY INCLUDES ALL PIPING AND EQUIPMENT INCLUDING CHILLERS, PUMPS, TANKS AND COOLING COILS.
  6.  $\Delta$  INDICATES REVISION LEVEL.
  7. SYSTEM DESCRIPTION NUMBER IS SD-41.
  8. ALL PIPING IS PIPE CLASS M3.
  9. ALL INSTRUMENT TAG NOS. HAVE PREFIX 21 UNLESS OTHERWISE NOTED, E.G. 1-CBA-PI-21002.
  10. CHILLED WATER FLOW TO ONE AC UNIT AT A TIME.
  11. FLOW SWITCHES & TEMPERATURE ELEMENTS FURNISHED BY CHILLER MANUFACTURER AND INSTALLED IN FIELD.
  12. TCV-21006 FAILS AS IS ON LOSS OF POWER, FAILS TO FULL COOLING ON LOSS OF SIGNAL WITH POWER.

6	5/1/00	DWS	BCS	MPW	DJM	INCCORP DCR 980039 DCN#24
5	3/10/99	DWS	BCS	MPW	DJM	REINCCORP DCR 980025 DCN#31 & 32
4	11/4/98	BCS	MPW	DWS	DJM	REINCCORP DCR 98-0025 DCN 28
3	10-4-98	BCS	DWS	MPW	DJM	REINCCORP DCR 98-0025 DCN 19
2	10-2-98	BCS	DWS	MPW	DJM	INCCORP 98-0025 DCN-00, 16, 19, 24 & 26
1	9-15-98	BCS	DWS	MPW	RRC	PARTIAL INCCORP PER DCR 98-0025 DCN-00 AND DCN 06
0	8-29-98	DWS	MPW	BCS	RSG	INITIAL ISSUE PER DCR 98-0025 DCN 00
REV	DATE	DSGN	DRWN	CHKD	CDE	SES

**North Atlantic** Energy Service Corporation

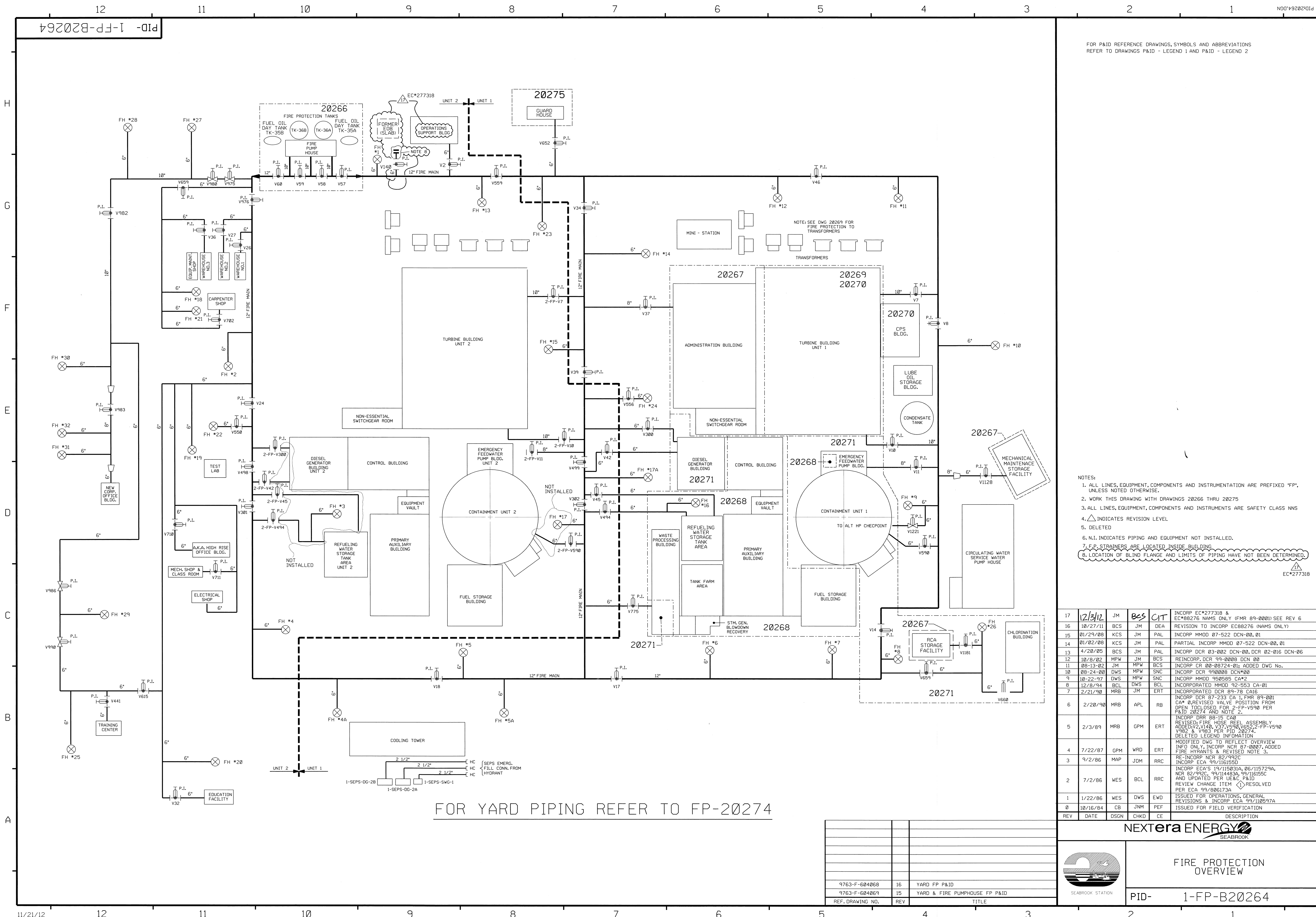
SEABROOK STATION

CONTROL BUILDING  
AIR CONDITIONING SYSTEM  
NNS CHILLED WATER SYSTEM

DCR 980039

PID- 1-CBA-B20309

9763-F-504167	II	CONTROL RM AIR COND SYS, REFRIG.
REF. DRAWING NO.	REV	TITLE



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

- NOTES:
- 1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED "FP", UNLESS NOTED OTHERWISE.
  - 2. WORK THIS DRAWING WITH DRAWINGS 20266 THRU 20275
  - 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS
  - 4.  $\Delta$  INDICATES REVISION LEVEL
  - 5. DELETED
  - 6. N.I. INDICATES PIPING AND EQUIPMENT NOT INSTALLED.
  - 7. F.P. STRAINERS ARE LOCATED INSIDE BUILDING
  - 8. LOCATION OF BLIND FLANGE AND LIMITS OF PIPING HAVE NOT BEEN DETERMINED.

17	12/3/12	JM	BES	CIT	INCORP EC*277318 & EC*86276 NAMS ONLY (FMR 89-0001) SEE REV 6
16	10/27/11	BCS	JM	DEA	REVISION TO INCORP EC86276 (NAMS ONLY)
15	01/29/08	KCS	JM	PAL	INCORP MMD 07-522 DCN-00, 01
14	01/02/08	KCS	JM	PAL	PARTIAL INCORP MMD 07-522 DCN-00, 01
13	4/20/05	BCS	JM	PAL	INCORP DCR 03-002 DCN-00, DCR 02-016 DCN-06
12	10/8/02	MPW	JM	BCS	REINCORP. DCR 99-0008 DCN 00
11	08-13-02	JM	MPW	BCS	INCORP CR 00-08724-01; ADDED DWG No.
10	08-24-00	DWS	MPW	SNC	INCORP DCR 990008 DCN*00
9	10-22-97	DWS	MPW	SNC	INCORP MMD 950985 CA*2
8	12/8/94	BCL	DWS	BCL	INCORPORATED MMD 92-553 CA-01
7	2/21/90	MRB	JM	ERT	INCORPORATED DCR 89-78 CA16
6	2/20/90	MRB	APL	RB	INCORP DCR 87-233 CA 1, FMR 89-001 CA* 0, REVISED VALVE POSITION FROM OPEN TO CLOSED FOR 2-FP-V530 PER P&ID 20274 AND NOTE 2.
5	2/3/89	MRB	GPM	ERT	INCORP DRR 88-15 CA0 REVISED FIRE HOSE REEL ASSEMBLY ADDED V2, V140, V37, V590, V552, 2-FP-V590 V592 & V993 PER P&ID 20274. DELETED LEGEND INFORMATION
4	7/22/87	GPM	WRD	ERT	MODIFIED DWG TO REFLECT OVERVIEW INFO ONLY, INCORP NCR 87-0007, ADDED FIRE HYDRANTS & REVISED NOTE 3.
3	9/2/86	MAP	JDM	RRC	RE-INCORP NCR 82/992C INCORP ECA 99/116155D
2	7/2/86	WES	BCL	RRC	INCORP ECA'S 19/115031A, 06/115729A, NCR 82/992C, 99/114483A, 99/116155C AND UPDATED PER UE&C P&ID REVIEW CHANGE ITEM $\Delta$ RESOLVED PER ECA 99/806173A
1	1/22/86	WES	DWS	EWD	ISSUED FOR OPERATIONS, GENERAL REVISIONS & INCORP ECA 99/110597A
0	10/16/84	CB	JNM	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY  
SEABROOK



FIRE PROTECTION  
OVERVIEW


PID- 1-FP-B20264

763-F-604068	16	YARD FP P&ID
763-F-604069	15	YARD & FIRE PUMPHOUSE FP P&ID
REF. DRAWING NO.	REV	TITLE

FOR YARD PIPING REFER TO FP-20274

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

NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX FP, UNLESS NOTED OTHERWISE.
2. DELETED
3. DELETED
4. STANDPIPE SYSTEM WITHIN CONTAINMENT SHALL BE DRAINED PRIOR TO OPERATION UNIT VALVE MUST BE CLOSED IN MODE 1,2,3,4 AND CAN BE OPENED IN MODE 5, UNLESS NOTED OTHERWISE.
6. SEE DETAIL A, DWG. 20272.
7. SEE DETAIL B, DWG. 20272.
8. SEE DETAIL C, DWG. 20272.
9.  INDICATES REVISION LEVEL.
10. DELETED
11. DELETED
12. DELETED
13. DELETED
14. DELETED

PORTIONS OF THIS DRAWING ARE

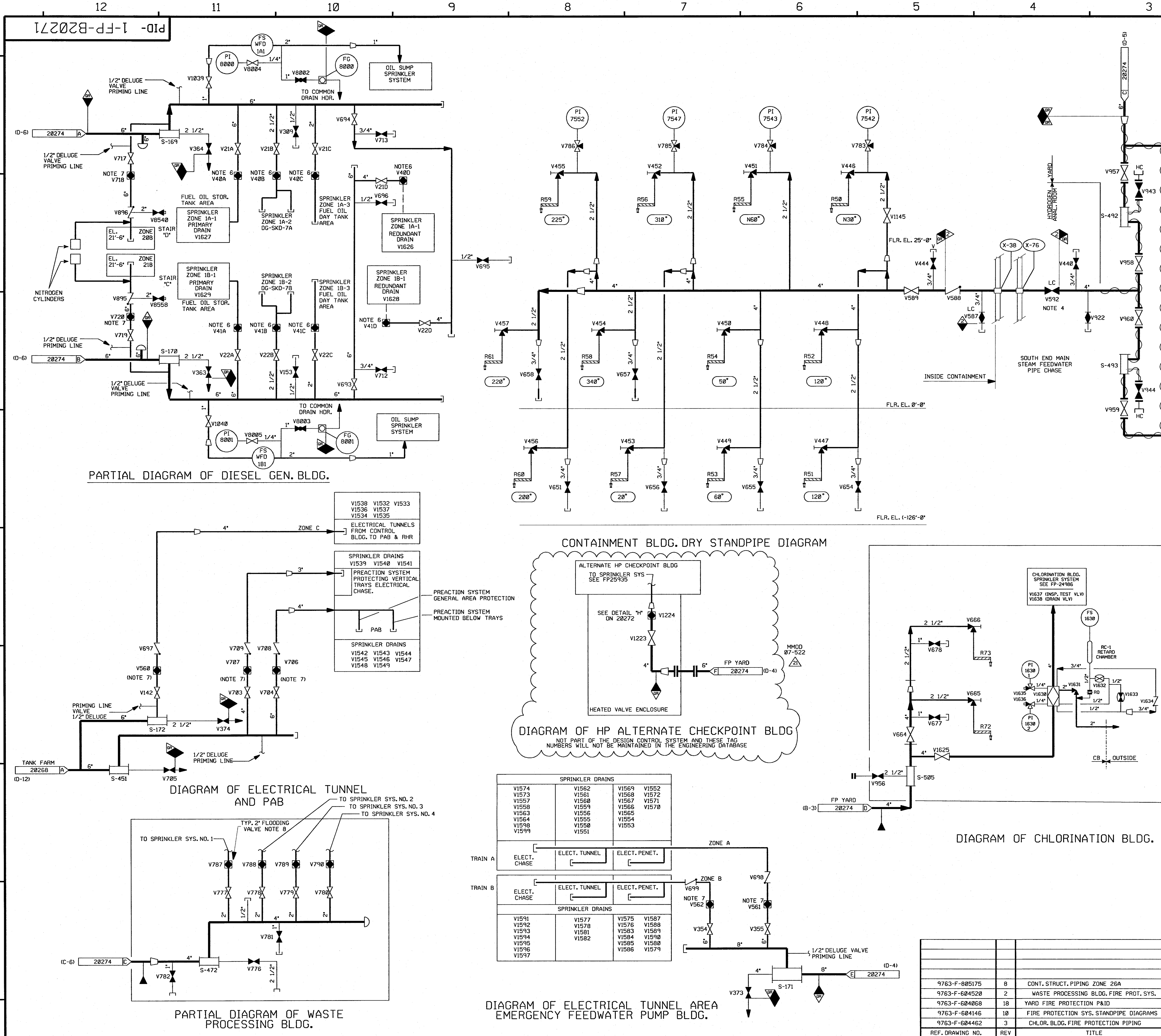
<b>NUCLEAR SAFETY RELATED</b>
-------------------------------

21	11/4/03	KCS	JM	022	INCORP MMOD-07-522, DCN-00 & 01	
20	10/02/06	BSCS	JM	SPQ	INCORP DCR 99-13, DCN-00	
19	3/16/06	BCS	JM	DMF	INCORP DCR 99-13, DCN-00 (PARTIAL)	
18	8/28/03	BCS	MPW	ERT	RE-INCORP ECA 99/1482A	
17	7/30/03	BCS	JM	MPW	RE-INCORP ECA 99/1482A	
16	1/17/02	BCS	JM	ERT	INCORP DCR 00-0004 DCN-00, 002	
15	8/31/00	BSCS	MPW	AJK	INCORP MSE 99-328 REV. 0, ECA 99/1482A	
14	6/2/98	DRL	MPW	VVS	INCORP MMOD 96-555 DCN 02 & MMOD 97-521 DCN 00	
13	8/18/97	MPW	BSCS	VVS	INCORP MMOD 96-550 DCN 01	
12	6/7/97	MPW	DWS	BAB	INCORP DCR 96-31 DCN*02	
11	3/26/94	DWS	BCL	JCM	INCORP DCR 920012 CA*0	
10	4/17/92	MRB	DWS	RRB	INCORP MMOD 91-515 CA0	
9	10/25/90	MRB	JM	ERT	INCORP DRR 89-41 REV 1 DELETED OPEN ITEM ABOVE AND NOTES 11 & 13 PER REVISED NOTE 3 ADDED FLOW SWITCHES PER RES 88-427	
8	6/23/89	MRB	PAL	ERT FOR RB	INCORPORATED DRR 89-41 REV 0 DELETED FIRE HOSE LEGEND	
7	10/7/88	GPM	APL	ERT	INCORP DCR 86-715 CA 02 ADDED NOTE 14	
6	5/16/88	DWS	GPM	ERT	ADDED CHANGE ITEM-2 REVISED VALVE NO'S FROM V8006, 7 TO V8540, 58, DELETED WNS-1 DESIGNATION	
5	9/8/87	GPM	MRJ	ERT	INCORP DCR 87-270 REVISED: NOTE 5, CONT DWG NO. ADDED NOTE 13, CHANGE ITEM 1, DR BOUNDARIES.	
4	12/30/86	MPW	WRD	DCM	ADDED WP8 SPRINKLER SYS. NO'S, PER FP-46830, REVISED DWG. CONTIN. REF'S REMOVED SPRINKLERS FOR CABLE SPREADING AREA, ADDED NOTES 11 & 12, AND REDREW ELEC. TUNNEL AND PAR PER ENG. COMMENTS CORRECTED DRAFTING ERRORS.	
3	9/2/86	MAP	PAL	RRR	ADDED VLV'S V8006, V8007 PER GRINNEL MANUAL, CONT. REF. LOCATIONS. CHANGED VALVE V587 FROM Gate to PLUG and ADDED CAP PER ERECTION ISO. DELETED NOTE 10.	
2	6/27/86	JDM	BCL	RRC	INCORP ECA 03/114381A, 99/116733A INCORP NCR 82/992C, ECA 99/109018B APPROVED CHANGE ITEM NUMBERS 2,3,4,5 BY DETAILING VENDOR PIPING ADDED VALVE NOS. & PT. NOS.	
1	1/22/86	WES	DWS	EWD	ISSUED FOR OPERATIONS GENERAL REVISIONS	
0	10/16/84	CB	JNM	PE	ISSUED FOR FIELD VERIFICATION	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION	

**FPL ENERGY** Seabrook Station

## FIRE PROTECTION DETAILS

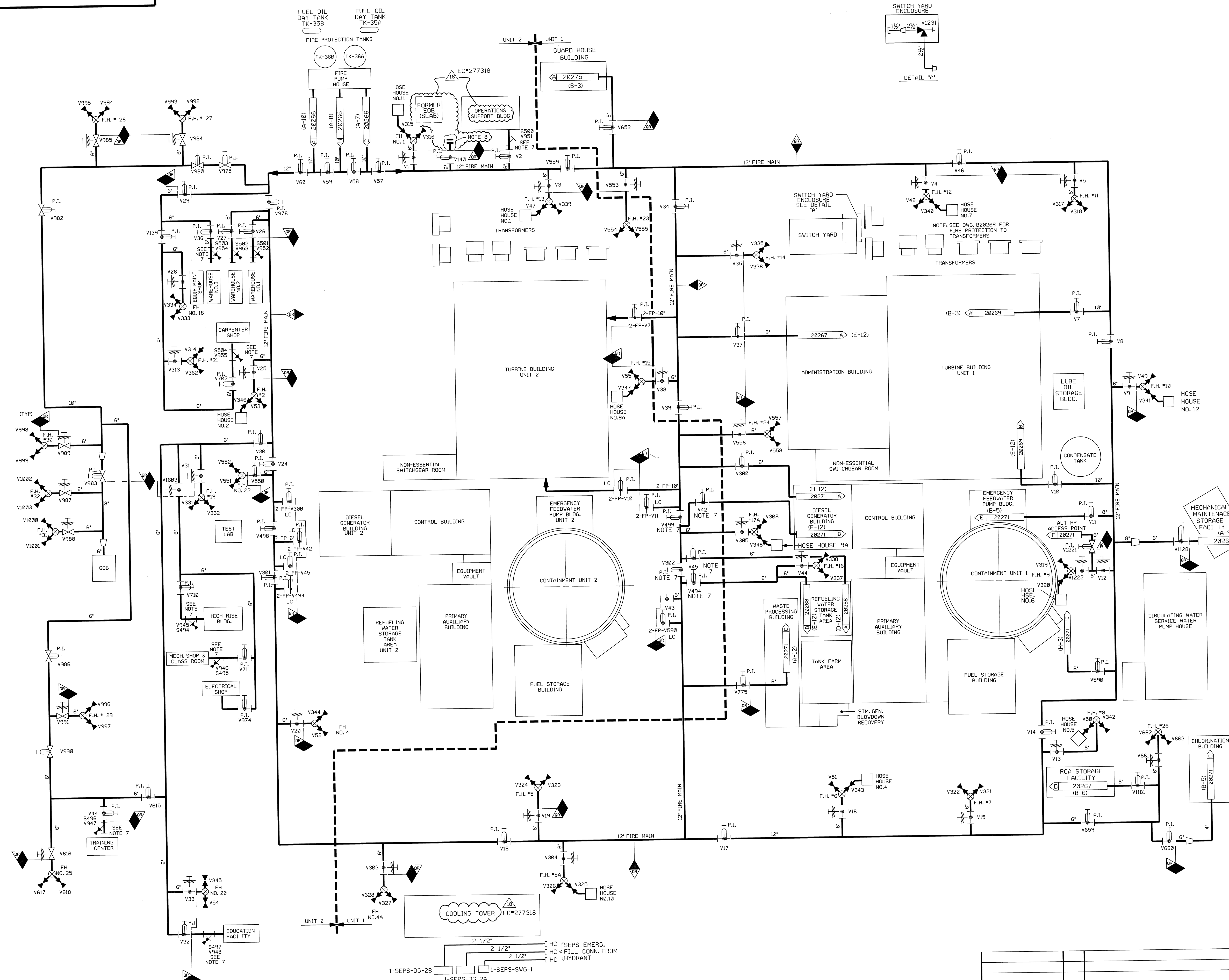
PID- 1-FP-B20271





PID-1-FP-B20274

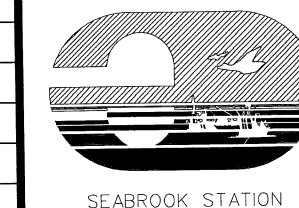
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED "FP", UNLESS NOTED OTHERWISE.
  2. WORK THIS DRAWING WITH DRAWINGS 20264, 20266 THRU 20275.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS
  4.  $\Delta$  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.
  8. LOCATION OF BLIND FLANGE AND LIMITS OF PIPING HAVE NOT BEEN DETERMINED.

EC\*277318

18	12/3/12	JM	BCS	CIT	INCCP EC*277318 & EC*98276 NAMS ONLY (FMR 89-000) SEE REV 3
17	10/27/11	BCS	JM	DEA	REVISION TO INCCP EC88276 (NAMS ONLY)
16	9/14/09	BCS	JM	RTS	INCCP EC 12734
15	01/29/08	KCS	JM	PAL	INCCP MM00 07-522 DCN 00, 01
14	01/02/08	KCS	JM	PAL	PARTIAL INCCP MM00 07-522 DCN 00, 01
13	9/22/05	BCS	JM	RRB	INCCP DCR 03-002 DCN-00
12	5/8/02	MPW	JM	RRB	INCCP MSE 02-074 REV.00
11	6/22/00	DWS	MPW	JNE	INCCP DCR 99-008 DCN*00 & 05
10	6/2/98	DRL	BCS	VWS	INCCP MM00 97-521 DCN 00
9	10/22/97	DWS	MPW	SNC	INCCP MM00 950585 CA* 02
8	3/4/94	MRB	BCL	GRM	INCCP MM00 92-553 CA01
7	3/31/93	MRB	BCL	JCM	INCCP MM00 92-553 CA00
6	4/21/92	MRB	BCL	JEV	INCCP MM00 91-515 CA0,01
5	12/21/90	MRB	RMC	ERT	INCCP DCR 89-78 CA 16
4	9/24/90	MRB	JM	BCL	INCCP MM00 90-516 CA 0
3	2/20/90	MRB	APL	RB	INCCP DCR 87-233 CA 1 & MM00 89-545 INCCP FMR 89-001 CA00 REVISED: OPERATOR VALVE SYMBOL, DWG CONT COORD'S AND NOTE 2, ADDED; DWG CONT NO & COORD.
2	2/3/89	MRB	GPM	ERT	INCORPORATED DRR 88-15, CA0 DELETED; LEGEND INFORMATION REVISED: F.H. NO 12 TO 22 PER UE & C DRAWING
1	9/8/87	GPM	MPW	ERT	INCCP ECA 99/1161950, REVISED: PIPING CONFIG PER NCR 87-0007, NOTE 3, ADDED; OR BOUNDARIES & CORRECTED DRAFTING ERRORS.
0	1-8-87	SHY	WRD	ERT	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



FIRE PROTECTION  
YARD PIPING

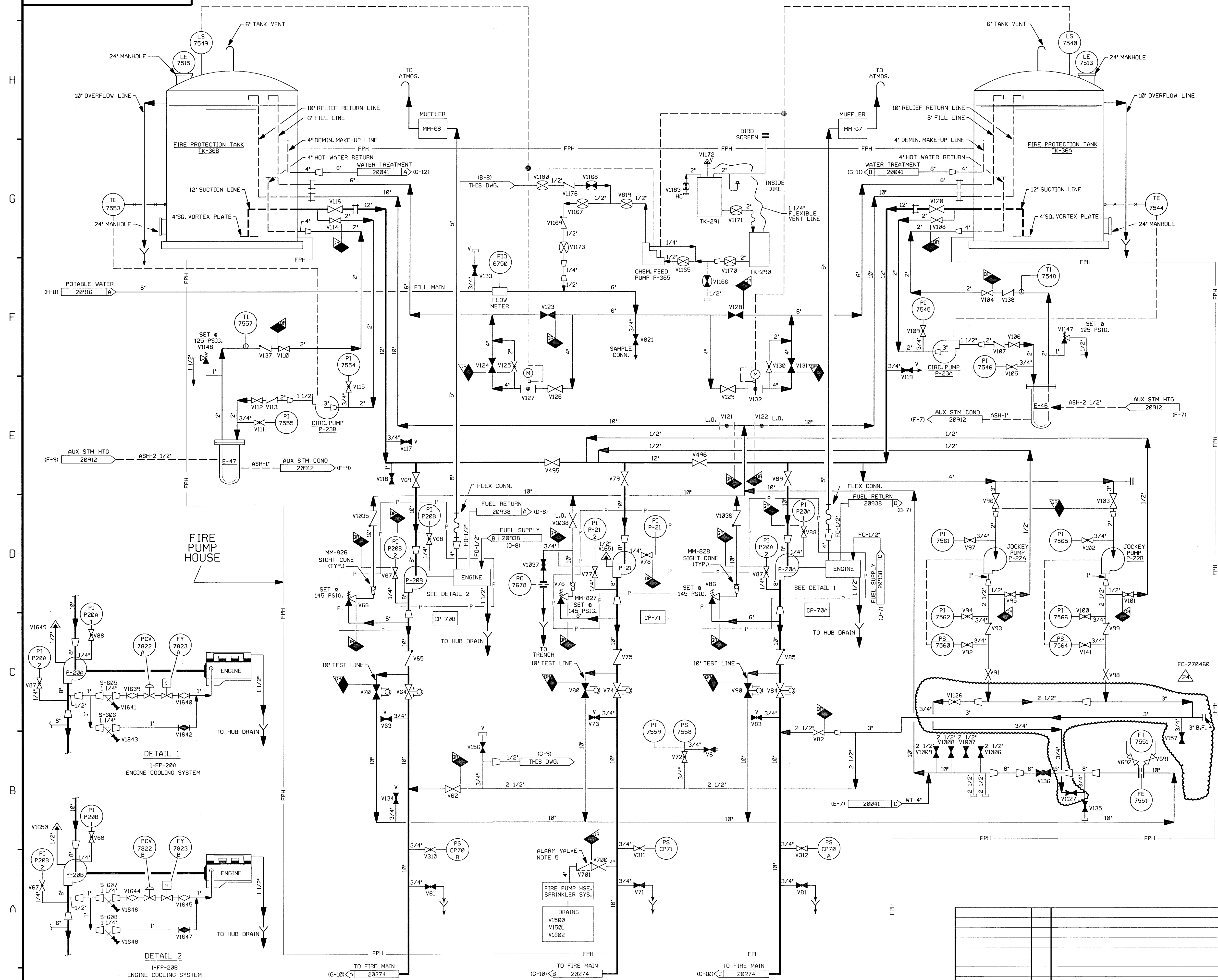
PID- 1-FP-B20274

REF. DRAWING NO.	REV	TITLE
9763-F-604068	16	YARD FP P&ID
9763-F-604069	15	YARD & FIRE PUMPHOUSE FP P&ID



PID- 1-FP-B20266

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

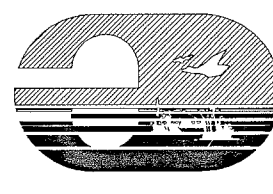


NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYS. PREFIX FP, UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 20264 AND 20267 THRU 20272.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
4. DELETED
5. SEE DETAIL "D" DWG. 20272.
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.

24	1/4/11	GPS	IM	CIC	INCORP. EC-270468
23	10/22/07	BCS	JM	RPC	INCORP.MMOD 07-505 DCN-00
22	12/30/03	BCL	JM	RRB	INCORP. CR 02-13172 REV 00
21	6/11/03	JM	BCS	MPW	INCORP. CR 03-00775 REV 00
20	8/13/02	JM	MPW	BCS	INCORP. CR* 00-02311-01
19	10/15/01	JM	BCS	JCM	INCORP. CR* 01-04266-01
18	5/26/00	BCS	MPW	JCM	INCORP. DCR 98-24 DCN 10
17	4/28/00	BCS	MPW	JCM	INCORP. DCR 98-24 DCN 00, 02, 03, 07
16	2/23/00	BCS	DWS	JCM	PARTIAL INCORP. DCR 98-24 DCN 00
15	1/28/99	BCS	DWS	JCM	INCORP. MMOD 98-634 DCN 00
14	10/30/98	MPW	BCS	DJM	INCORP. MMOD 97-534 DCN 00
13	11/25/97	BCS	MRB	ETJ	INCORP. DCR 97-23 DCN-00
12	5/2/96	BCS	DWS	JCM	INCORP. DCR 95-18 CA-0
11	3/5/95	BCL	MPW	JCM	INCORP. MMOD 94-514 CA-0
10	3/8/94	MRB	BEL	GRM	INCORP. DCR 92-553 CA01 & MMOD 93-553 CA-0
9	12/13/93	MRB	BCL	RCG	INCORP. DCR 86-140 CA 04
8	11/1/93	BCL	DWS	JCM	INCORP. MMOD 93-501 CA-0
7	10/25/90	MRB	JM	ERT	INCORP. DRR 89-41 REV 01
6	5/22/89	GPM	MRB	ERT For- RB	INCORP. DCR 86-325 CA 01 & DRR 89-41 REVISED: PIPING TO CLARIFY DUPLICATION OF SYSTEM INTERFACES ADDED: CONT. COORDS. DELETED: NOTE 4 AND ITEM IN THE ILL.
5	8/28/87	GPM	MRJ	ERT	REVISED NOTE 3, ADDED NOTE 8 & 9, OR BOUNDARIES DELETED NOTE 10.
4	04/08/87	MRJ	DWS	ERT	ADDED VALVES PER AS-INSTALLED CONDITIONS, REVISED SYMBOL FOR CHAIN OPERATED VALVES.
3	10/17/86	MPW	BCL	RRR	ADDED CONT. REF LOCATIONS, DELETED NOTE 2, REVISED INSTR. LOCATION PER PRECISION ISO, VALVE NOS PER USEC PAID, CORRECTED DRAFTING ERRORS INST. CATED 99-1163334 & DR 95/0068 IN ILL.
2	6/24/86	DWS	VNK	RRR	CHANGE ITEMS 1,2,3,4,6 & 7 RESOLVED PER ISA 19116414, 99-1141524, DR 95/0063, CR-02, ADDED FUEL OIL CONT. & REV'D PW CONT.
1	1/22/86	WES	DWS	EWD	ISSUED FOR OPERATIONS, GENERAL REVISIONS INCORPORATED ECRS 99-17638, 99-02708 06/10/010E
0	10/16/84	CB	JNM	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

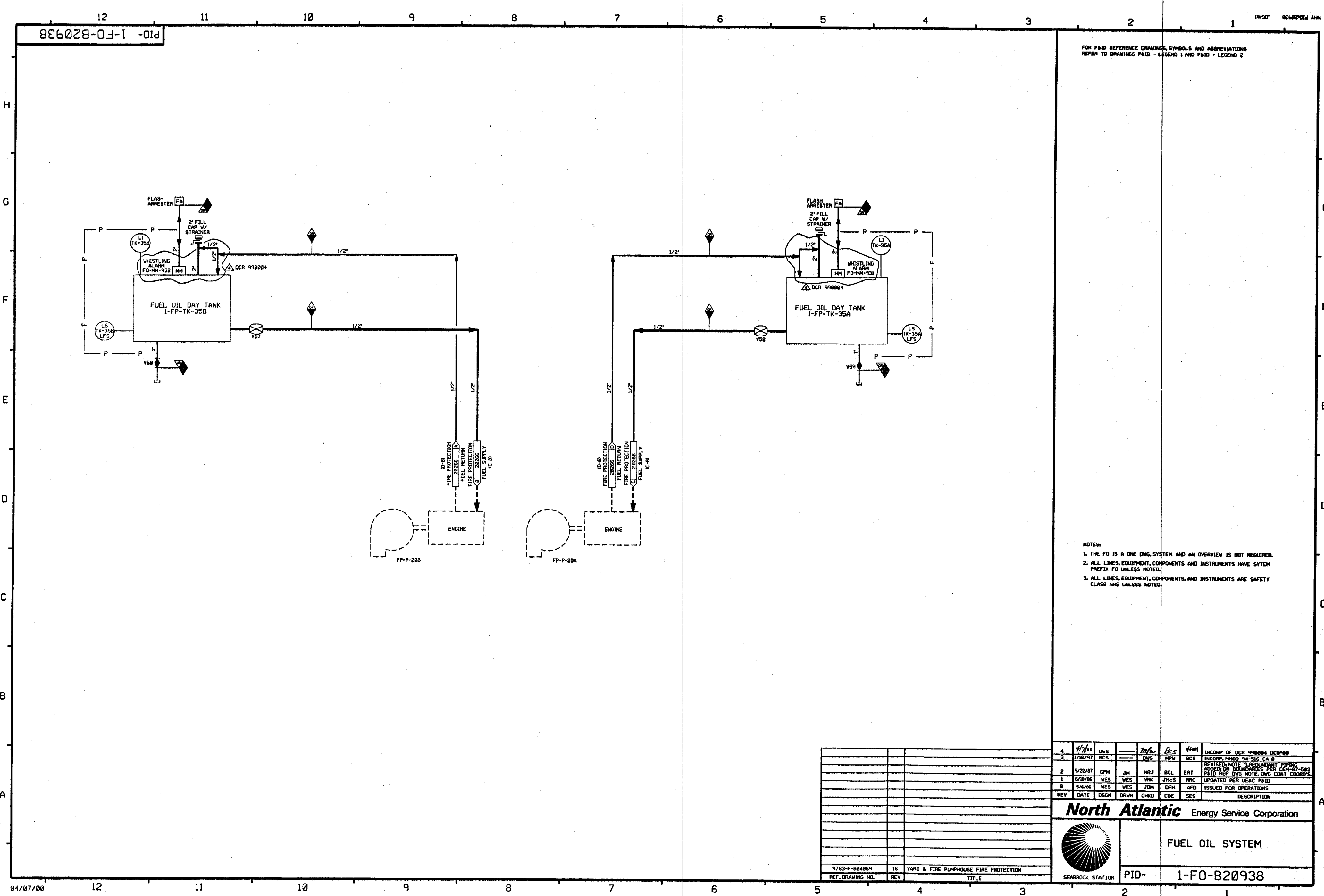
**NEXTERA ENERGY**   
SEABROOK



FIRE PROTECTION  
FIRE PUMP HOUSE  
DETAIL

PID- 1-FP-B2026E

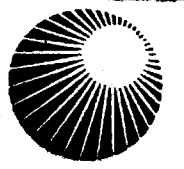
9763-F-604069	18	YARD & FIRE PUMP HOUSE PIPING DIAGRAM
REF. DRAWING NO.	REV	TITLE



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

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

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
4	4/7/00	DWS		M/W	R/S	Yoon	INCRP OF DER 990004 DCM#00
3	1/16/97	BCS		DWS	NPM	BCS	INCRP, MMD 54-516 CA-8
2	9/22/87	GPM	JM	MRJ	BCL	ERT	REVISED NOTE 3 REDUNDANT PIPING ADDED IN BOUNDARIES PER C&P-87-503
1	6/18/86	WES	WES	WVK	JMC	RRC	P&ID REF DNG NOTE, DNG CONT. COORDS.
0	3/4/86	WES	JDM	DFM	AFD		ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION



**North Atlantic**  
Energy Service Corporation

FUEL OIL SYSTEM

PID-1-F0-B20938

9763-F-604069	16	YARD & FIRE PUMPHOUSE FIRE PROTECTION
REF. DRAWING NO.	REV	TITLE

NOTES:

1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED "F", UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 20264, 20266, 20267, 20268, 20270, 20271 THRU 20274.
3. DELETED
4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
5. SEE DETAILS ON PID PP-20272.
6.  INDICATES REVISION LEVEL.
7. DELETED
8. DELETED
9.  INDICATES DWG. CHANGE ITEM NUMBER.
10. VENT, DRAIN & INSTRUMENT TAPS OR BOUNDARY ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE.
12. SEE DETAIL "F" ON DWG 20272.

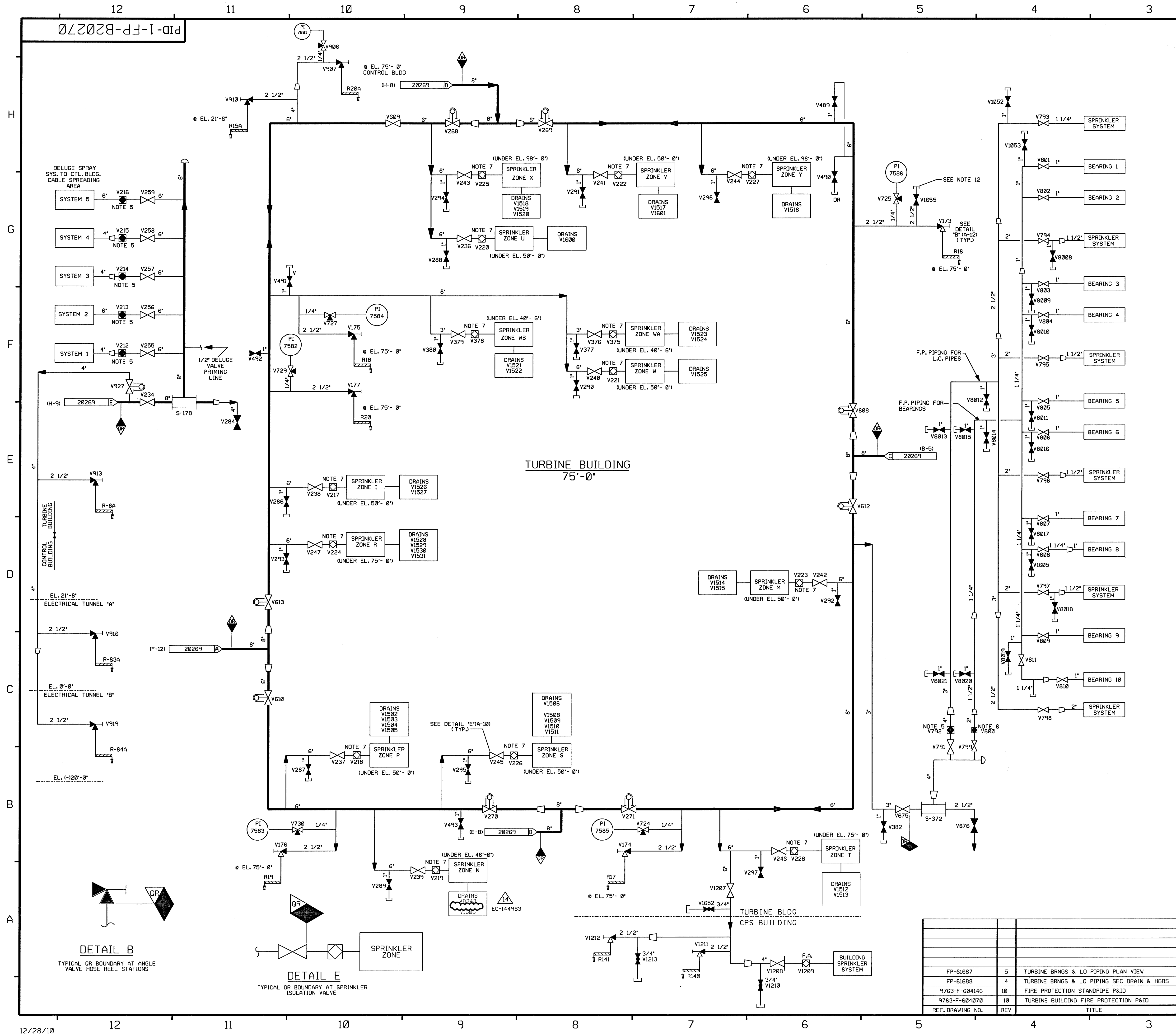
**FPL ENERGY** Seabrook Station

FIRE PROTECTION  
TURBINE BUILDING  
DETAIL  
SHEET 1 OF 2

PID- 1-FP-B20269

9763-F-604878	10	TURBINE BLDG FIRE PROTECTION P&ID	
REF. DRAWING NO.	REV	TITLE	





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

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED 'FP', UNLESS NOTED OTHERWISE.
  2. WORK THIS DRAWING WITH DRAWINGS 20264, 20265 THRU 20269, 20271 THRU 20274
  3. DELETED.
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
  5. SEE DETAIL 'A' DWG. 20272.
  6. SEE DETAIL 'C' DWG. 20272.
  7. SEE DETAIL 'D' DWG. 20272.
  8. INDICATES REVISION LEVEL.
  9. DELETED
  10. INDICATES DRAWING CHANGE ITEM NUMBER.
  11. VENTS, DRAINS & INSTRUMENT TAPS OR BOUNDARY ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE.
  12. PIPE IS CAPPED WHEN NOT CONNECTED BY HOSE TO OFFICE TRAILER SPRINKLER SYSTEM BY STATION PROCEDURE.

14	6/1/12	GPS	JM	DM	INCORP EC-144983
13	11/06/06	BCS	JM	RRC	INCORP DCR 05-007 DCN-28
12	10/19/06	BCS	JM	RRB	INCORP DCR 05-007 DCN-00
11	4/21/06	JM	RRB	JMJ	INCORP MSE 05-194 REV. 00
10	3/16/06	BCS	JM	DMQ	INCORP DCR 99-13 DCN-00
9	4/26/05	BCS	GPS	PAL	INCORP DCR 02-0016 DCN-06 & 15.
8	9/16/04	BCS	JM	PAL	PARTIAL INCORP DCR 02-0016 DCN-06
7	6/9/99	DWS	RWS	DJM	INCORP MMDD 970618 DCN#00
6	4/20/92	MRB	DWS	JEV	INCORP MMDD 91-515 CA0
5	10/19/90	MRB	JM	ERT	INCORP DRR 89-41 REV. 01 DELETED NOTE 9 AND OPEN ITEM ABOVE PER REVISED NOTE 3
4	6/23/89	MRB	PAL	ERT	INCORPORATED DRR 89-41 REV. 0
3	9/8/87	MPW/GPM	MRJ	ERT	REVISED: VALVE NO. FROM V52 TO V1052, V53 TO V1053, NOTE 3 & 4. ADDED: DR BOUNDARIES, NOTE 10 & 11, CHANGE ITEM 1, DETAILS B & E AND CONT. COORD'S.
2	12/30/86	MAP	WRD	GPM	REVISED FLOW VALVE SYMBOL PER ENG. COMMENTS, CHAIN OPERATED SYMBOL PER P&ID LEGEND, ADDED ELEV. AND NOTE 9 CHANGED FLOW ALARM VALVE TO SPRINKLER VALVE.
1	1/22/86	WES	DWS	EWD	REVISED PER PIPING ERECTION ISO COMMENTS, CHAIN OPERATED SYMBOL PER P&ID LEGEND, ADDED ELEV. AND NOTE 9 CHANGED FLOW ALARM VALVE TO SPRINKLER VALVE.
0	10/16/84	CB	JNM	PEF	ISSUED FOR OPERATIONS GENERAL REVISIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

SEABROOK STATION

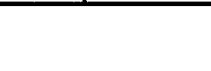

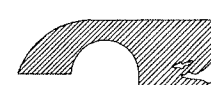
**FIRE PROTECTION**  
**TURBINE BUILDING**  
**DETAIL**  
**SHEET 2 OF 2**  
**PID- 1-FP-B20270**

REV	DATE	DSGN	CHKD	CE	TITLE
5					TURBINE BRNGS & LO PIPING PLAN VIEW
4					TURBINE BRNGS & LO PIPING SEC DRAIN & HGRS
10					FIRE PROTECTION STANDPIPE P&ID
10					TURBINE BUILDING FIRE PROTECTION P&ID
REV					TITLE

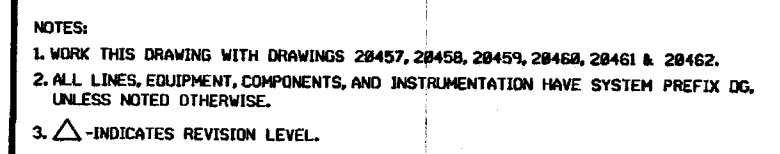




SE:  
ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED 'FP',  
UNLESS NOTED OTHERWISE.  
WORK THIS DRAWING WITH DRAWINGS 20264, 20266, 20267 & 20269 THRU 20275.  
ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS,  
UNLESS NOTED OTHERWISE.  
△ INDICATES REVISION LEVEL.  
DELETED  
DELETED  
VALVE 928 TO BE NORMALLY CLOSED DURING PERIODS OF FREEZING  
TEMP. HOSE RACK 31 IS DRY STANDPIPE DURING THESE PERIODS.  
VENTS, DRAINS, INSTRUMENT TAPS OR BOUNDARY ARE AT THE DOWNSTREAM  
END OF THE OUTER ISOLATION VALVE.  
CONNECTION FOR EMERGENCY MAKE-UP TO CST USING TEMPORARY HOSE  
(CO-20426 G-7)

			
		<p>FIRE PROTECTION STANDPIPE DETAIL</p>	
<p>SEABROOK STATION</p>		<p>PID- 1-FP-B20268</p>	





3	10/29/03	BCS	JM	P2B	ADMINISTRATIVE UPDATE
2	1/27/07	WDS	WRD	YWS	INCPORC, ECA 99/1265B, REVISED REF DWG NWS REVISIONS, DELETED "H" FROM DWG NWS IN NOTE 1, REVISED PER LATEST SYS. DWGS.
1	2/27/08	WAL	JDM	WFO	ISSUED FOR OPERATIONS: INCPORC, ECA 99/1265A
0	06/29/84	MNS	RSI	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

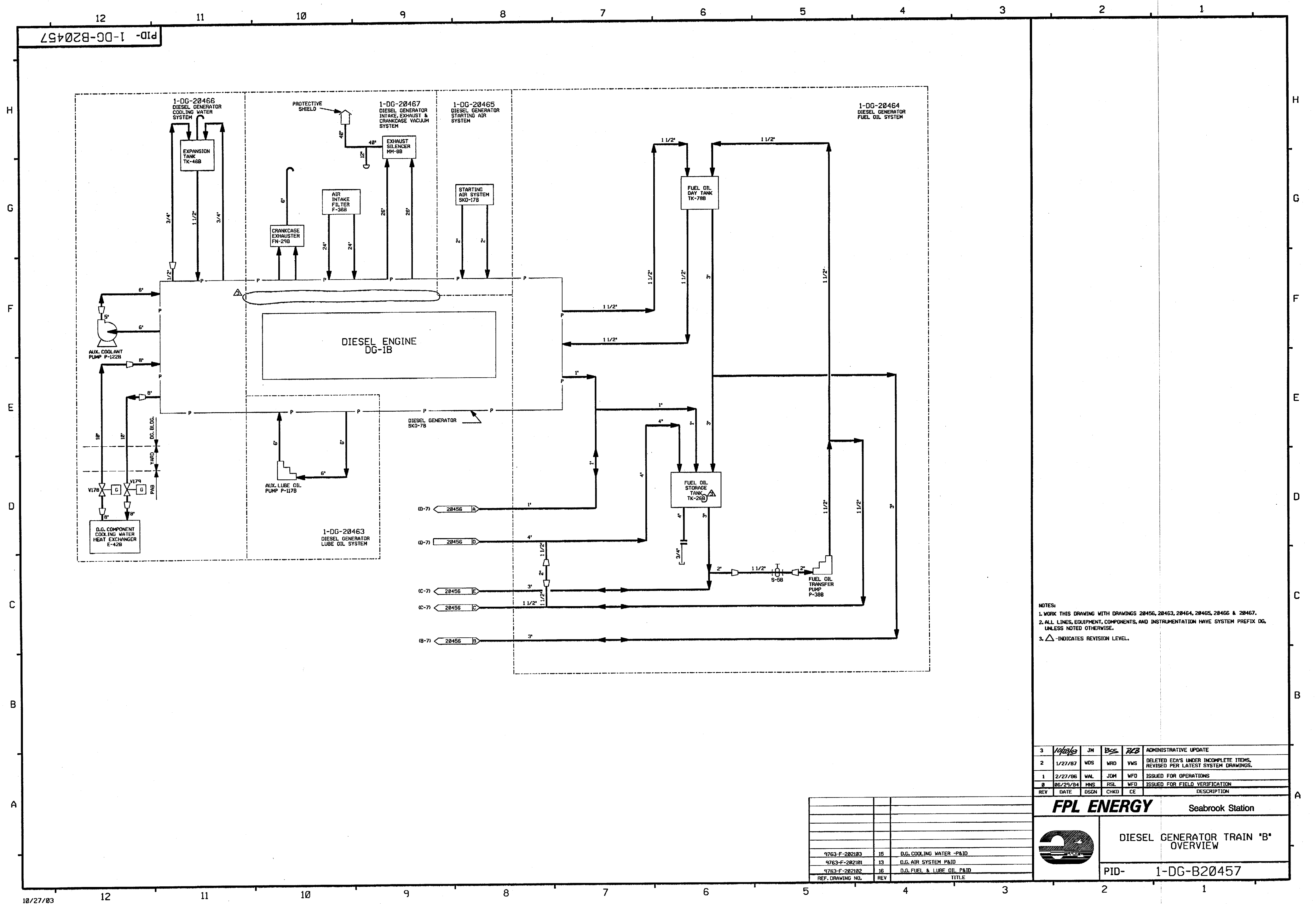
Seabrook Station



## DIESEL GENERATOR TRAIN "A"

PID- 1-DG-B20456

9763-F-282103	14	D.G. COOLING WATER	*PAID
9763-F-282101	13	D.G. AIR SYSTEM	PAID
9763-F-282102	16	D.G. FUEL & LUBE OIL	*PAID
REF. DRAWING NO.	REV	TITLE	

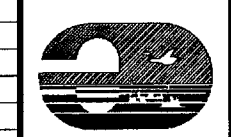


NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20463, 20464, 20465, 20466 & 20467.  
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.  
3.  $\Delta$  INDICATES REVISION LEVEL.

3	10/27/03	JM	BSS	RKB	ADMINISTRATIVE UPDATE
2	1/27/87	WDS	WRD	VMS	DELETED ECA'S UNDER INCOMPLETE ITEMS, REVISED PER LATEST SYSTEM DRAWINGS.
1	2/27/86	WAL	JOM	WFD	ISSUED FOR OPERATIONS
0	06/29/84	MNS	RSL	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

Seabrook Station



DIESEL GENERATOR TRAIN 'B'  
OVERVIEW

PID- 1-DG-B20457

9763-F-202103	15	D.G. COOLING WATER -P&ID
9763-F-202101	13	D.G. AIR SYSTEM P&ID
9763-F-202102	16	D.G. FUEL & LUBE OIL P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-DG-B20459

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

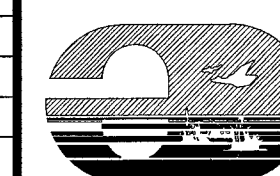
PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20458, 20460, 20461, 20462 & 20464.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
3. DELETED.
4. DELETED.
5.  $\Delta$  INDICATES REVISION LEVEL.
6. DELETED.
7. VENT, DRAINS AND TEST CONN. SAFETY CLASS AND CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.

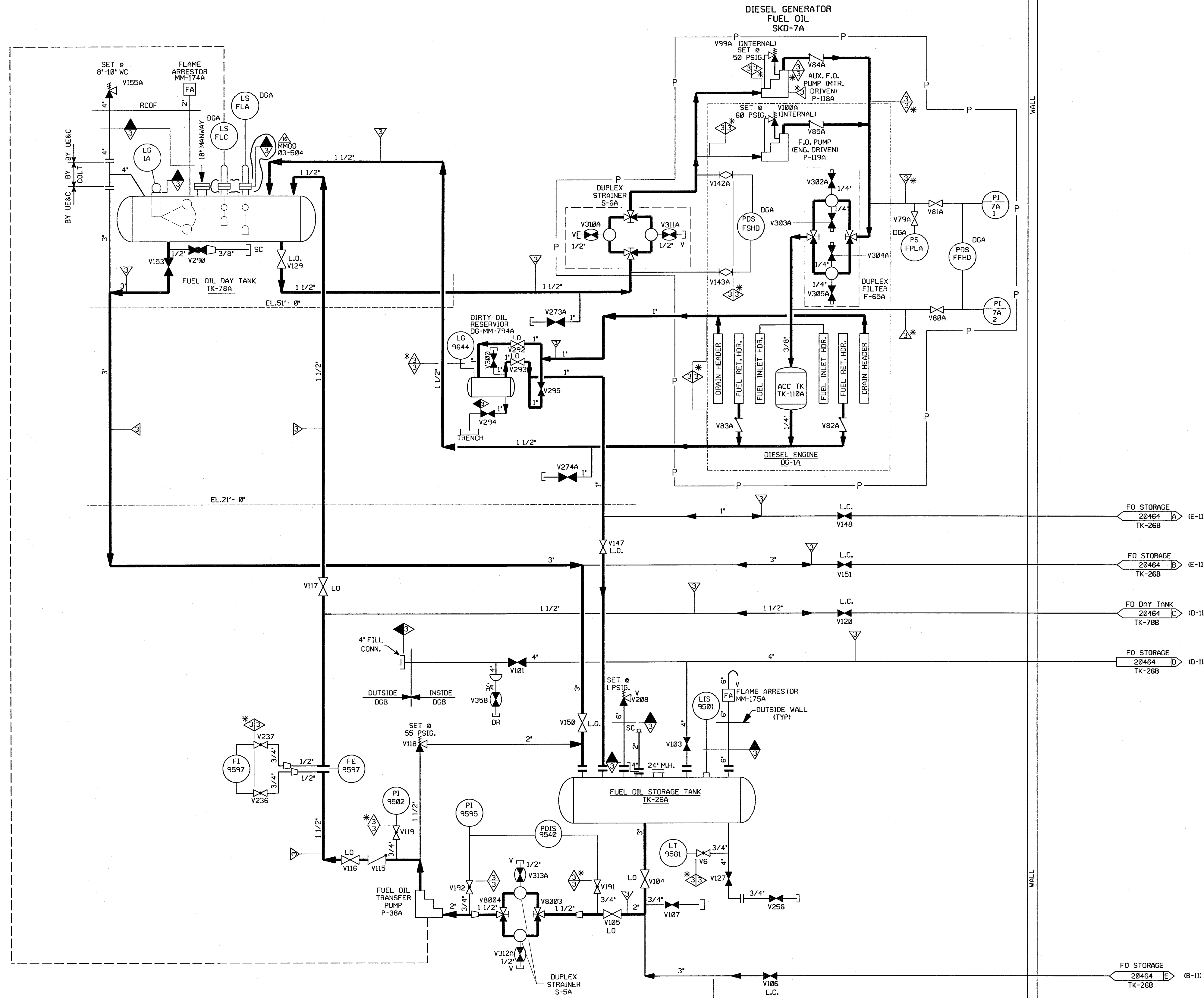
16	10-7-08	JM	Bas	JL	PARTIAL REINCORP MMOD 03-504 DCN 00
15	3/20/08	JM	BCS	JME	INCORP. MMOD 07-538 DCN 00 & MMOD 03-504 DCN 00
14	9/8/00	BCS	MPW	MKC	INCORP. DCR 90-029 DCN-0
13	11/1/95	MPW	BCS	VWS	INCORP. MMOD 96-550 CA0
12	11/1/95	BCL	MPW	RSB	INCORP. DCR 94-12 CA-0, 01 & MMOD 95-583 CA-0
11	5/27/94	MRB	JCM	GRM	INCORP. MMOD 92-546 CA0 & DCR 90-029 CA0
10	7/23/92	MRB	BCL	DJM	INCORP. DCR 90-013 CA5
9	5/26/92	MRB	BCL	DJM	PARTIAL INCORP. DCR 90-013 CA0
8	4/20/92	MRB	BCL	RRB	INCORP. MMOD 91-515 CA0
7	8/24/91	MRB	JM	RRC	INCORP. DCR 90-49 CA0 ADDED SYSTEM & TRAIN DESIGNATION PER 1-NHY-805337 & 506399
6	8/14/89	MRB	APL	MAC	INCORP. DCR 89-33 CA 03 DELETED CODE BREAKS PER NOTE 7.
5	1/7/87	MRJ	WRD	RRC	CORRECTED TAG NO. OF TK-26 REVISED DUPLEX STRAINER APP'T. PER NCR 82/10868, REV'D CODE FLAG PER SBP-86-875, CORRECTED DRAFTING ERROR, ADDED REF. DWGS.
4	10/3/86	MAP	JDM	RRC	ADDED CONT. COORDINATES, REVISED PER PIPING ERECTION ISO'S ADDED CODE BREAKS, REVISED LG-1A IN ERROR, DELETED "B" DESIGNATION IN NOTE 1 INCORP. NCR 73/35A
3	6/24/86	WAL	BCL	RRC	INCORP. ECA'S 99/112651/0 & 00/1101730
2	2/27/86	WAL	JDM	WFO	ISSUED FOR OPERATIONS & INCORP. ECA'S 99/112651A, 00/11331A
1	11/24/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	MNS	JNM	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY** Seabrook Station  
**DIESEL GENERATOR FUEL OIL SYSTEM TRAIN "A" DETAIL**



PID- 1-DG-B20459

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
FP 20669	9	EMERG. DIESEL GEN. JACKET WTR. EXP. TANK			
FP 21070	9	EMERG. DIESEL GEN. FUEL OIL DAY TANK			
9763-F-202102	16	DG FUEL & LUBE OIL P&I DIAGRAM			
REF. DRAWING NO.	REV	TITLE			



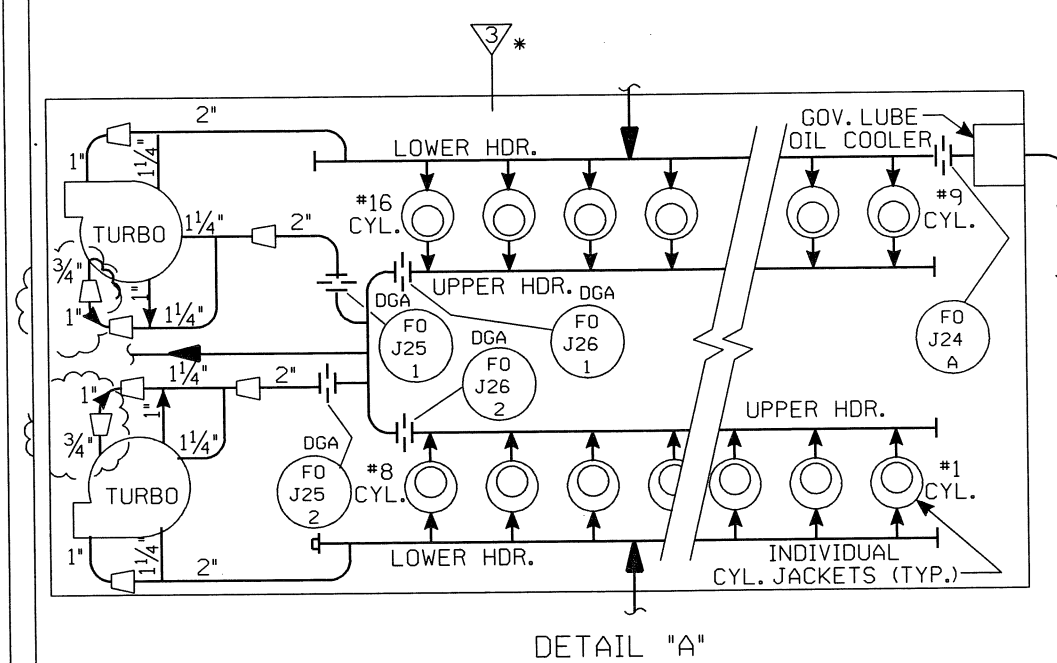


PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

18	10-9-08	BCS	JWL	ML	INCRP. MM0D 03-584 DCN 00
17	7/27/02	BCS	MPW	MVC	INCRDP. DCR 90-029 DCN-00
16	10/30/96	MPW	BCS	WKS	INCRP. MM0D 96-550 CA0
15	11/1/95	BCL	MPW	RSQ	INCRDP. DCR 94-12 CA-0, 01 & MM0D 95-583 CA-0
14	5/9/94	MPW	BCL	GRM	BACKED OUT DCR 90-029
13	5/8/94	MRB	MPW	RRB	INCRP. MM0D 92-546 CA0 & DCR 90-029 CA0
12	7/9/92	MRB	MPW	DJM	INCRDP. DCR 90-013 CA5
11	5/26/92	MRB	BCL	DJM	PARTIAL INCRDP. DCR 90-013 CA0
10	4/13/92	MRB	DWS	JEV	INCRP. MM0D-91-515 CA0
9	9/6/91	MRB	JM	RRC	INCRDP. DCR 90-49 CA0
8	6/28/91	MRB	DSB	APL	ISSUED TO CORRECT ADMINISTRATIVE ERROR
7	11/20/89	MRB	APL	GRM	INCORPORATED DCR 89-33 CA 03
6	6/14/88	GPM	APL	DJM	INCRP. 87-313 REVISED; NOTE 6 DELETED; NMS-1 CLASS BOUNDARY
5	12/22/86	MRJ	WRD	RRC	CORRECTED TAG, NO. OF TK-26, REVISED DUPLICATION ARRGT, PER NCR 827/10858, REVISED CODE FLAG PER SBP 96-076.
4	10/10/86	PAL	BCL	RRC	REVISED PER ECA 99/100101B, ECA 08/110138, NCR 73/350, ADDED NOTE 5, DWD CLASS LOC-FUNCTION PRINTS TO REV BLOCK- THE FOLLOWING CHANGES MADE: PER UE&C &ID, ADDED CLASS 3 FLAG TO 4 LINE, CLASS 3 NO TO TRIANGLE AND LINE NO. W/IDE WALL WAS SHOWN IN ERROR V225 CORRECTED FROM V225, FLANGE DLETED FROM SKID.
3	6/23/86	WAL	VNK	RRC	INCORPORATED ECA 98/1101738 & UPDATED PER LATEST P&ID.
2	2/27/86	WAL	JDM	WFD	ISSUED FOR OPERATIONS & INCORP. ECA 08/111339A
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	NMS	RSL	RWD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	AKSD	CF	DESCRIPTION

PID- 1-DG-B20464

FP 21070	9	EMERG DIESEL GEN FUEL OIL DAY TANK	
FP 20669	9	EMERG DIESEL GEN JACKET WTR EXP TANK	
9763-F-202102	16	D.G. FUEL & LUBE OIL P&I DIAGRAM	
REF. DRAWING NO.	REV	TITLE	



NOTES:

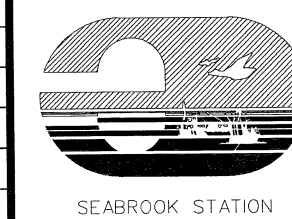
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20458, 20459, 20460, 20462 & 20466.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
3. DELETED
4. VENT & DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NHY-809111, UNLESS NOTED OTHERWISE.
5.  $\Delta$  INDICATES REVISION LEVEL.
6. THIS VALVE HAS BEEN STAKED IN A PRE-DETERMINED THROTTLED POSITION.

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

22	10/7/12	JM	BOS	DJM	INCORP EC*144992 AND EC*274318
21	12/8/11	JM	BOS	AJH	INCORP EC*156655
20	2/5/10	BOS	JM	CIC	INCORP EC*151114
19	11/16/06	JM	BOS	RRB	INCORP MMOD 03-504 DCN 00 & MSE 05-009 REV 00
18	10/15/03	BOS	MPW	RRB	INCORP MMOD 00-531 DCN-0
17	5/7/02	JM	MPW	DJM	INCORP; MSE 01-0009 REV 00 AND CR 00-13290
16	11/19/00	BOS	MPW	SPF	INCORP DCR 00-0026 DCN-00
15	6/2/98	DRL	BOS	VWS	INCORP MMOD 97-521 DCN 00
14	10/30/95	BCL	MPW	GRM	INCORP DCR 94012 CA#0, 01 & REINCRP_NCR 74/22/94
13	12/9/94	DWS	BCL	MMH	INCORP MMOD 930545 CA#0
12	5/27/94	BCL	MPW	GRM	INCORP MMOD 94-506 CA-0 & MMOD 92-546 CA-0
11	10/22/93	MRB	BCL	GRM	INCORP MMOD 92-546 CA-0 AND PARTIAL INCORP MMOD 92-546 CA-0
10	4/23/92	MRB	BCL	RRB	INCORP MMOD'S 91-515 CA-0 & 91-622 CA0
9	10/29/89	MRB	JM	BCL	INCORP MMOD 90-681 CA00
8	12/2/88	MRB	GPM	GRM	INCORPORATED DCR 88-122, CA0 REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED CLASS B'S & INTERFACES, DELETED: CLASS BREAK AND SYSTEM CLASS DESIGNATION.
7	8/31/88	GPM	APL	GRM	INCORP DCR 88-25 CA2 REVISED: NOTE 4 DELETED: NNS-1 CL BOUNDARY
6	3/6/87	MRJ	OPD	RRC	CORRECTED DRAFTING ERROR BY ADDING VALVE TAG NO.
5	2/10/87	JDM	MPW	VWS	REVISED SAFETY CLASS, PER MEMO SBP-86-876 YAC, REVISED CONFIG, PER FP 20568 & PP 22574, CORRECTED TAG NUMBER OF TI-9545 PER DISPOSITION OF CR 86/22A, CHANGED TI-9546 TO TI-9549 PER CAR 86/22A, CORRECTED CLASS BREAK SHOWN IN, DGA ADDED PER UESC P&ID, ADDED ADDED V271 & LINE NO. PER NCR 94/1382A RELOCATED FI-9542 & TI-9547 PER PIPING ERECTION ISO, ADDED CHANGE ITEM 1, PER CAR 86/22A, ADDED FOREIGN PRINT NUS & DMC COORDINATE LOCATIONS & NOTE 5.
4	10/10/86	PAL	BCL	RRC	REVISE SAFETY CLASS-ADD SPEC BREAKS
3	6/23/86	JDM/ BCL	VNK	RRC	REVISE VALVE POSITION INCORP. NCR-94/438028
2	2/27/86	WAL	JDM	WFO	ISSUED FOR OPERATIONS & INCORP. ECA 19/88648
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADMS
0	06/29/84	MKS	RSJ	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DCSN	CHKD	CF	DESCRIPTION

FP 21175	4	OG COOLANT BACKUP JW PMP. & MTR.OUTLINE
FP 20699	9	EMERG. OG SKID GEN. ARRGM'T
FP 21069	7	EFWP PUMP ASSEMBLY
9763-F-202103	14	DIESEL GENERATOR COOLING WATER - P&ID
REF. DRAWING NO.	REV	TITLE

**NEXTERA ENERGY**   
SEABROOK

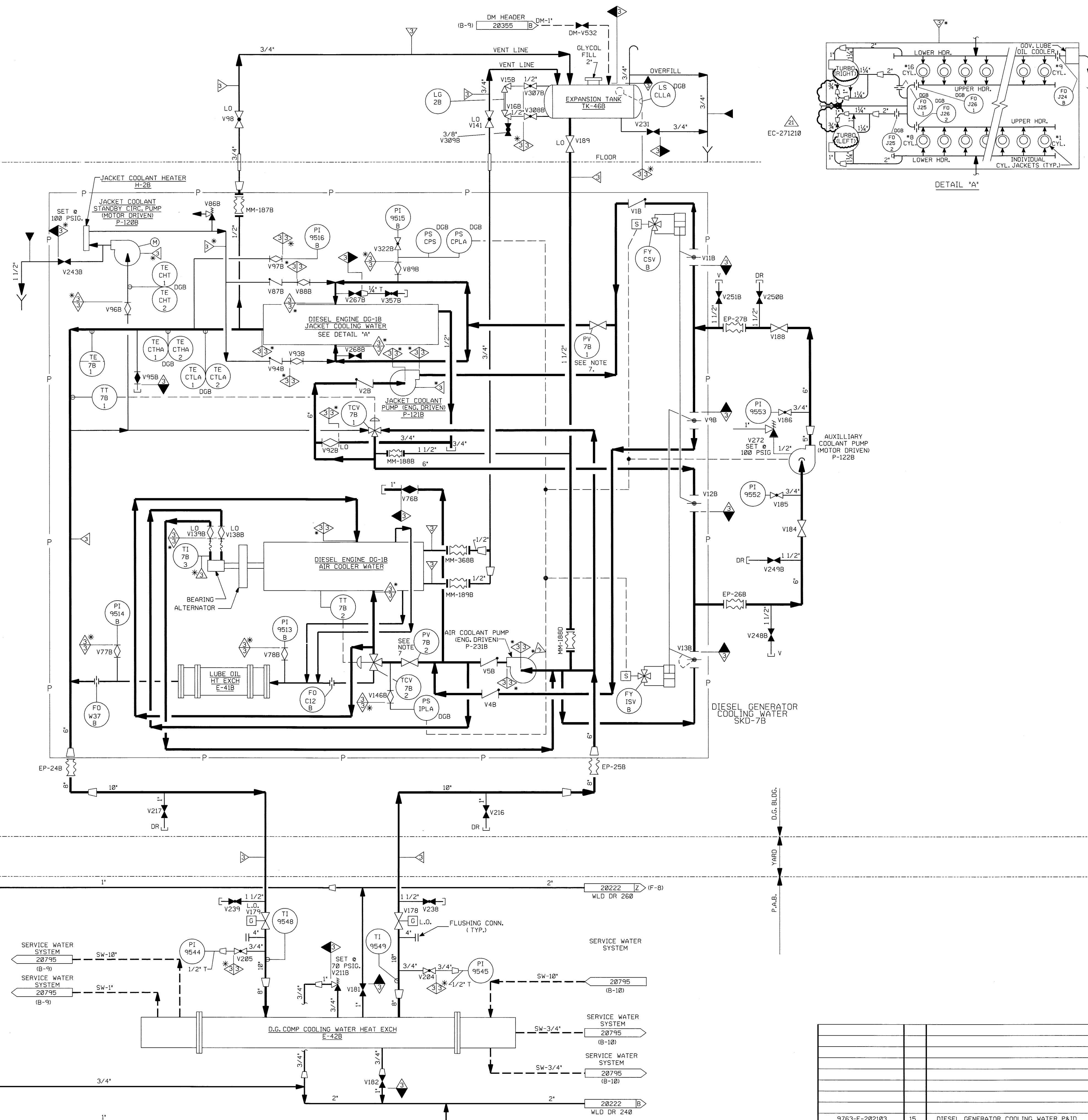


DIESEL GENERATOR COOLING WATER  
SYSTEM TRAIN "A"  
DETAIL

PID-	1-DG-B20461
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PID-1-DG-B20466

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 20456, 20457, 20461, 20463, 20464, 20465 & 20467.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG.
  3. DELETED
  4. VENT, DRAIN & TEST CONN. CODE AND SAFETY CLASS BREAKS ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6. DELETED
  7. THIS VALVE HAS BEEN STAKED IN A PRE-DETERMINED THROTTLED POSITION.

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

21	4/20/11	GPS	BCS	AJH	INCORP EC-271210
20	01/21/11	GPS	BCS	AJH	INCORP EC-156655
19	02/05/10	BCS	JM	CIC	INCORP EC145114
18	11/16/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00 & MSE 05-009 REV 00
17	5/16/02	JM	MPW	MKC	INCORP MMOD 00-0531 DCN*00
16	9/25/01	BCS	MPW	MKC	INCORP MSE 01-009, REV. 0
15	12/1/00	MPW	BCS	SPF	INCORP DCR 00-0026 DCN 00
14	6/2/98	DRL	BCS	VWS	INCORP MMOD 97-521 DCN 00
13	10/30/95	BCL	MPW	GRM	INCORP DCR 94012 GA*0 & 01, & INCORP, NCR 74/2530A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

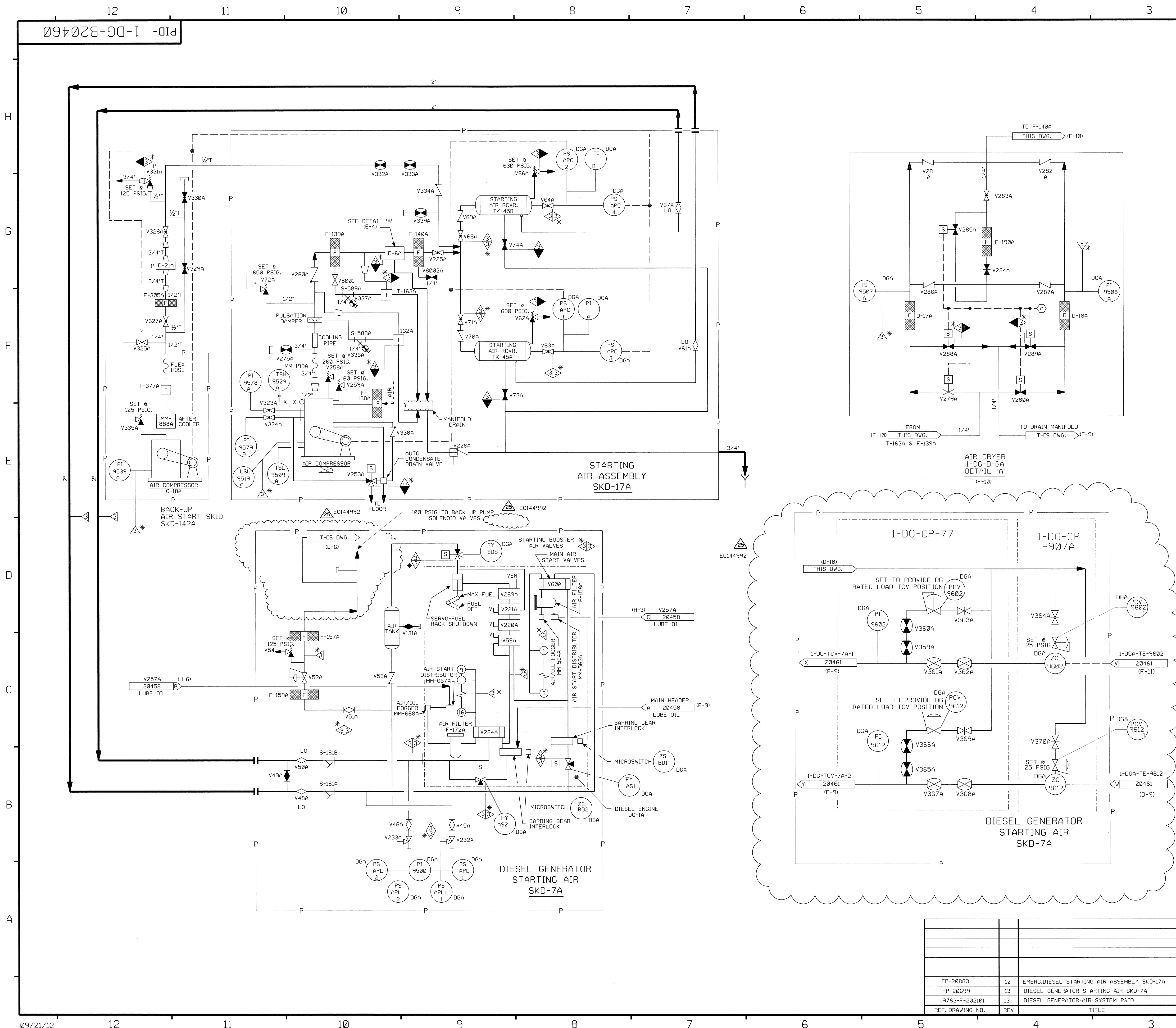


**NEXTERA ENERGY**  
SEABROOK  
DIESEL GENERATOR COOLING WATER  
SYSTEM TRAIN "B"  
DETAIL

PID- 1-DG-B20466

9763-F-202103	15	DIESEL GENERATOR COOLING WATER P&ID
REF. DRAWING NO.	REV	TITLE





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 20456, 20457, 20458, 20459, 20461, & 20462.  
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.  
3. DELETED  
4. △ - INDICATES REVISION LEVEL.  
5. VENTS, DRAINS AND TEST CONN. CODE AND SAFETY CLASS BREAKS ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.  
6. INSTRUMENT REFERENCE  
    (A) TO CONTROL PANEL ON SKD-17A, FP-22574.

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

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
25	10/7/12	BCS	JM	DS	INCRP EC144992
24	12-30-09	BCS	JM	DS	INCRP AR* 205407
23	5-21-09	BCS	JM	DEA	INCRP AR* 887 (REF CR 09-1131)
22	3-26-07	BCS	JM	RRB	INCRP MMOD 03-504 DCN-00 & CR 07-02207 REV. 0
21	6/9/03	JM	BCS	MKC	INCRP CR 00-04158 REV 00 & CR 02-01023 REV 00
20	5/7/02	JM	MPW	MKC	INCRP MMOD 01-533 DCN*00
19	6/12/00	BCS	DWS	MKC	INCRP DCR 97-0045 DCN-08
18	10/7/99	BCS	MPW	MKC	INCRP DCR 97-0045 DCN-05, 06
17	7/14/99	BCS	MPW	DJM	INCRP MMOD 96-566 DCN-00, DCR 97-45 DCN-00, 02
16	6/19/97	MPW	DWS	RSG	INCRP DCR 94-44 CA*0, 8, 9 & 14
15	4/2/96	MPW	DWS	GRM	INCRP DCR 94-12 CA*0 & 1
14	5/30/95	DWS	MPW	JHR	INCRP MMOD 940572 CA*0
13	12/9/94	DWS	BCL	MHO	INCRP MMOD 930545 CA*0
12	6/1/94	BCL	WDS	GRM	INCRP DCR 90-29 CA-2
11	5-27-94	BCL	MPW	GRM	INCRP MMOD 94-506 CA0, 03 & MMOD 92-546 CA-1
10	10-22-93	MRB	BCL	GRM	INCRP MMOD'S 92-546 CA0, 92-556 CA0
9	9-17-92	DWS	BCL	IW	INCRP DCR 920041 CA*0
8	4-17-92	MRB	BCL	RRB	INCRP MMOD 91-515 CA0
7	10/5/89	MRB	APL	WFD	INCRP MMOD 89-561 CA 0 REVISED INSTR. TAG PREFIX PER SIS VERIFICATION
6	8/14/89	MRB	APL	MAC	INCRP DCR 89-33 CA 03 ADDED VALVES V258A & V259A VERIFIED INSTALLED AND TAGGED AS SHOWN.
5	1/22/87	JDM	PAL	RRC	ADDED TAG NUMBERS & EQUIPMENT I.D., ADDED DGA DESIGNATION TO INSTR. REVISED LOCATION OF FILTER & FOGGER PER P.P. 20591, ADDED LUBE OIL SUPPLY TO PROVIDE MORE SYSTEM DETAIL, REVISED SAFETY CLASS PER MEMO SBF-86-876-TRAC.
4	10/3/86	MAP	JDM	RRC	DELETED NOTE 5. INCRP DR 02/288A, REVISED PER FP *20083, 20099 & PIPING ERECTION ISO'S, ADDED VALVE NO'S V8001 & V8002 INCRP, ECA 99/806179A.
3	6/19/86	JDM	DWS	RRC	INCRP NCR 74/3501A, ECA 19/802834A
2	2/27/86	WAL	JDM	WFD	ISSUED FOR OPERATIONS & INCRP, ECA'S 99/1093910 & 99/112515A
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	MNS	RSL	WFD	ISSUED FOR FIELD VERIFICATION

REV DATE DSGN CHKD CE DESCRIPTION

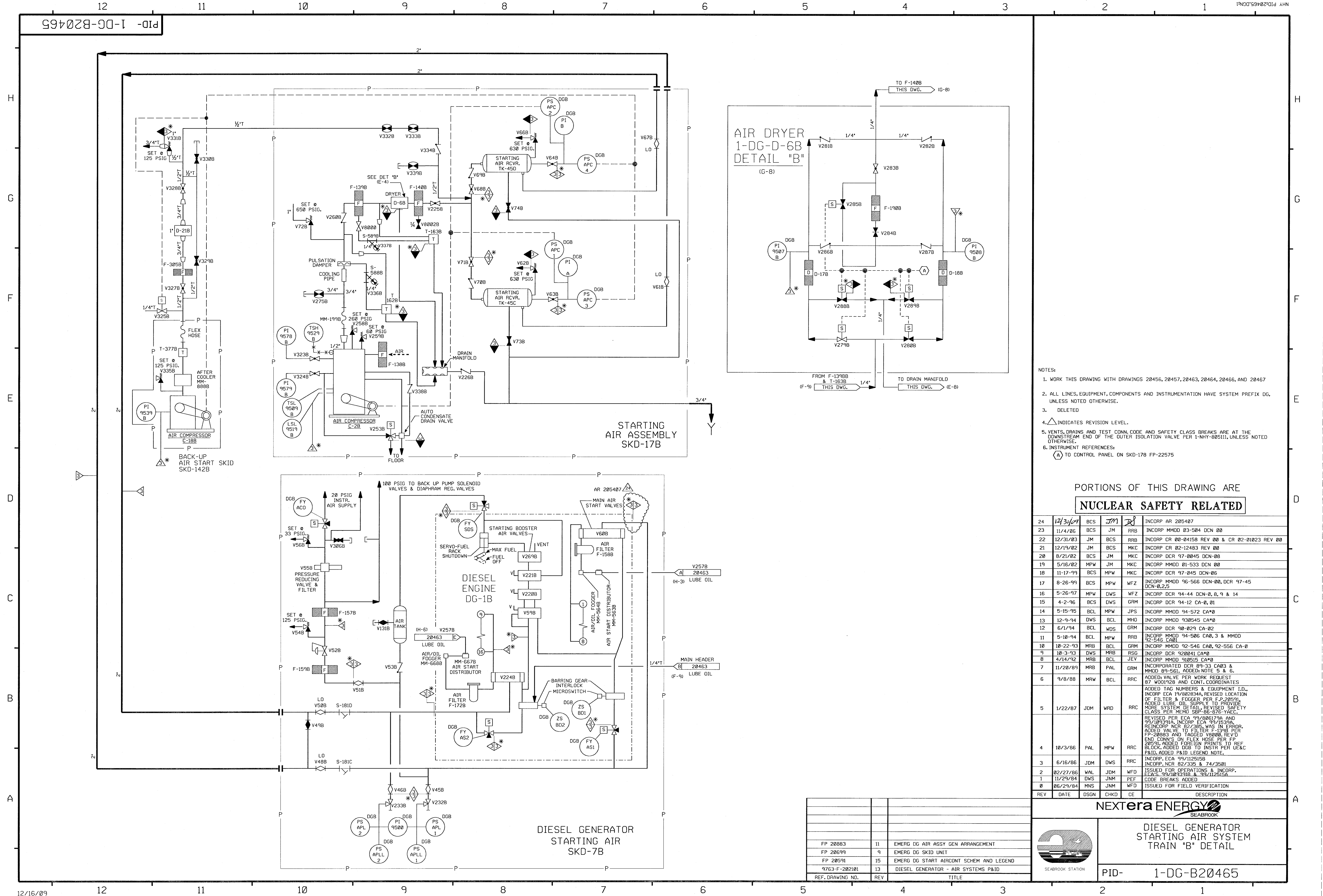
**Nextera Energy**  
SEABROOK

**DIESEL GENERATOR STARTING AIR SYSTEM TRAIN "A" DETAIL**

PID- 1-DG-B20460

REF. DRAWING NO.	REV	TITLE
FP-20883	12	EMERG. DIESEL STARTING AIR ASSEMBLY SKD-17A
FP-20699	13	DIESEL GENERATOR STARTING AIR SKD-7A
9763-F-202101	13	DIESEL GENERATOR-AIR SYSTEM P&ID





- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20463, 20464, 20466, AND 20467
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELETED
  4.  $\Delta$  INDICATES REVISION LEVEL.
  5. VENTS, DRAINS AND TEST CONN. CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
  6. INSTRUMENT REFERENCES:  
 $\Delta$  TO CONTROL PANEL ON SKD-17B FP-22575

PORTIONS OF THIS DRAWING ARE  
NUCLEAR SAFETY RELATED

24	12/30/01	BCS	JM	R	INCORP AR 205407
23	11/4/05	BCS	JM	RRB	INCORP MMOD 03-504 DCN 00
22	12/31/03	JM	BCS	RRB	INCORP CR 00-04158 REV 00 & CR 02-01023 REV 00
21	12/19/02	JM	BCS	MKC	INCORP CR 02-12483 REV 00
20	8/21/02	BCS	JM	MKC	INCORP DCR 97-0045 DCN-08
19	5/16/02	MPW	JM	MKC	INCORP MMOD 01-533 DCN 00
18	11-17-99	BCS	MPW	MKC	INCORP DCR 97-045 DCN-06
17	8-26-99	BCS	MPW	WFZ	INCORP MMOD 96-566 DCN-00, DCR 97-45 DCN-02,5
16	5-26-97	MPW	DWS	WFZ	INCORP DCR 94-44 DCN-0, 8, 9 & 14
15	4-2-96	BCS	DWS	GRM	INCORP DCR 94-12 CA-0, 01
14	5-15-95	BCL	MPW	JPS	INCORP MMOD 94-572 CA*0
13	12-9-94	DWS	BCL	MHO	INCORP MMOD 930545 CA*0
12	6/1/94	BCL	WDS	GRM	INCORP DCR 90-029 CA-02
11	5-10-94	BCL	MPW	RRB	INCORP MMOD 94-506 CA0, 3 & MMOD 92-545 CA0
10	10-22-93	MRB	BCL	GRM	INCORP MMOD 92-546 CA0, 92-556 CA-0
9	10-3-93	DWS	MRB	RSQ	INCORP DCR 920041 CA*0
8	4/14/92	MRB	BCL	JEV	INCORP MMOD 910515 CA*0
7	11/28/89	MRB	PAL	GRM	INCORPORATED DCR 89-33 CA03 & MMOD 89-561, ADDED NOTE 5 & 6.
6	9/8/88	MRW	BCL	RRC	ADDED VALVE PER WORK REQUEST 87-0001928 AND CONT. COORDINATES
5	1/22/87	JDM	WRD	RRC	ADDED TAG NUMBERS & EQUIPMENT I.D., INCORP ECA 19/802834A, REVISED LOCATION OF FILTER & FOGGER PER F.P. 20591, ADDED LUBE OIL SUPPLY TO PROVIDE MORE SYSTEM DETAIL, REVISED SAFETY CLASS PER MEMO SBP-86-87E-YAEC.
4	10/3/86	PAL	MPW	RRC	REVISED PER ECA 99/006179A AND 99/109391A, INCORP ECA 99/1539A, INCORP NCR 82/385, WAS IN ERROR, ADDED VALVE TO FILTER F-157B PER FP-20883 AND TAGGED V8000, REV'D END CONNS ON FLEX HOSE PER FP 20591, ADDED FOREIGN PRINTS TO REF BLOCK, ADDED DGB TO INSTR PER U&C P&ID, ADDED P&ID LEGEND NOTE.
3	6/16/86	JDM	DWS	RRC	INCORP ECA 99/112515B, INCORP NCR 82/335 & 74/3501
2	02/27/86	WAL	JDM	WFO	ISSUED FOR OPERATIONS & INCORP. ECA'S 99/109391B & 99/112515A
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	MNS	JNM	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FP 20883	11	EMERG DG AIR ASSY GEN ARRANGEMENT
FP 20699	9	EMERG DG SKID UNIT
FP 20591	15	EMERG DG START AIRCONT SCHEM AND LEGEND
9763-F-202101	13	DIESEL GENERATOR - AIR SYSTEMS P&ID
REF. DRAWING NO.	REV	TITLE

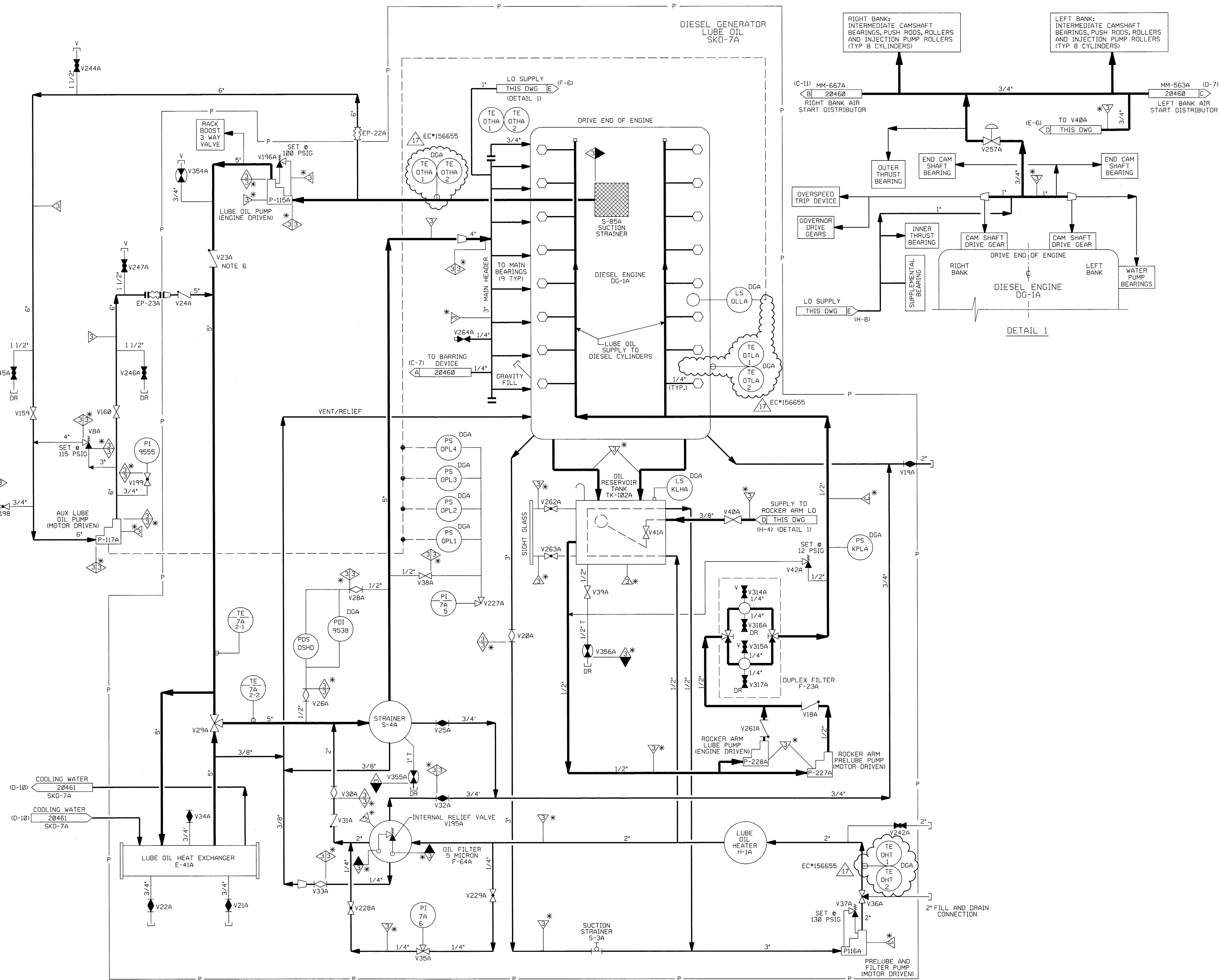


DIESEL GENERATOR  
STARTING AIR SYSTEM  
TRAIN "B" DETAIL

PID- 1-DG-B20465

PID-1-DG-B20458

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

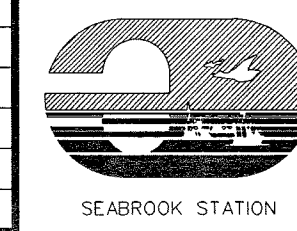


- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457 & 20459 THRU 20462.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELETED.
  4. VENT AND DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD 1-NHY-80511, UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES REVISION LEVEL.
  6. VALVE DISC DRILLED WITH 1/4" ORIFICE TO ALLOW BACKFLOW WITH ENGINE IN STANDBY.

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

17	12/31/11	JM	BS	ASA	INCORP EC*156655
16	10/31/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00
15	1/18/05	JM	BCS	MR	INCORP DCR 04-010 - DCN 00
14	10/15/03	BCS	MPW	RRB	INCORP MMOD 02-541 DCN-0.2 & MSE 03-160 REV.0
13	6/10/02	JM	BCS	MKC	INCORP CR 00-04158 REV. 00, MMOD 01-531 DCN-00, 01
12	1/30/02	BCS	MPW	MKC	INCORP MSE 01-0005 REV. 01
11	10/6/99	BCS	MPW	CWE	INCORP MMOD 98-554 DCN-00,01
10	7/30/97	MPW	BCS	VWS	INCORP MMOD 96-550 DCN 01
9	4/1/96	BCL	MPW	GRM	INCORP. DCR 94-12 CA0, 01
8	5/27/94	MPW	BCL	GRM	INCORP. MMOD 92-546 CA0, DCR 90-29 CA-0
7	5/11/92	MRB	BCL	GRM	INCORP. MMOD 91-622 CA0
6	10/29/90	MRB	JM	BCL	INCORP. MMOD 90-601 CA00 REVISED NOTE 4
5	02/10/87	JDM	PAL	VWS	REVISED PRESSURE SWITCH TIE-IN PER FP-20590, COMPLETE REDRAW TO CLARIFY LAYOUT FOR BETTER FLOW DIA UTILIZATION, ADD LINE SIZES TO SKID PIPING.
4	10/16/86	MAP	WRD	RRR	REVISED PER PIPING ERECTION ISO, ADD LOCATION COORD'S.
3	6/23/86	WAL	VNK	RRR	UPDATED PER LATEST P&ID & INCORP NCR 93/228C
2	2/27/86	WAL	JDM	WFD	ISSUED FOR OPERATIONS
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	6/29/84	MNS	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK



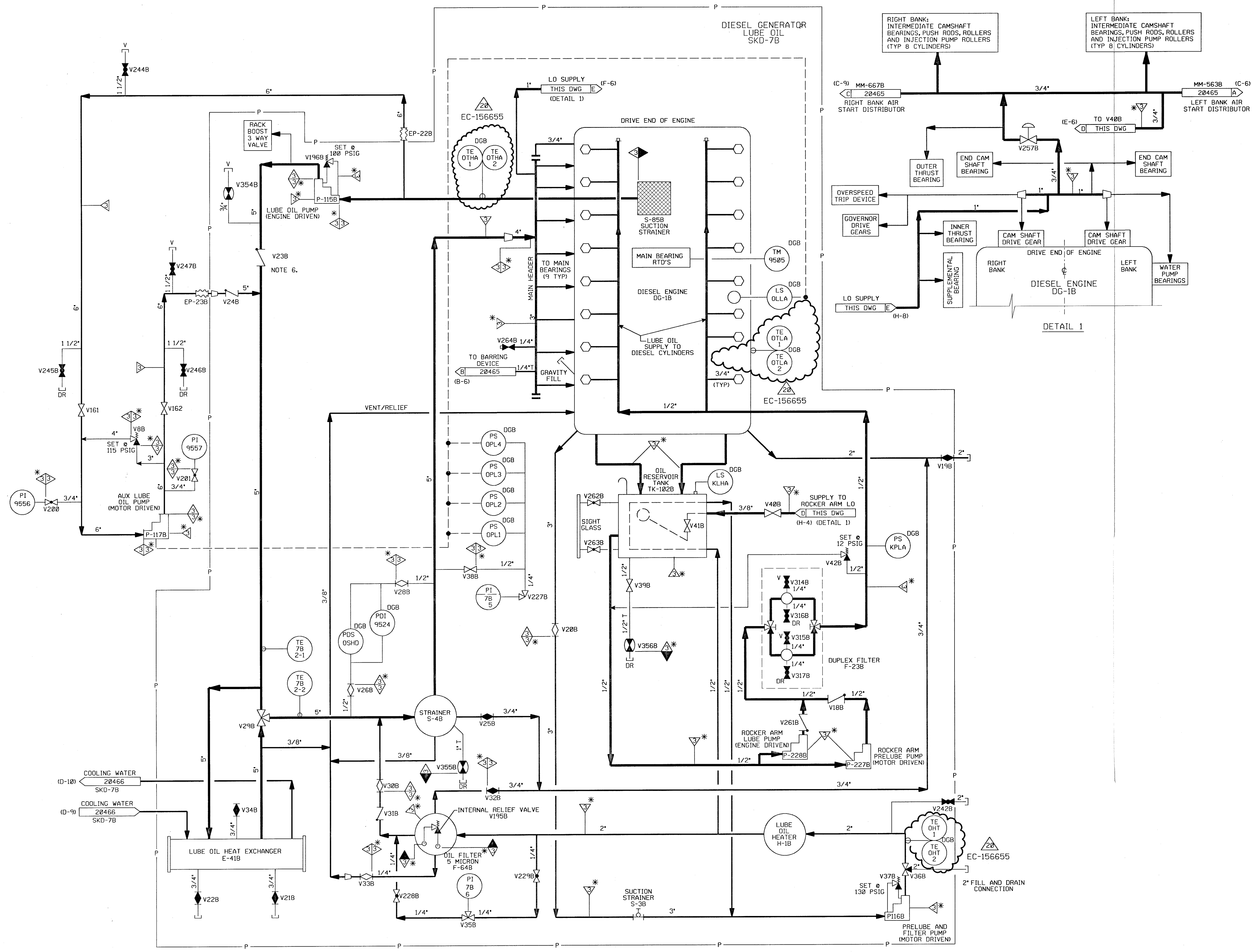
**DIESEL GENERATOR LUBE OIL  
SYSTEM TRAIN "A"  
DETAIL**

PID- 1-DG-B20458

9763-F-202102	16	DIESEL GENERATOR FUEL & LUBE OIL P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-DG-B20463

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 20456, 20457, 20464, 20465, 20466, & 20467.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELETED
  4. VENT AND DRAIN SAFETY CLASS AND CODE BREAKS ARE AT THE DOWNSTREAM END OF THE ISOLATION VALVE PER DESIGN STANDARD 1-NHY-80511, UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES REVISION LEVEL
  6. VALVE DISC DRILLED WITH 1/4" ORIFICE TO ALLOW BACKFLOW WITH ENGINE IN STANDBY.

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

20	01/11/11	GPS	PCS	AST	INCORP. EC-156655
19	10/3/06	JM	BCS	RRB	INCORP. MMOD 03-504 DCN 00 & REINCORP. CR 00-04158 REV 00
18	12/8/04	JM	BCS	MR	INCORP. DCR 04-010 - DCN 00
17	3/24/04	BCS	JM	MKC	INCORP. MSE 03-160 REV. 00, MMOD 02-541 DCN-00 & 02, DCR 00-029 DCN-00
16	12/31/03	JM	BCS	MKC	INCORP. CR 00-04158 REV. 00
15	8/13/02	JM	MPW	BCS	INCORP. CR 00-12795-01
14	1/12/01	BCS	MPW	MKC	PARTIAL INCORP. DCR 00-0029 DCN*00
13	8/25/99	DWS	BCS	CWE	INCORP. MSE 01-0005 REV. 0
12	7/30/97	MPW	BCS	VWS	INCORP. MMOD 96-550 DCN 01
11	11/2/95	BCL	MPW	GRM	INCORP. DCR 94-012 CA0, 01
10	5/18/94	BCL	DWS	GRM	PARTIAL INCORP. DCR 90-029
9	5/8/94	MPW	BCL	GRM	BACKED OUT DCR 90-029
8	5/86/94	MRB	MPW	RRB	INCORP. MMOD 92-546 CA0 & DCR 90-0029 CA0
7	5/11/92	MRB	BCL	GRM	INCORP. MMOD 91-622 CA0
6	10/29/90	MRB	JM	BCL	INCORP. MMOD 90-601, CA00 REVISED NOTE 4
5	2/18/87	JDM	PAL	VWS	REVISED PRESSURE SWITCH TIE-IN PER FP 20590, COMPLETE REDRAW TO CLARIFY LAYOUT FOR BETTER FLOW DIAGRAM UTILIZATION, ADDED LINE SIZES TO SKID PIPING
4	10/16/86	PAL	WRD	RRR	INCORP. ECA 19/1891D, DGA ADDED PER UE&C P&ID, ADDED NOTE 5, FOREIGN PRINTS TO REF. BLOCK & DWG COORD TO CONTINUATION FLAGS.
3	6/23/86	WAL	VNK	RRR	UPDATE PER LATEST UE&C P&ID
2	2-27-86	WAL	JDM	WFO	ISSUED FOR OPERATIONS
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	MNS	RSL	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK



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

PID- 1-DG-B20463

FP, 20590	13	EMERG. DG LUBE OIL SYS. SCHEMATIC
FP, 20599	9	EMERG. DG SKID UNIT GEN. ARRANGMT.
9763-F-202102	16	D.G. FUEL & LUBE OIL P&I DIAGRAM
REF. DRAWING NO.	REV	TITLE



PID-1-DG-B20462

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 20456, 20457, 20458, 20459, 20460, & 20461.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS OTHERWISE NOTED.
  3. DELETED
  4. VENT AND DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD 1-MNY-00011, UNLESS NOTED OTHERWISE.
  5.  $\Delta$  INDICATES REVISION LEVEL.

6	11/16/86	JM	W-2	222	INCORP MMOD 83-584 DCM 88
5	10/6/99	BCS	WFM	CVE	INCORP MMOD 980554 DCM 88.01
4	7/30/97	WFM	BCS	YWS	INCORP MMOD 960558 DCM 81
3	4/2/96	BCL	WFM	GRM	INCORP DCR 94-12 C&B & ADDED NOTE 5.
2	10/7/86	PNL	HAP	BRC	ADDED PIPE & CAP PER ERECTION ISO. ADDED DCA PER US&C PAID ADDED FOREIGN PRINTS TO REF BLOCK
1	02/27/86	VAL	JDM	WFD	ISSUED FOR OPERATIONS
0	06/29/84	MNS	RSL	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

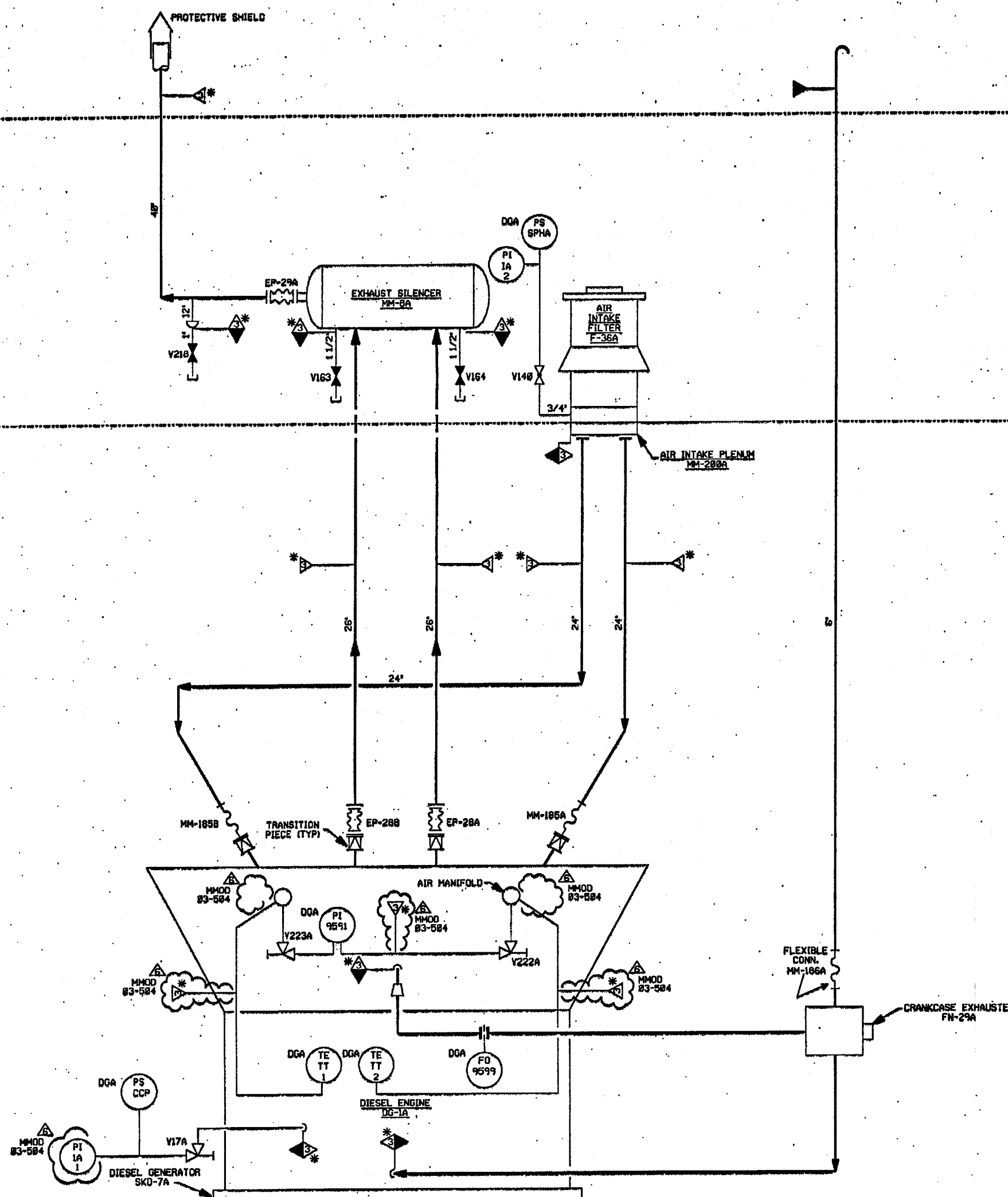
**FPL ENERGY**

Seabrook Station



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

PID- 1-DG-B20462

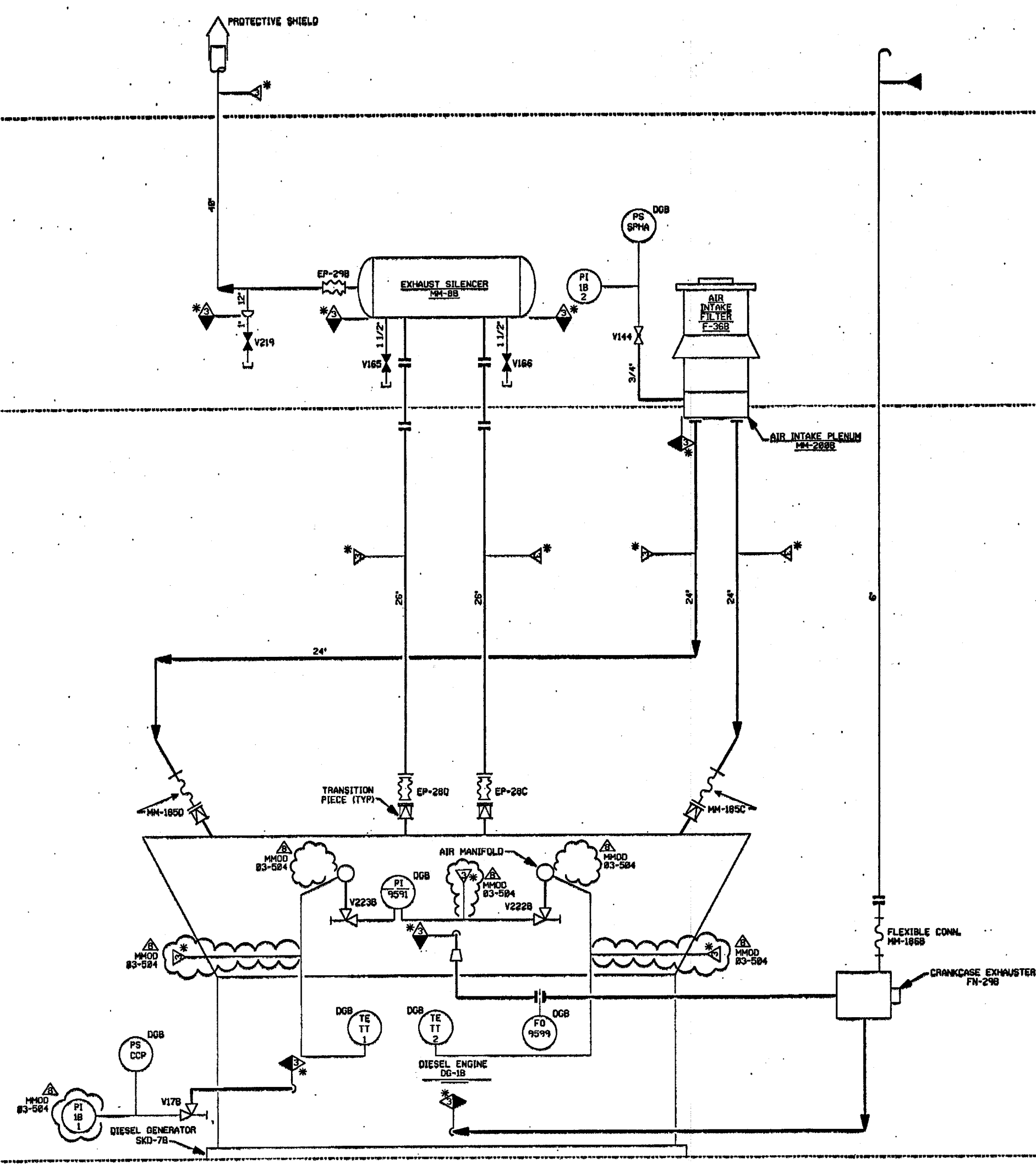


FP20589	89	EMERG DG INTX, EXT 4 & CRKC SCHEM
FP20983	88	EMERG DG AIR INLET FILTER (ORY TYPE)
FP20848	87	EMERG DG EXHAUST SIL, 148 INCH 26 INLETS
9763-F-202181	13	DIESEL GENERATOR AIR SYSTEM PAID
REF. DRAWING NO.	REV	TITLE



PID-1-DG-B20467


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 20456, 20457, 20463, 20464, 20465, & 20466.
  2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELETED.
  4.  $\Delta$  INDICATES REVISION LEVEL.
  5. VENT AND DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD 1-MW-00311, UNLESS NOTED OTHERWISE.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
8	11/2/92	JH	BCS	228	INCCP MM00 83-504 DCM 00
7	9/25/91	DWS	BCS	CVE	INCCP MM00 96-550 DCM 01
6	7/28/91	MPV	BCS	VYS	INCCP MM00 96-550 DCM 01
5	11/2/90	BCL	MPV	GRM	INCCP DCR 94-12 CMB & CMB
4	5/11/92	MRB	BCL	GRM	INCCP MM00 91-622 CMB
3	10/3/86	MAP	BCL	RRC	REVISED PER PIPING CONNECTION ISSUES & LATEST U.S. PAID-LEGEND NOTE 4 & 5. DELETED TO REF. DELETED & DESIGN FROM NOTE 1, ADDED DELETED NOTE.
2	5/25/86	VAL	VNK	RRC	UPDATED PER LATEST U.S.A.C. PAID.
1	8/27/86	VAL	JOM	WFO	ISSUED FOR OPERATIONS
0	8/27/84	MNS	RSL	WFO	ISSUED FOR FIELD VERIFICATION

**FPL ENERGY**

Seabrook Station

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

PID- 1-DG-B20467

REF. DRAWING NO.	REV	TITLE
FP 28589	9	EMERG DG INTK, EXH & CRANKCASE VACUUM SYS
FP 28848	5	EMERG DG AIR INLET FILTER (DRY TYPE)
FP 28983	E	EMERG DG EXHAUST SILENCER 18" IN 26" INLET
9763-F-282101	13	D.G. AIR SYS. PAID