

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 20302 THRU 20306. (REFRIGERANT PIPING DETAILED ON 20306J)
  - 2) ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED OTHERWISE.
  - 3)  $\Delta$  INDICATES DRAWING REVISION.

4	4/4/80	DWS	—	MB	—	JMC	INCORP DCR 988039 DCM#88
3	3/31/93	MRB	—	BCL	DWS	JMC	INCORP M400 92-553 CAB
2	8/31/91	GPM	FCB	JH	MRB	MAC	INCORP DCR 84-88 L407
1	1/27/87	WDS	TAK	WRD	BCL	VMS	ADDED NOTE 3, REVISED REF DWG REV'S, REVISED PER LATEST SYS. DWG'S.
0	3/4/86	DWS	GJS	WES	JWK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
9763-F-614128	12	CONTROL RM. MAKE-UP AIR SYS AIR FLOW DIA					
9763-F-614127	12	CONTROL BLDG. VENTILATION MAKE-UP AIR LINE					
9763-F-604167	11	CONTROL RM. AIR COND. SYS. REFRIG. PIPE DIA					
9763-F-604162	8	CONTROL RM. MAKE-UP AIR SYS. ARRANGEMENT					
9763-F-604097	10	DIESEL GEN. BLDG. VENTIL. SYS. PLAN					
9763-F-604095	13	CBA, EMERG. SWGR. & BATTERY ROOMS, PLAN					
9763-F-604094	11	CBA, EMERG. SWGR. BATT. RM. & CABLE SP. MECH. RM. PLANS					
9763-F-604093	14	CBA, CABLE SPREAD & ELECT TUNNELS, PLANS					
9763-F-604092	13	CONTROL RM. HT. VENT & AIR COND. MECH. EQUIP. RM.					
9763-F-604091	12	CBA EMERG. SWGR. & CABLE SPREAD AREA, AIR FLOW DIA.					
REF. DRAWING NO.	REV	TITLE					

**North Atlantic** Energy Service Corporation

**CONTROL BUILDING AIR HANDLING OVERVIEW**

PID- 1-CBA-B20300

SEABROOK STATION

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. I-CBA-V-83 WILL BE NORMALLY OPEN/THROTTLED TO A PRESET POSITION.

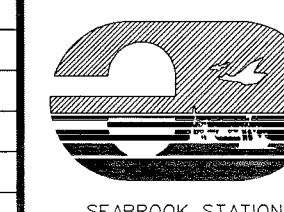
13. DELETED

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

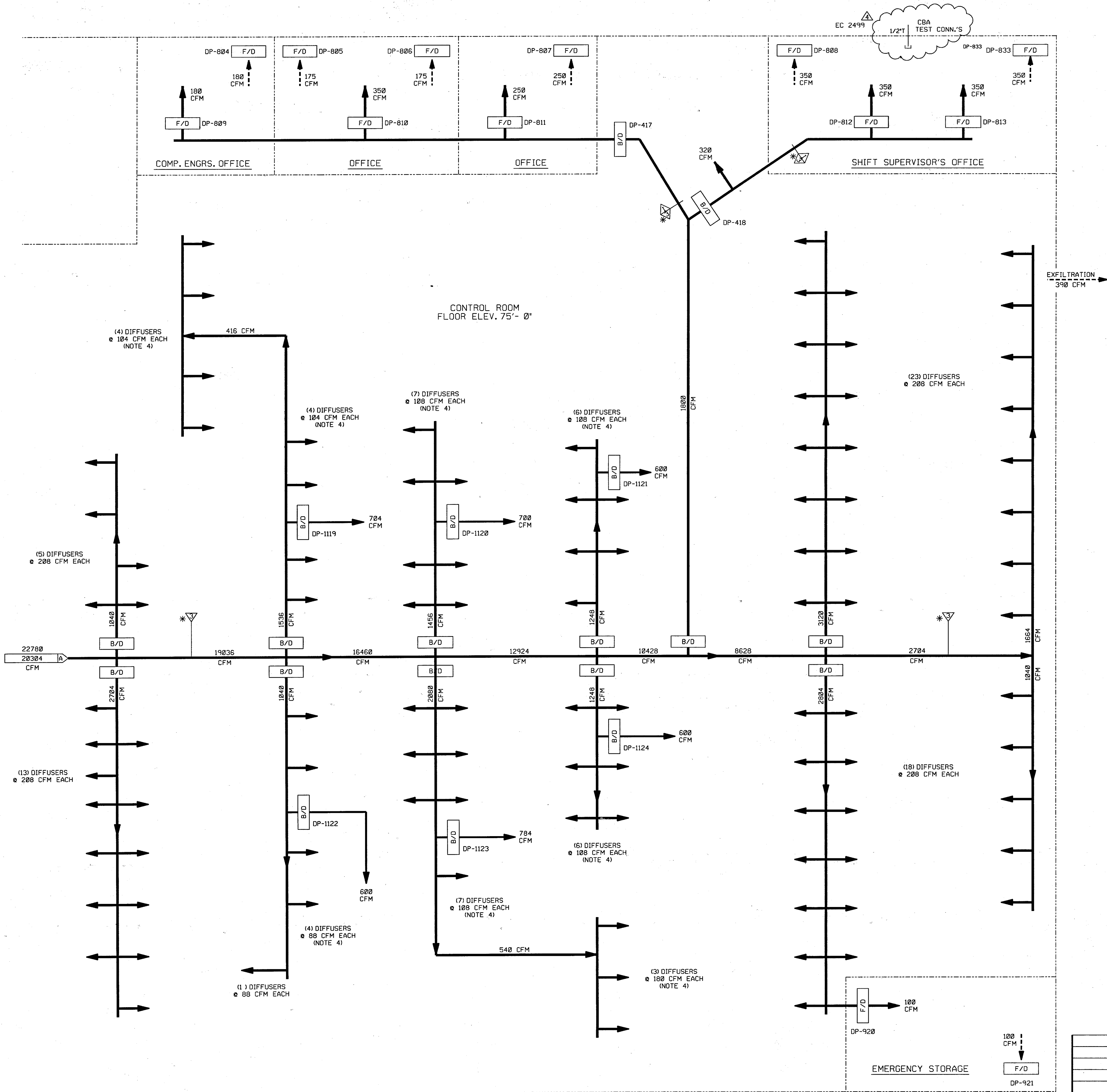


CONTROL BUILDING AIR HANDLING  
MECHANICAL ROOM ELEVATION 75'-0"  
DETAIL

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 MMD 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 99/115114A, 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

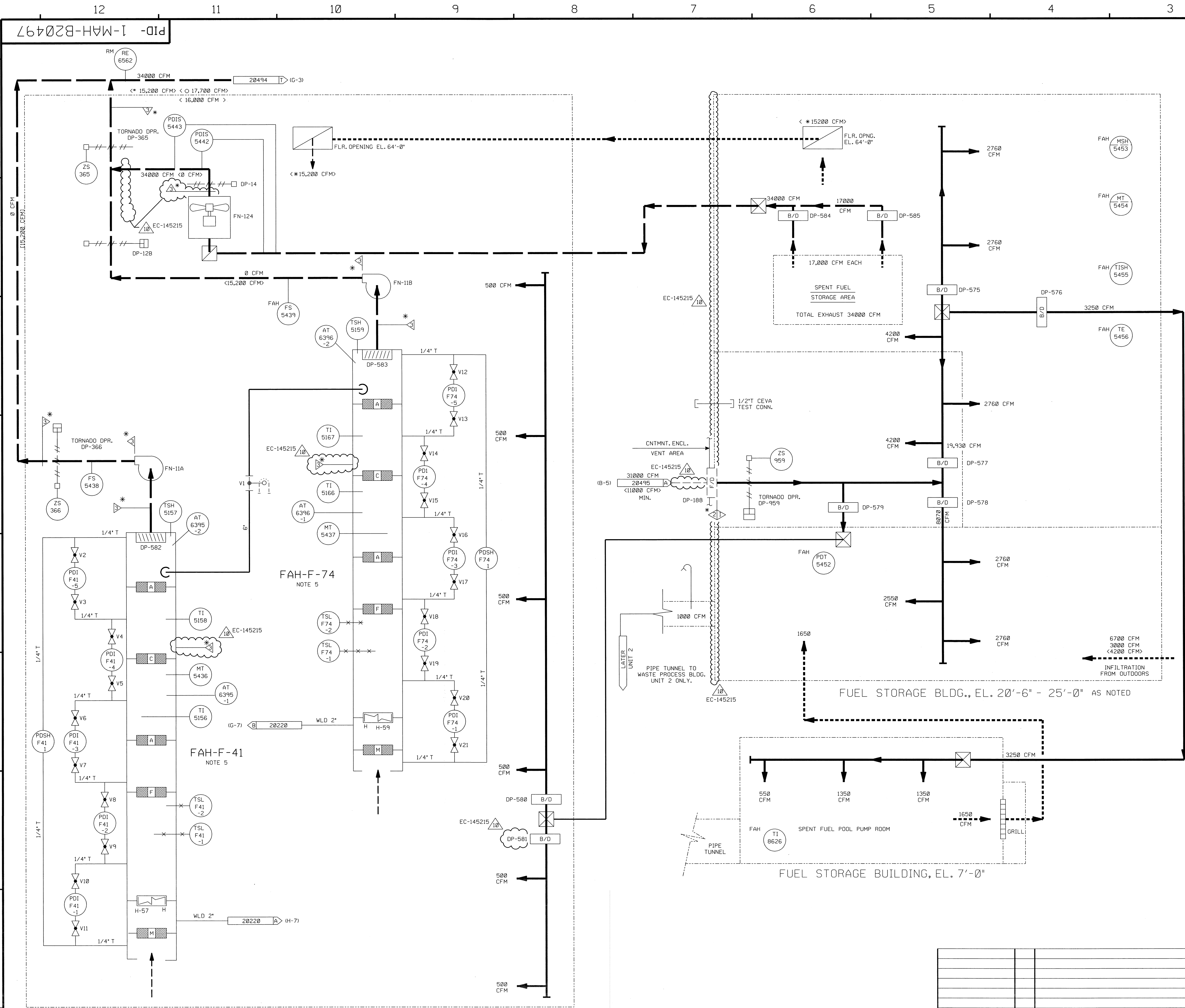
**Nextera ENERGY**  
SEABROOK



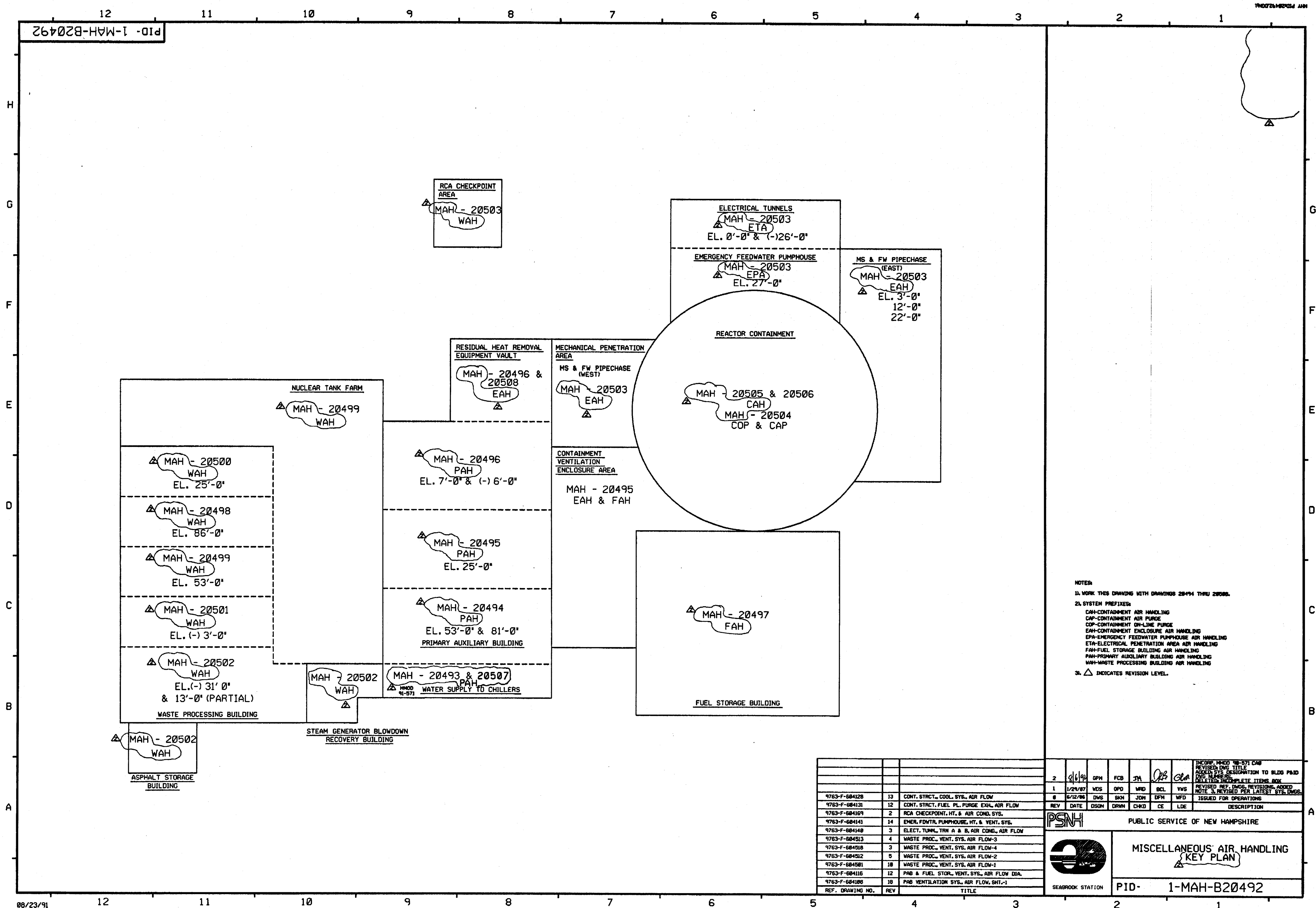
MISCELLANEOUS AIR HANDLING  
FUEL STORAGE BUILDING  
DETAIL

PID- 1-MAH-B20497

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

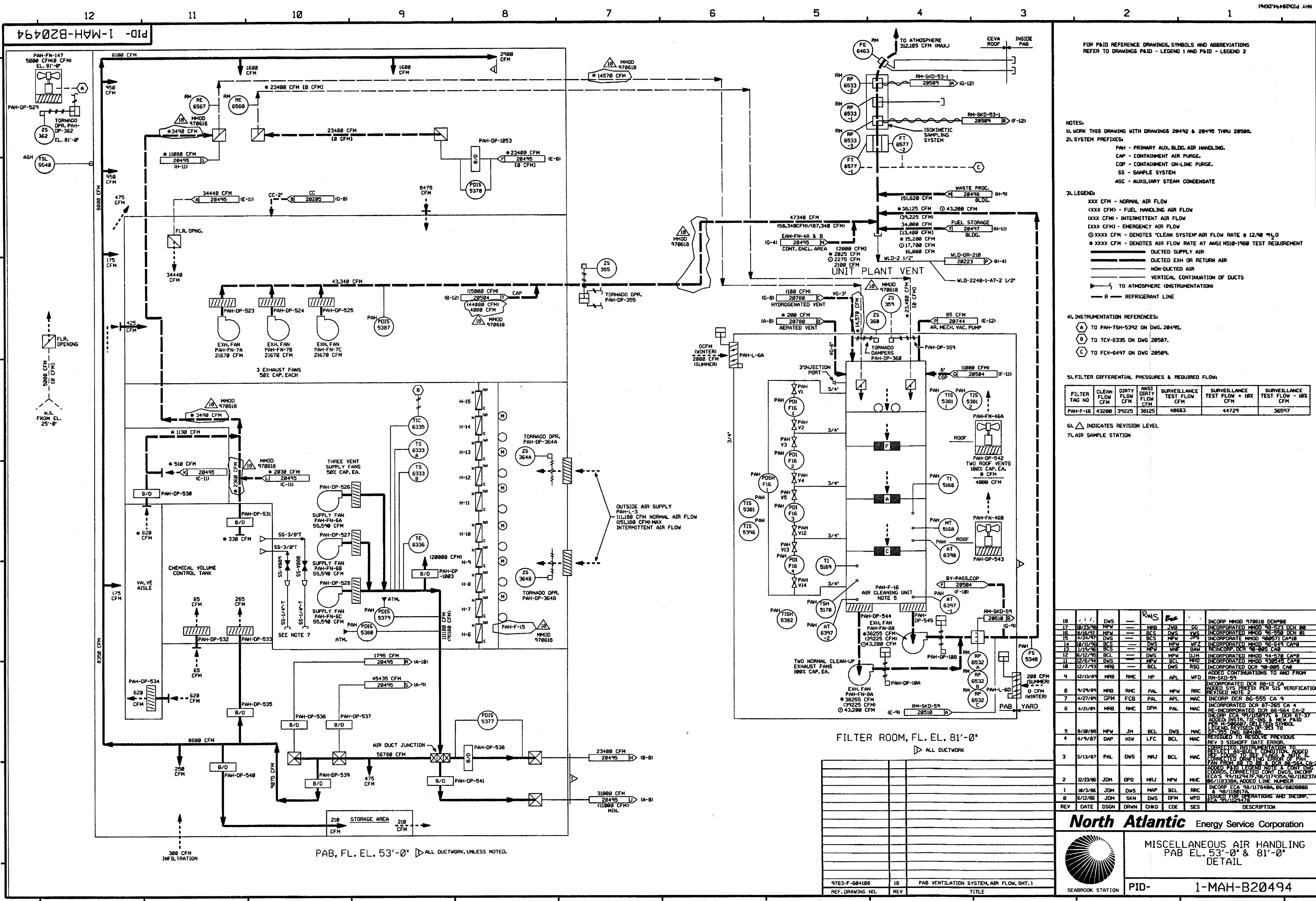






NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20494 THRU 20508.  
2. SYSTEM PREFIXES:  
CAH-CONTAINMENT AIR HANDLING  
CAP-CONTAINMENT AIR PURGE  
COP-CONTAINMENT ON-LINE PURGE  
EAH-CONTAINMENT ENCLOSURE AIR HANDLING  
EPA-EMERGENCY FEEDWATER PUMPHOUSE AIR HANDLING  
ETA-ELECTRICAL PENETRATION AREA AIR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

2		9/6/94	DPH	FCB	JH	QPS	GLA	INCORP. MNO 91-571 CAB REVISION DNG TITLE ADDED SYS DESIGNATION TO BLDG PABD DNG MNO 91-571 REVISION DNG TITLE ADDED SYS DESIGNATION TO BLDG PABD DNG MNO 91-571 REVISION DNG TITLE ADDED SYS DESIGNATION TO BLDG PABD DNG MNO 91-571
1	1/24/87	WDS	OPD	WPD	BCL	VWS		REVISED PER DWS, REVISIONS ADDED NOTE 3, REVISED PER LATEST SYS. DWS.
0	6/12/86	DWS	SKN	JDM	DFH	WFD		ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE		DESCRIPTION
PSNH								PUBLIC SERVICE OF NEW HAMPSHIRE
								MISCELLANEOUS AIR HANDLING KEY PLAN
SEABROOK STATION								PID- 1-MAH-B20492
REF. DRAWING NO.	REV	TITLE						



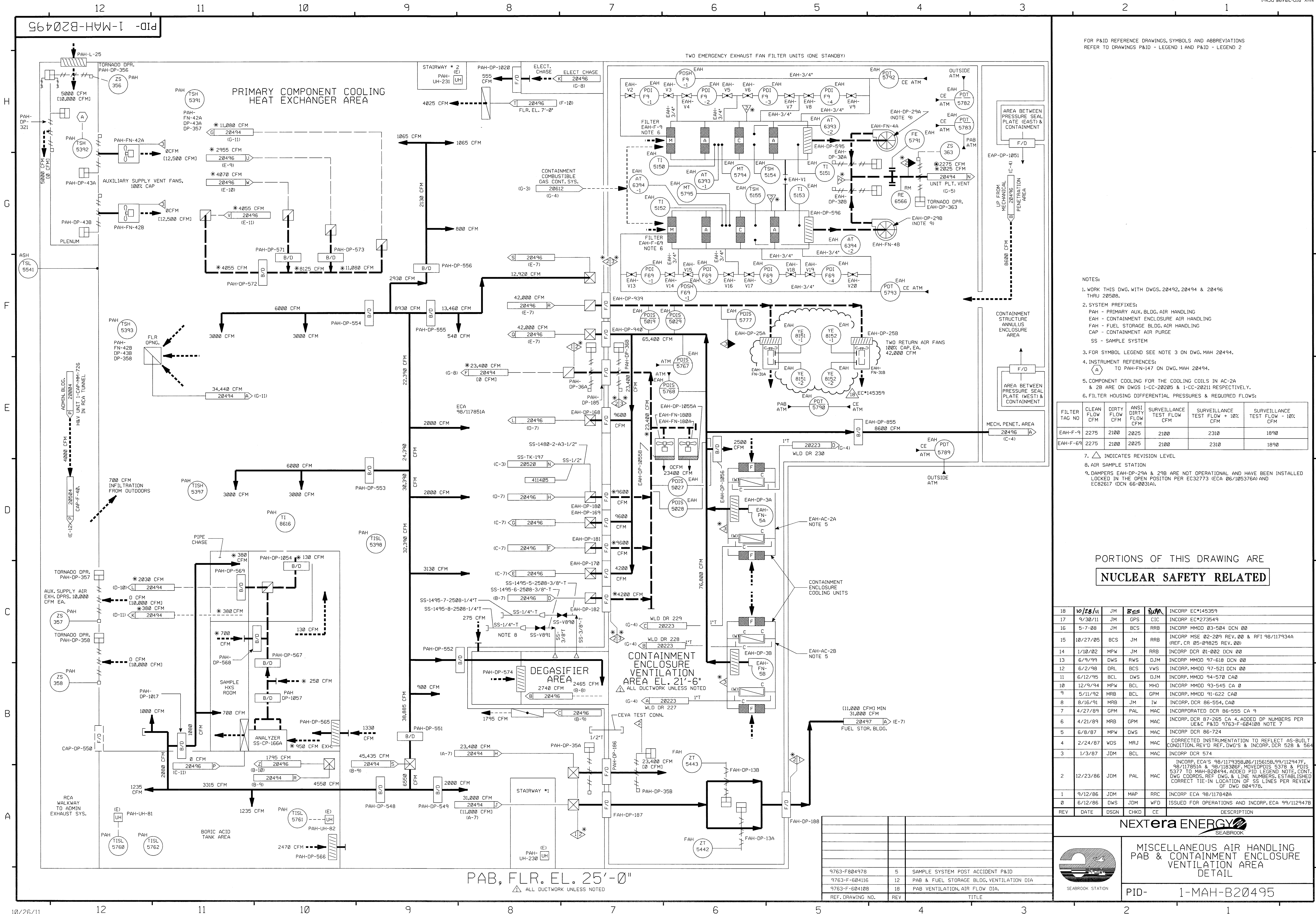
- FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2
- NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20492 & 20495 THRU 20500.  
2. SYSTEM PREFIXES:  
PAH - PRIMARY AUX. BLDG. AIR HANDLING.  
CAP - CONTAINMENT AIR PURGE.  
COP - CONTAINMENT ON-LINE PURGE.  
SS - SAMPLE SYSTEM  
ASC - AUXILIARY STEAM CONDENSATE
3. LEGEND:  
XXX CFM - NORMAL AIR FLOW  
XXX CFM - FUEL HANDLING AIR FLOW  
XXX CFM - INTERMITTENT AIR FLOW  
XXX CFM - EMERGENCY AIR FLOW  
XXX CFM - DENOTES "CLEAN SYSTEM" AIR FLOW RATE @ 12.98 %  
XXX CFM - DENOTES AIR FLOW RATE AT ANSI NS10-1988 TEST REQUIREMENT  
DUCTED SUPPLY AIR  
DUCTED EXH OR RETURN AIR  
NON-DUCTED AIR  
VERTICAL CONTINUATION OF DUCTS  
TO ATMOSPHERE (INSTRUMENTATION)  
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 CFM | SURVEILLANCE TEST FLOW CFM |
|----------------|----------------|----------------|---------------------|----------------------------|----------------------------|----------------------------|
| PAH-F-15       | 43200          | 39225          | 38125               | 40653                      | 44729                      | 36597                      |
6. Δ INDICATES REVISION LEVEL  
7. AIR SAMPLE STATION

18	11/23/98	DWS	MAC	MAC	MAC	INCORP. MMD 970618 DCR 08
17	8/18/97	MPW	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 08
16	8/18/97	MPW	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
15	4/24/97	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
14	11/17/96	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
13	11/17/96	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
12	6/12/95	DWS	MAC	MAC	MAC	INCORP. MMD 94-570 CA 0
11	12/6/94	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
10	12/7/93	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
9	12/13/93	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
8	9/24/93	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
7	4/27/93	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
6	4/21/93	DWS	MAC	MAC	MAC	INCORP. MMD 93-541 CA 0
5	8/18/98	MPW	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 08
4	4/9/97	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
3	3/13/97	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
2	12/23/96	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
1	10/3/96	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
0	6/12/96	DWS	MAC	MAC	MAC	INCORP. MMD 95-522 DCR 01
REV	DATE	DSGN	DRWN	CHKD	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

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

PID- 1-MAH-B20494



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 MM0D 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 MM0D 97-618 DCN 00
12	6/2/98	DRL	BCS	VWS	INCORP. MM0D 97-521 DCN 00
11	6/12/95	BCL	DWS	DJM	INCORP. MM0D 94-570 CA 0
10	12/9/94	MPW	BCL	MHO	INCORP. MM0D 93-545 CA 0
9	5/11/92	MRB	BCL	GPM	INCORP. MM0D 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 82B & 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

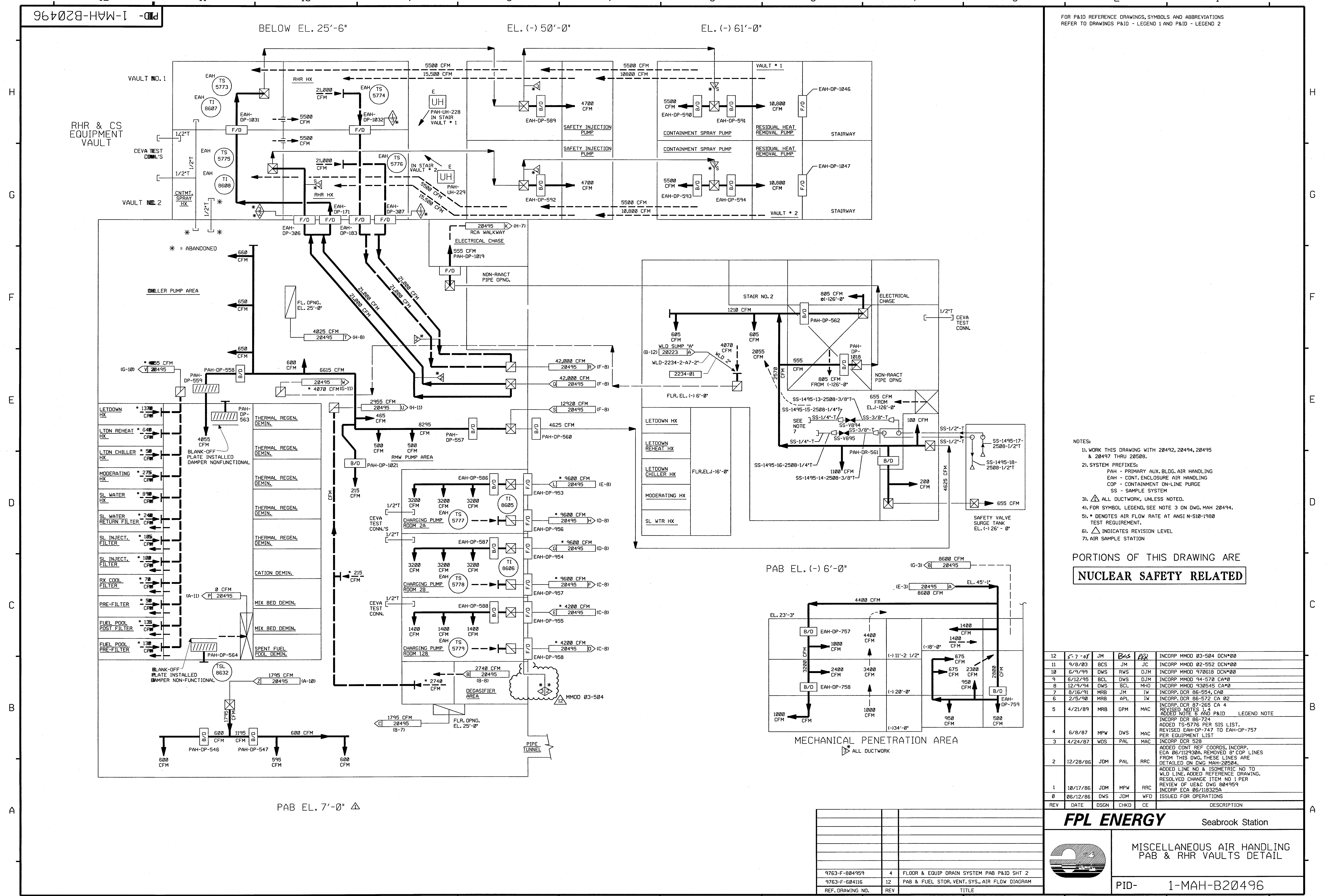
MISCELLANEOUS AIR HANDLING  
PAB & CONTAINMENT ENCLOSURE  
VENTILATION AREA  
DETAIL

PID- 1-MAH-B20495



964020496-1-MAH-B20496

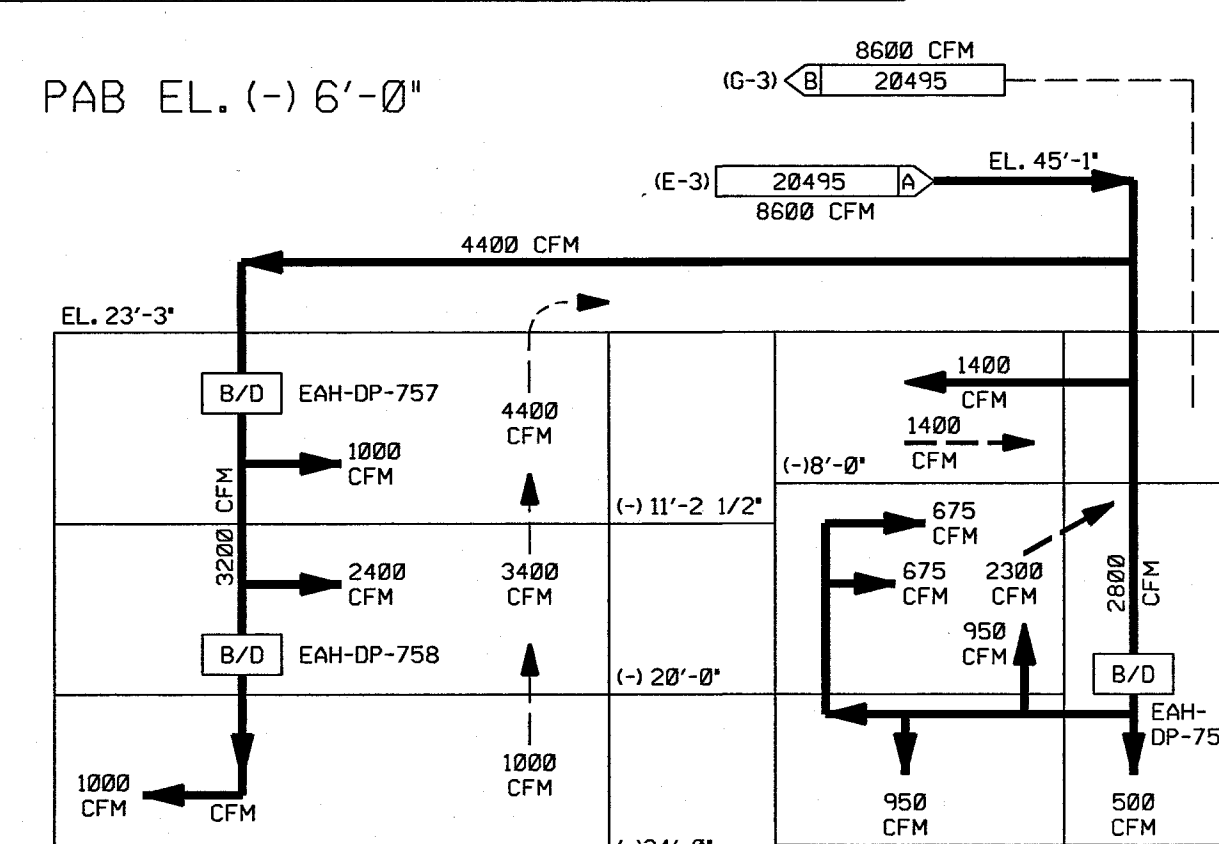
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. WORK THIS DRAWING WITH 20492, 20494, 20495 & 20497 THRU 20508.
  2. SYSTEM PREFIXES:  
PAH - PRIMARY AUX. BLDG. AIR HANDLING  
EAH - CONT. ENCLOSURE AIR HANDLING  
CDP - CONTAINMENT ON-LINE PURGE  
SS - SAMPLE SYSTEM
  3. ALL DUCTWORK, UNLESS NOTED.
  4. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. MAH 20494.
  5. \* DENOTES AIR FLOW RATE AT ANSI N-510-1980 TEST REQUIREMENT.
  6. Δ INDICATES REVISION LEVEL
  7. AIR SAMPLE STATION

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

PAB EL. (-) 6'-0"



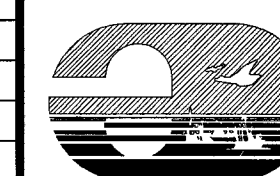
MECHANICAL PENETRATION AREA

ALL DUCTWORK

12	5-7-01	JM	Bes	PP	INCORP MMOD 03-504 DCN#00
11	9/8/03	BCS	JM	JC	INCORP MMOD 02-552 DCN#00
10	6/9/99	DWS	RWS	DJM	INCORP MMOD 970618 DCN#00
9	6/12/95	BCL	DWS	DJM	INCORP MMOD 94-578 CA#0
8	12/9/94	DWS	BCL	MHO	INCORP MMOD 930545 CA#0
7	8/16/91	MRB	JM	1W	INCORP DCR 86-554, C&D
6	2/5/90	MRB	APL	1W	INCORP DCR 86-572 CA 02
5	4/21/89	MRB	GPM	MAC	INCORP DCR 87-265 CA 4 ADDED NOTE 5 AND P&ID LEGEND NOTE
4	6/8/87	MPW	DWS	MAC	INCORP 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	INCORP DCR 828
2	12/28/86	JDM	PAL	RRC	ADDED CONT REF COORDS, INCORP. ECA 06/112930A, REMOVED 8" COP LINES FROM THIS DWG. THESE LINES ARE DETAILED ON DWG MAH-20504.
1	10/17/86	JDM	MPW	RRC	ADDED LINE NO & ISOMETRIC NO TO WLD LINE, ADDED REFERENCE DRAWING. RESOLVED CHANGE ITEM NO 1 PER REVIEW OF U&C DWG 804959
0	06/12/86	DWS	JDM	WFD	INCORP ECA 06/118325A ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

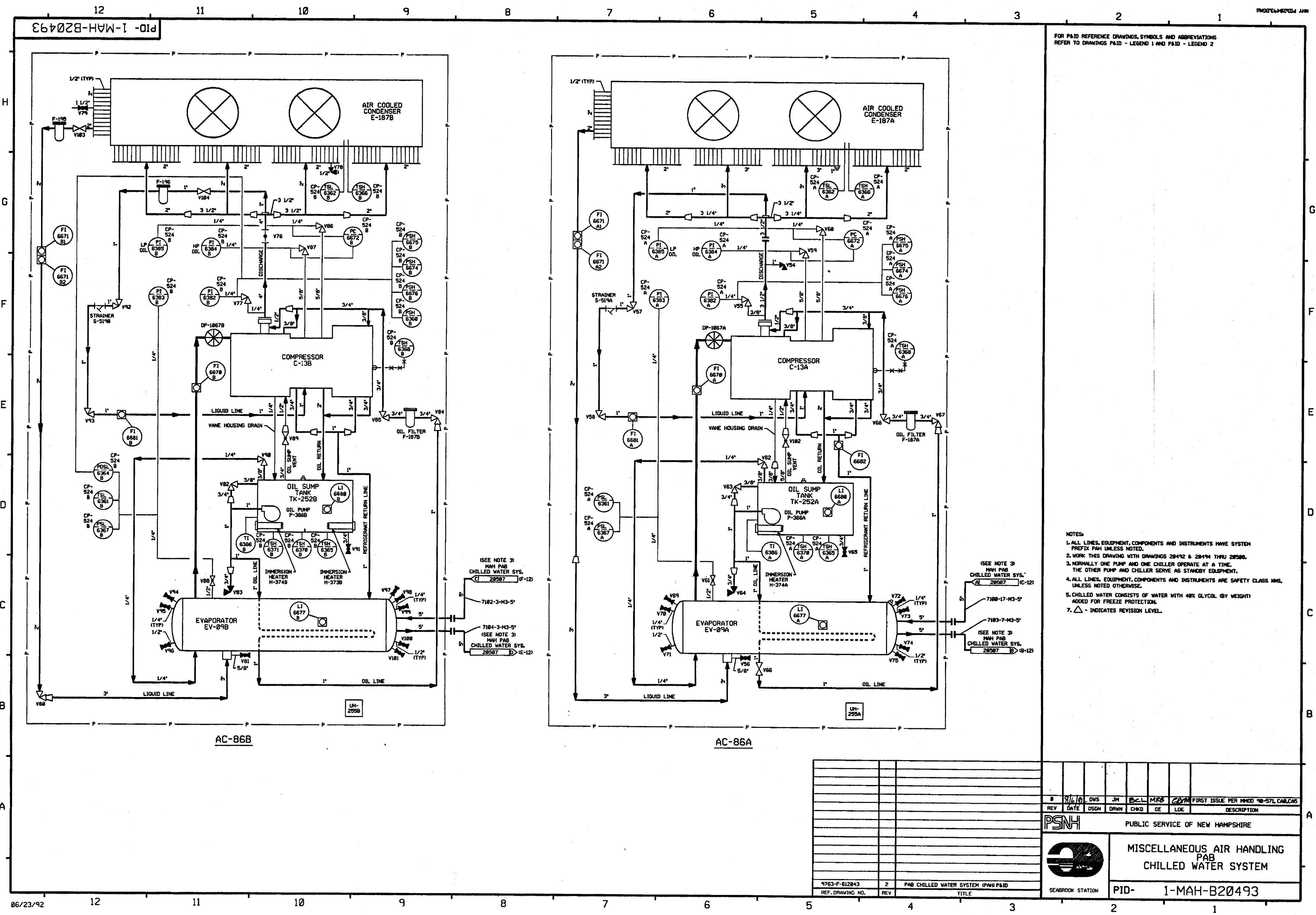
Seabrook Station



MISCELLANEOUS AIR HANDLING  
PAB & RHR VAULTS DETAIL

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 DIAGRAM
REF. DRAWING NO.	REV	TITLE



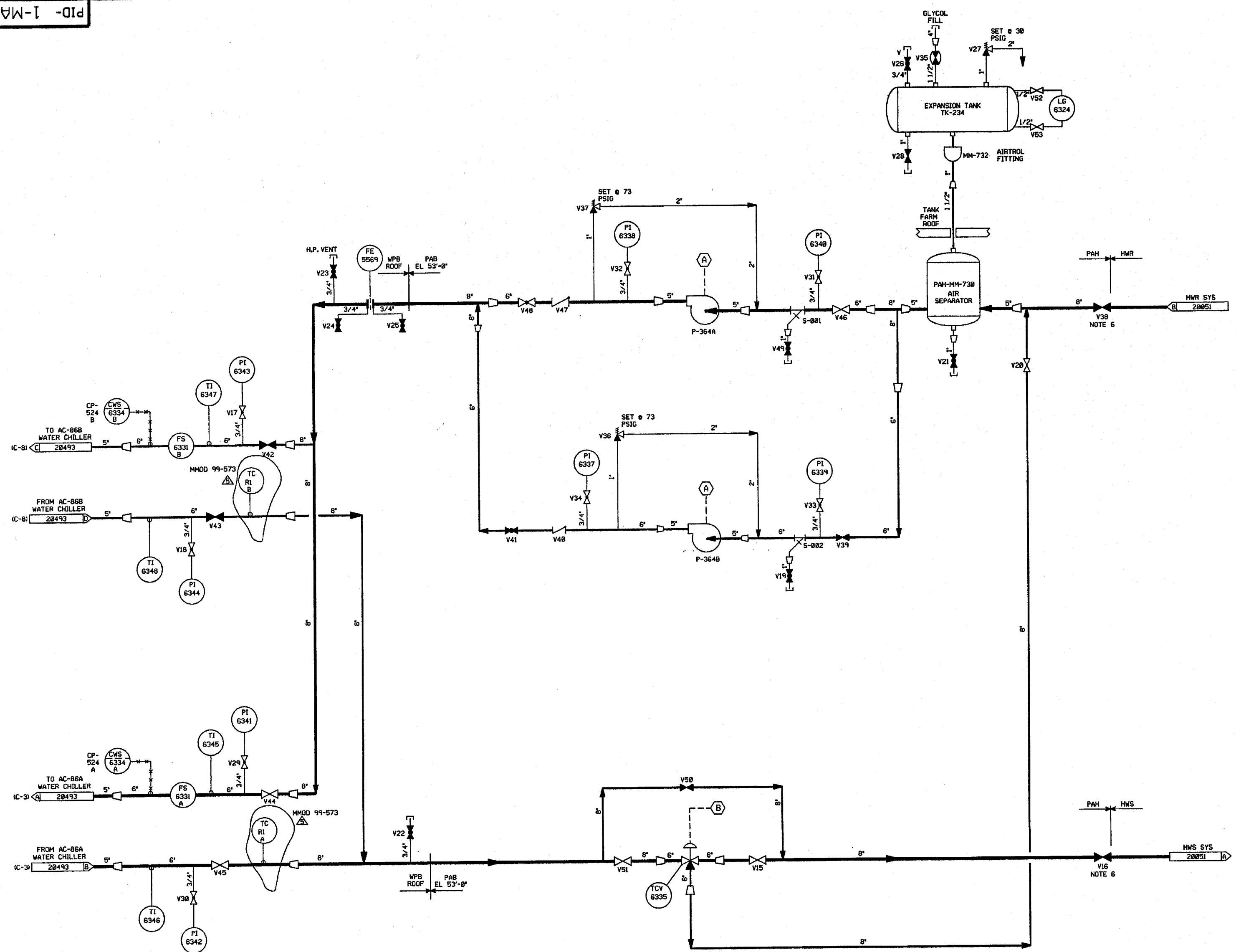
FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX PAH UNLESS NOTED.
  2. WORK THIS DRAWING WITH DRAWINGS 28492 & 28494 THRU 28500.
  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 MMS, UNLESS NOTED OTHERWISE.
  5. CHILLED WATER CONSISTS OF WATER WITH 40% GLYCOL (BY WEIGHT) ADDED FOR FREEZE PROTECTION.
  7.  $\Delta$  - INDICATES REVISION LEVEL.

9/6/90									
REV	DATE	DSGN	DRWN	CHKD	DE	LDE	FIRST ISSUE PER MMSD 90-571, CAB/CAS		
PSNH							PUBLIC SERVICE OF NEW HAMPSHIRE		
SEABROOK STATION							MISCELLANEOUS AIR HANDLING PAB CHILLED WATER SYSTEM		
PID- 1-MAH-B20493									

PID-1-MAH-B20507

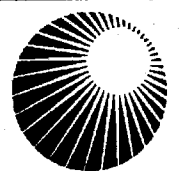
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX PAH UNLESS NOTED.
  2. WORK THIS DRAWING WITH DRAWINGS 20492, 20493 AND 20494 THRU 20506 & 20508.
  3. NORMALLY ONE PUMP AND ONE CHILLER SERVE AS STANDBY EQUIPMENT.
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, 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.

8. INSTRUMENT REFERENCES:
- (A) FROM CP-587
  - (B) FROM TIC-6335 ON DWG 20494

5	7/24/82	BCS	—	DWS	JWB	MAC	INCORP. MMOD 99-573 DCN-00
4	8/6/92	MRB	FCB	JH	BCL	GRM	INCORP. MMOD 98-571, CAB REVISED NOTE 4 PER NHY ENG DESIGN STD 31700 SEC 3.0 CLARIFIED LINE SIZE ON S-001
3	6/8/87	JDM	TAK	DWS	BCL	MAC	VALVES V42 & V43 SHOWN CLOSED, VALVES V44 & V45 SHOWN OPEN, INCORP. ECA 99/115097C APPROVED CHANGE ITEM 1 PER FIELD COMPLETION OF ILL PAH-504
2	3/6/87	WDS	TAK	MRJ	BCL	RRC	UPDATE IMPULSE DESIGNATION BETWEEN TIC 6335 & TCV 6335, ADDED NIPPLE & CAP ON VLVs V25 & V28 PER ERECTION ISO'S, ADDED P&ID LEGEND NOTE, REVISED REF DWG REVISION NO, REVISED CHILLER ARRANGEMENT PER CHANGE ITEM $\Delta$ , CORRECTED DRAFTING ERRORS.
1	9/12/86	JDM	DWS	HAP	BCL	RRC	INCORP. ECA 99/117512A & ECA 99/117529A
0	6/13/86	WES	WES	JDM	DFM	WFD	ISSUED FOR OPERATIONS AND INCORP. ECA'S 02/114659A & 13/022722A
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

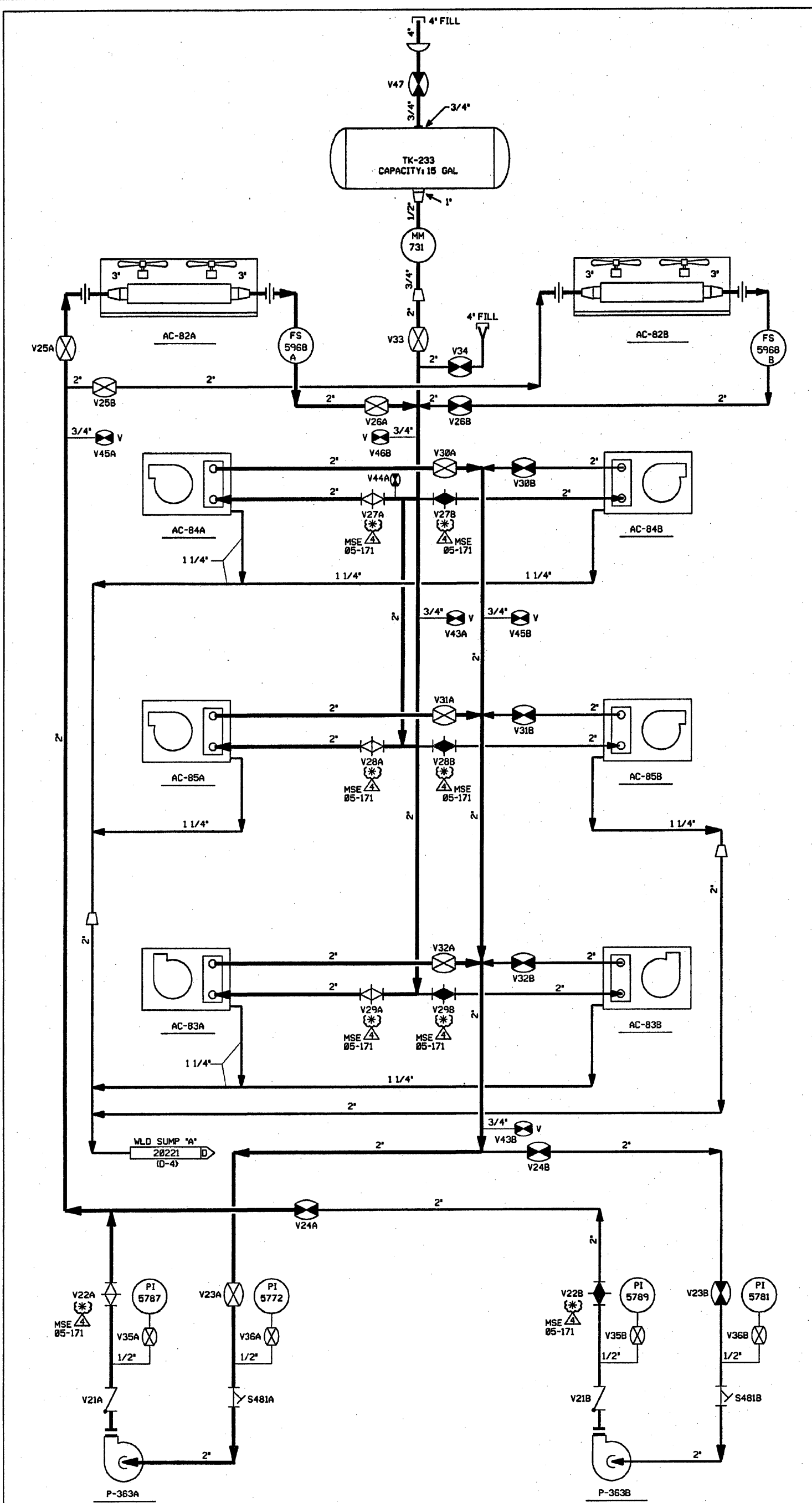
**North Atlantic** Energy Service Corporation

MISCELLANEOUS AIR HANDLING  
PAB  
CHILLED WATER SYSTEM

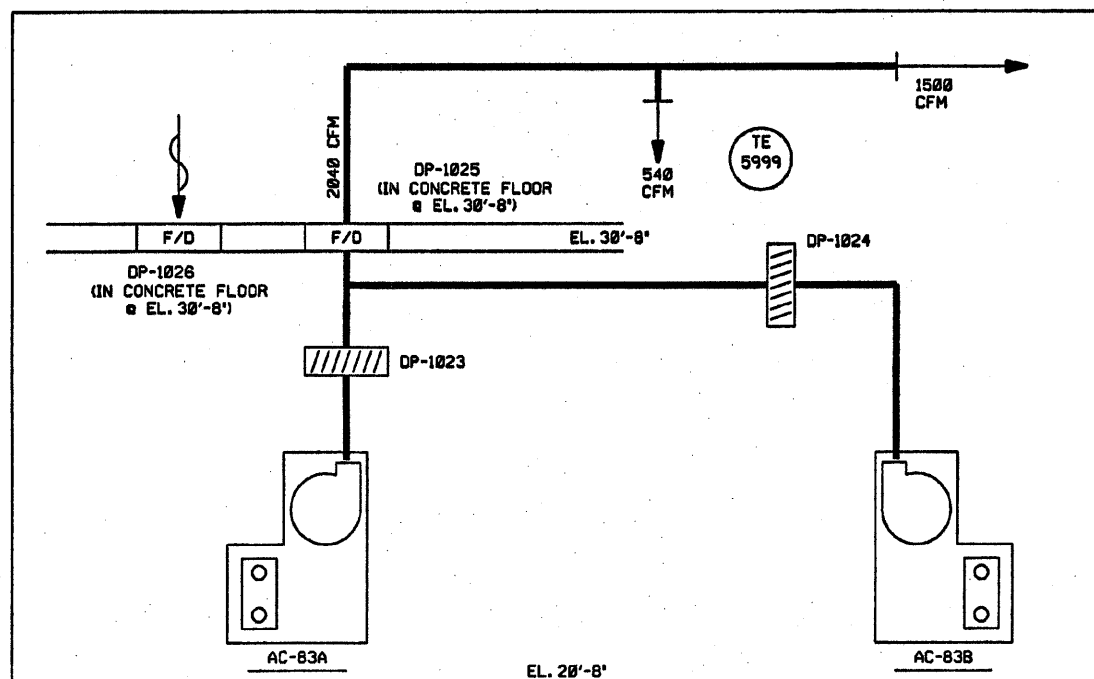
PID-1-MAH-B20507

9763-F-612043	2	PAB CHILLED WATER SYSTEM (PAB) P&ID
REF. DRAWING NO.	REV	TITLE

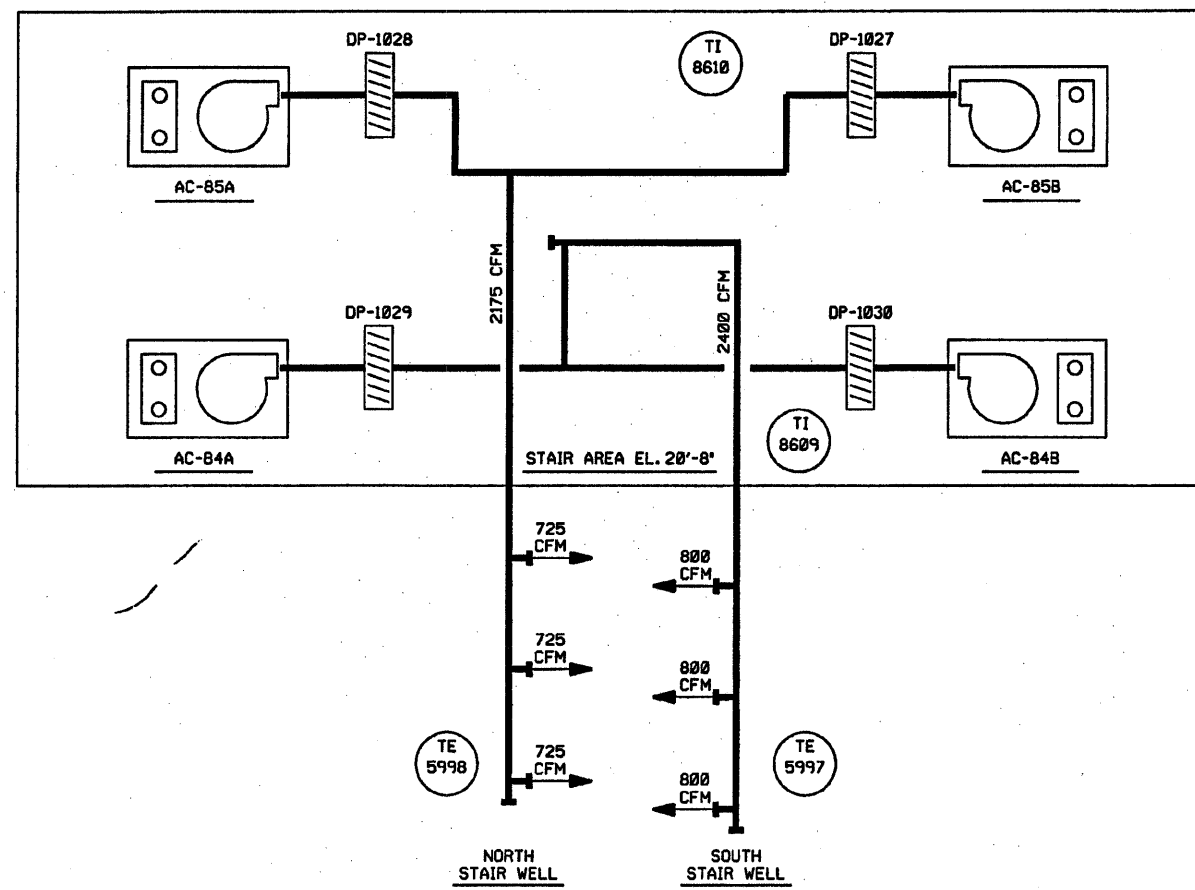




GLYCOL FLOW DIAGRAM



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

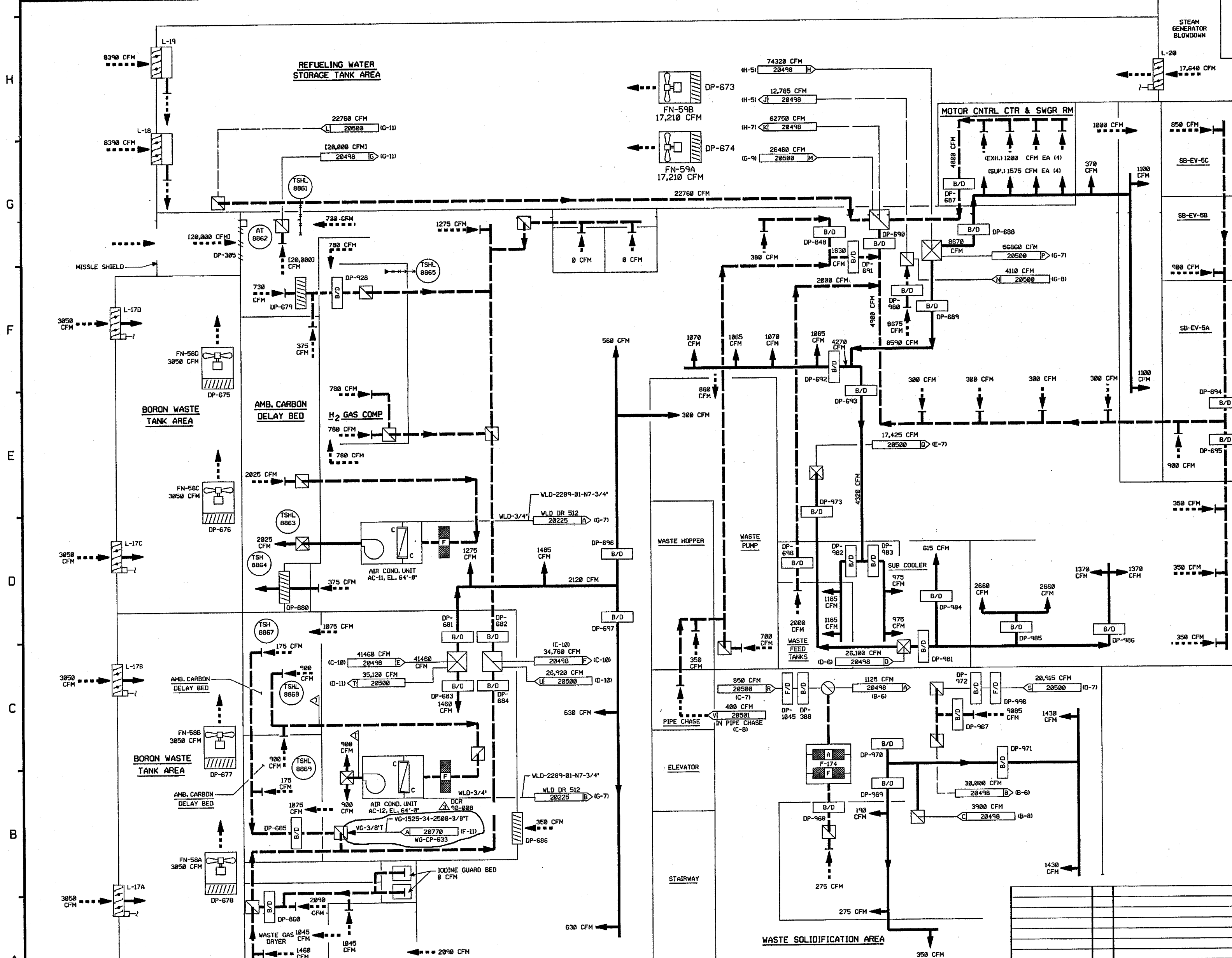
REF. DRAWING NO.	REV	TITLE
9763-F-612041	3	GLYCOL, AIR FLOW DIAG. AC SYST. ELECT. VAULT & STAIRS

PID- 1-MAH-B20498

9763-F-604518	3	WASTE PROC. BLDG., VENT. SYS., AIR FLOW-4
9763-F-604520	18	WASTE PROC. BLDG., VENT. SYS., AIR FLOW-1
REF. DRAWING NO.	REV	TITLE

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 WWP (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		WWS	MAC	INCORP. DCR '98-008 DCH 00
2	4/9/97	DAP	TAK	LFC	BCL	REVISED REV. 1 SIGNOFF DATE ERROR
1	3/12/97	WDS	MPW	MRJ	BCL	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	ISSUED FOR OPERATIONS & INCORP. ECS'S 06/882481A & 14/113829A
REV	DATE	DSGN	DRWN	CHKD	CODE	DESCRIPTION

**North Atlantic** Energy Service Corporation

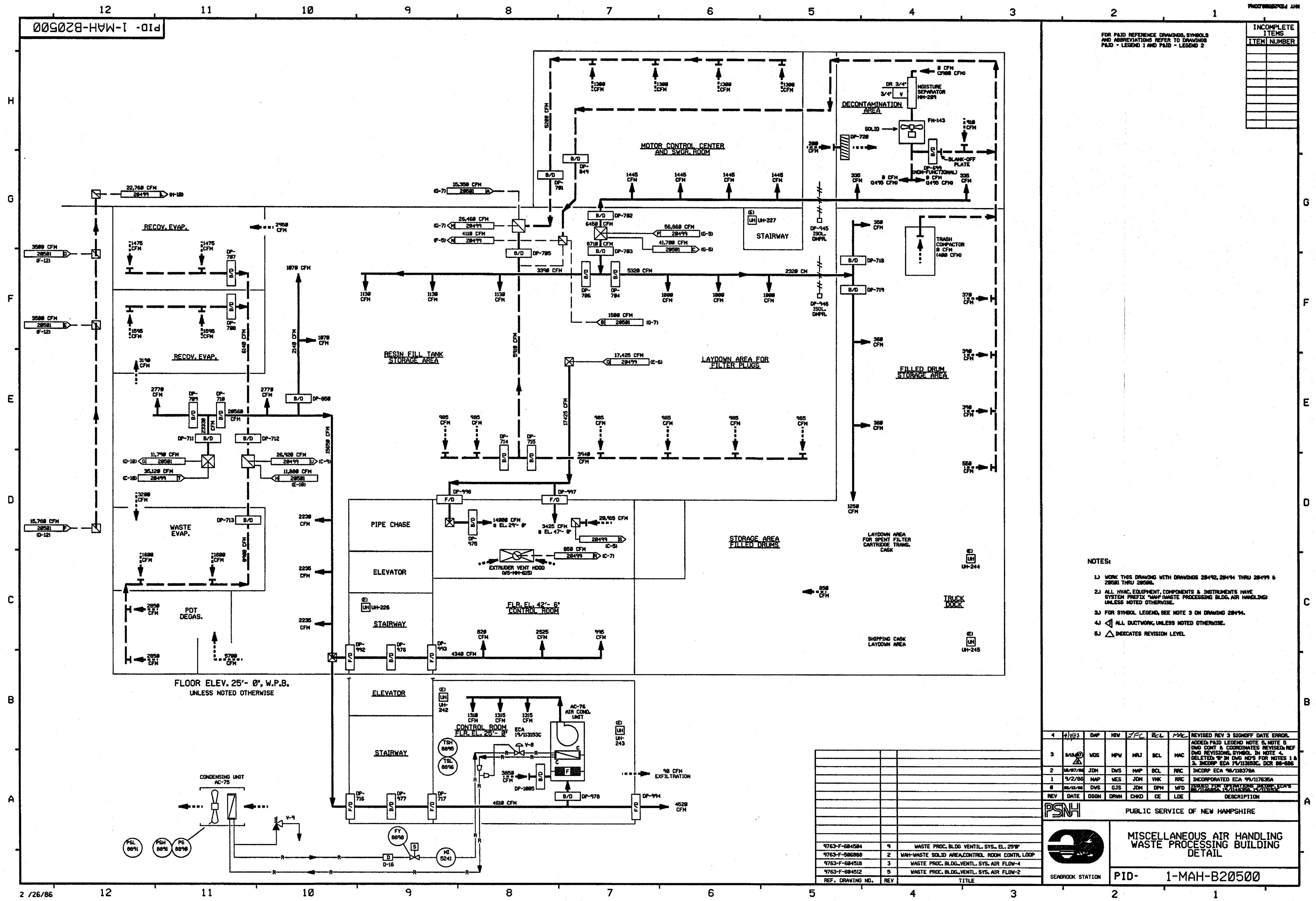


MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

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






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


INCOMPLETE ITEMS	
ITEM	NUMBER

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 28492, 28494 THRU 28499 & 28501 THRU 28508.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX "WMP" WASTE PROCESSING BLDG. AIR HANDLING UNLESS NOTED OTHERWISE.
  - 3) FOR SYMBOL LEGEND, SEE NOTE 3 ON DRAWING 28494.
  - 4) ALL DUCTWORK UNLESS NOTED OTHERWISE.
  - 5)  $\Delta$  INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
1	4/10/81	DAP	HW	ZFC	R-L	MAL	REVISED REV 3 SIGNOFF DATE ERROR.
3	3/18/82	WDS	MPV	HLJ	BCL	MAC	ADDED PAID LEGEND NOTE 5, NOTE 6 Dwg CONT. & COORDINATES REVISION REF Dwg REVISIONS, SYMBOL IN NOTE 4, DELETED "B" IN Dwg NO'S FOR NOTES 1 & 2, INCORP. ECA 98/118378A, DCR 88-686
2	10/27/82	JDM	DWS	MAP	BCL	RRR	INCORP. ECA 98/118378A
1	9/2/83	MAP	MES	JDM	VNK	RRR	INCORPORATED ECA 99/117635A
8	88/12/88	DWS	GJS	JDM	DPH	WFD	ISSUED FOR OPERATIONS "WASTE" ECA 98/118378A, 98/118378B, 98/118378C



PUBLIC SERVICE OF NEW HAMPSHIRE



SEABROOK STATION

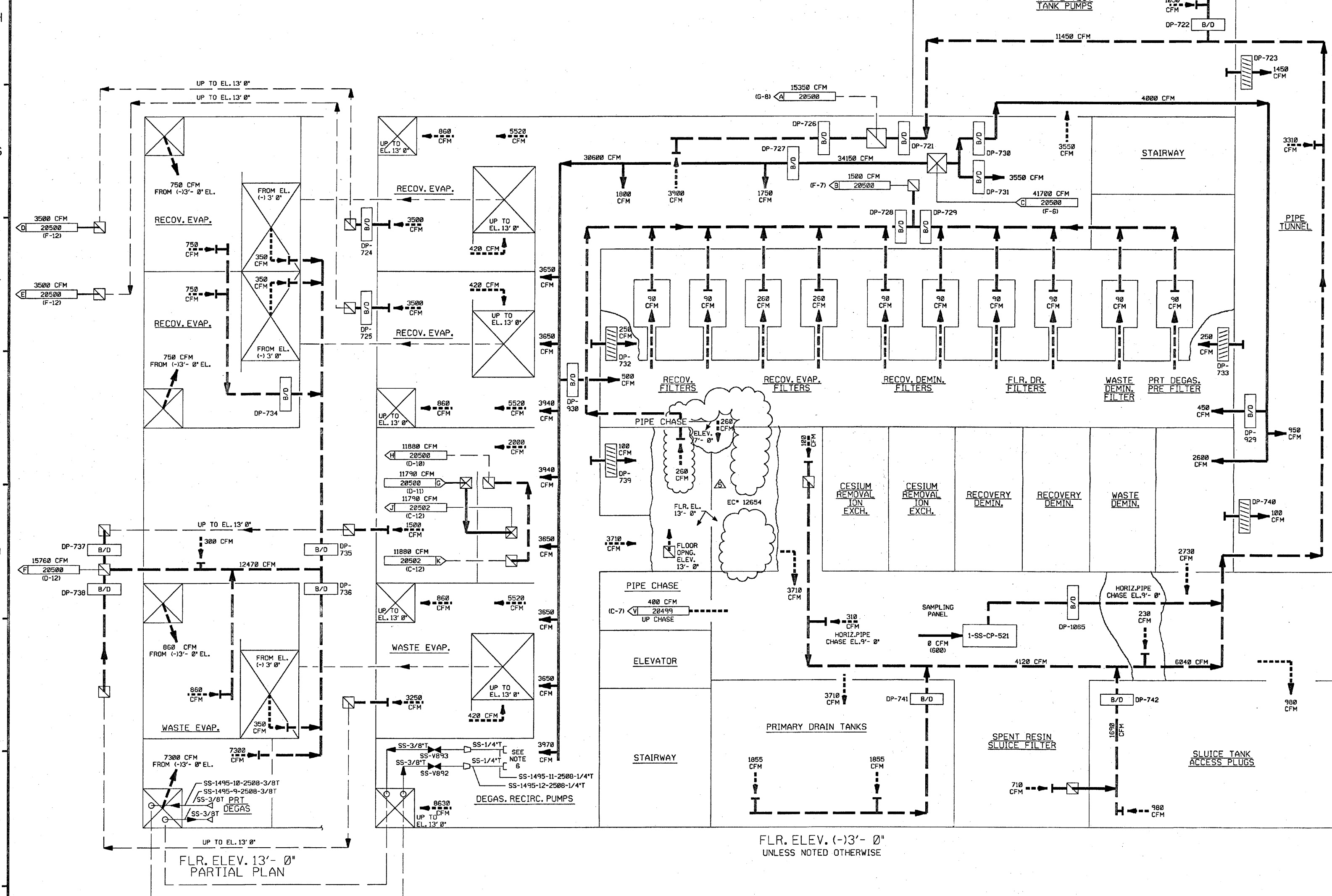
MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20500

REF. DRAWING NO.	REV	TITLE
9763-F-684584	9	WASTE PROC. BLDG. VENTIL. SYS. EL. 25'W
9763-F-586888	2	WMP-WASTE SOLID AREA CONTROL ROOM CONTR. LOOP
9763-F-684518	3	WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-1
9763-F-684512	5	WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-2

10500-B20501-1 -PID-

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

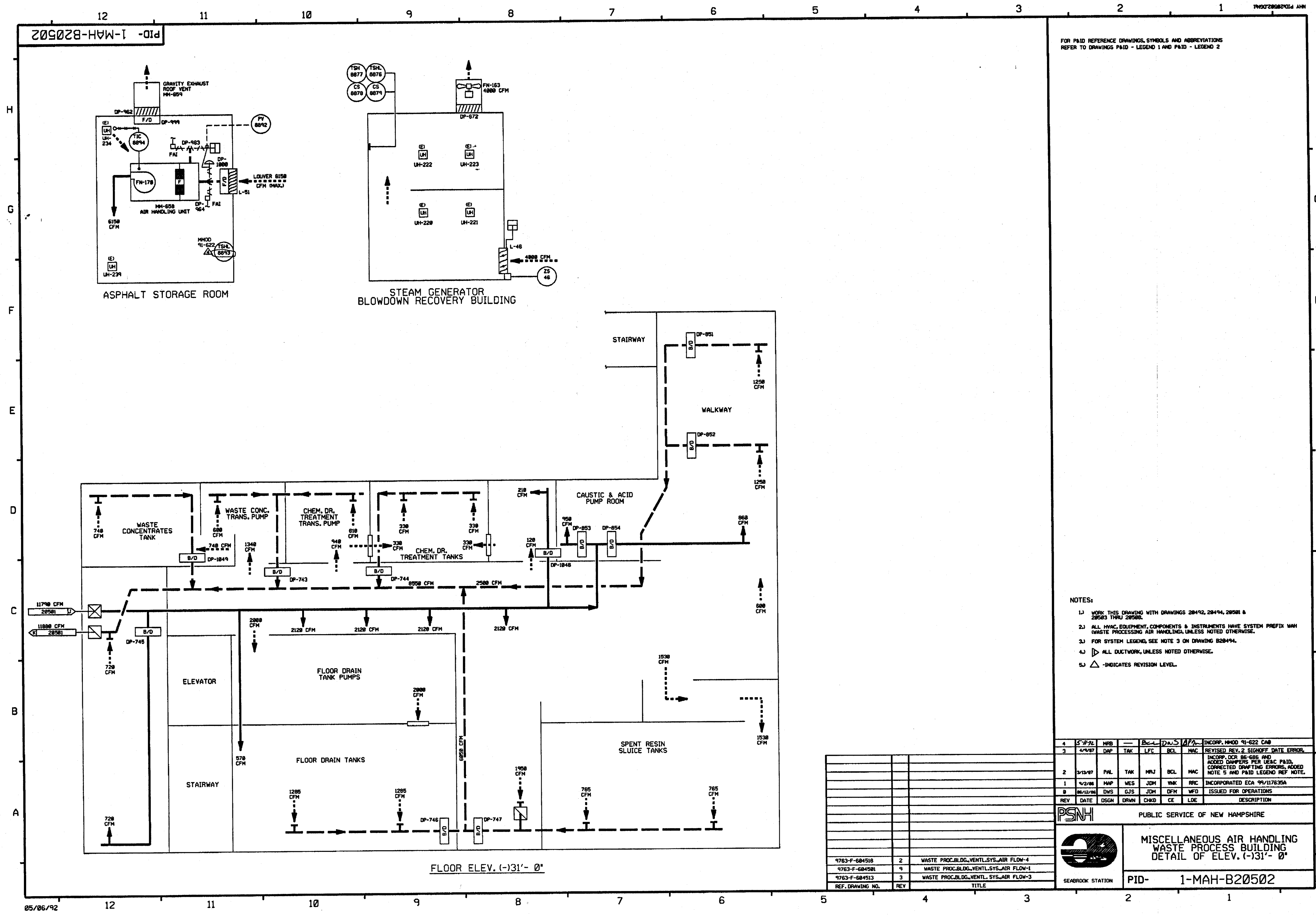


NOTES:

- 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	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

		<b>MISCELLANEOUS AIR HANDLING WASTE PROCESSING BUILDING DETAIL</b>	
9763-F-684513	3	WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-3	
REF. DRAWING NO.	REV	TITLE	
PID-	1-MAH-B20501		

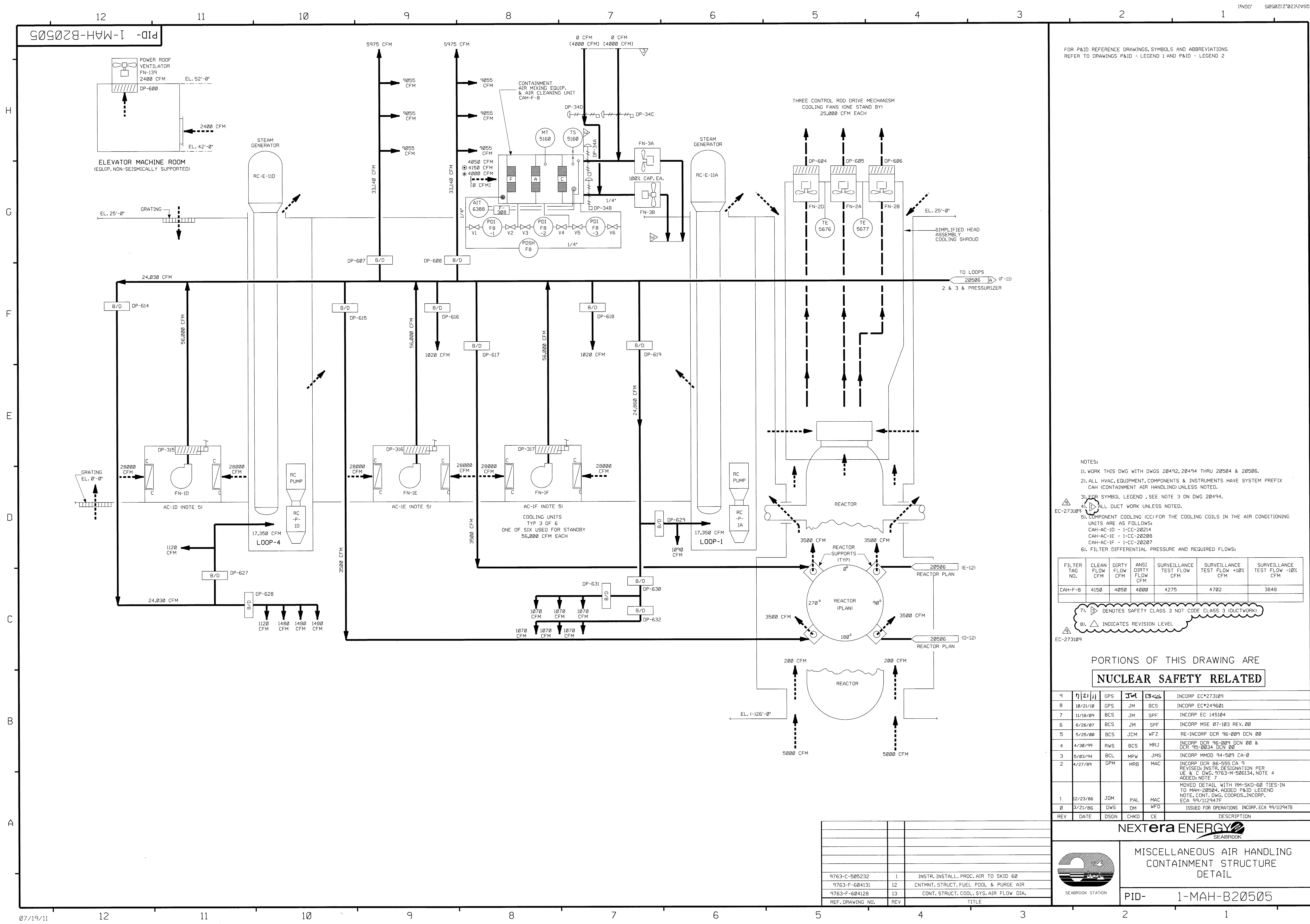


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 28492, 28494, 28501 & 28503 THRU 28506.
  - 2. ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX W&H (WASTE PROCESSING AIR HANDLING), UNLESS NOTED OTHERWISE.
  - 3. FOR SYSTEM LEGEND, SEE NOTE 3 ON DRAWING 28494.
  - 4. ALL DUCTWORK, UNLESS NOTED OTHERWISE.
  - 5.  $\Delta$  - INDICATES REVISION LEVEL.

4	5/7/92	MRB	---	BCL	DWS	APR	INCORP. M&O 91-622 C&B
3	4/9/97	DAP	TAK	LFC	BCL	MAC	REVISED REV. 2 SIGNOFF DATE ERROR.
2	3/13/97	PAL	TAK	NRJ	BCL	MAC	INCORP. DCR 86-686 AND ADDED DAMPERS PER U&C P&ID. CORRECTED DRAFTING ERRORS, ADDED NOTE 5 AND P&ID LEGEND REF. NOTE.
1	1/2/86	HAP	WES	JDM	W&H	RRC	INCORPORATED ECA 99/117635A
0	86/12/86	DWS	GJS	JDM	DFM	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
PSNH							PUBLIC SERVICE OF NEW HAMPSHIRE
SEABROOK STATION							MISCELLANEOUS AIR HANDLING WASTE PROCESS BUILDING DETAIL OF ELEV. (-)31'-0"
PID-1-MAH-B20502							
9763-F-684510	2	WASTE PROC.BLDG.VENTL.SYS.AIR FLOW-4					
9763-F-684508	1	WASTE PROC.BLDG.VENTL.SYS.AIR FLOW-1					
9763-F-684513	3	WASTE PROC.BLDG.VENTL.SYS.AIR FLOW-3					
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 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-11 - 1-CC-20208  
CAH-AC-12 - 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

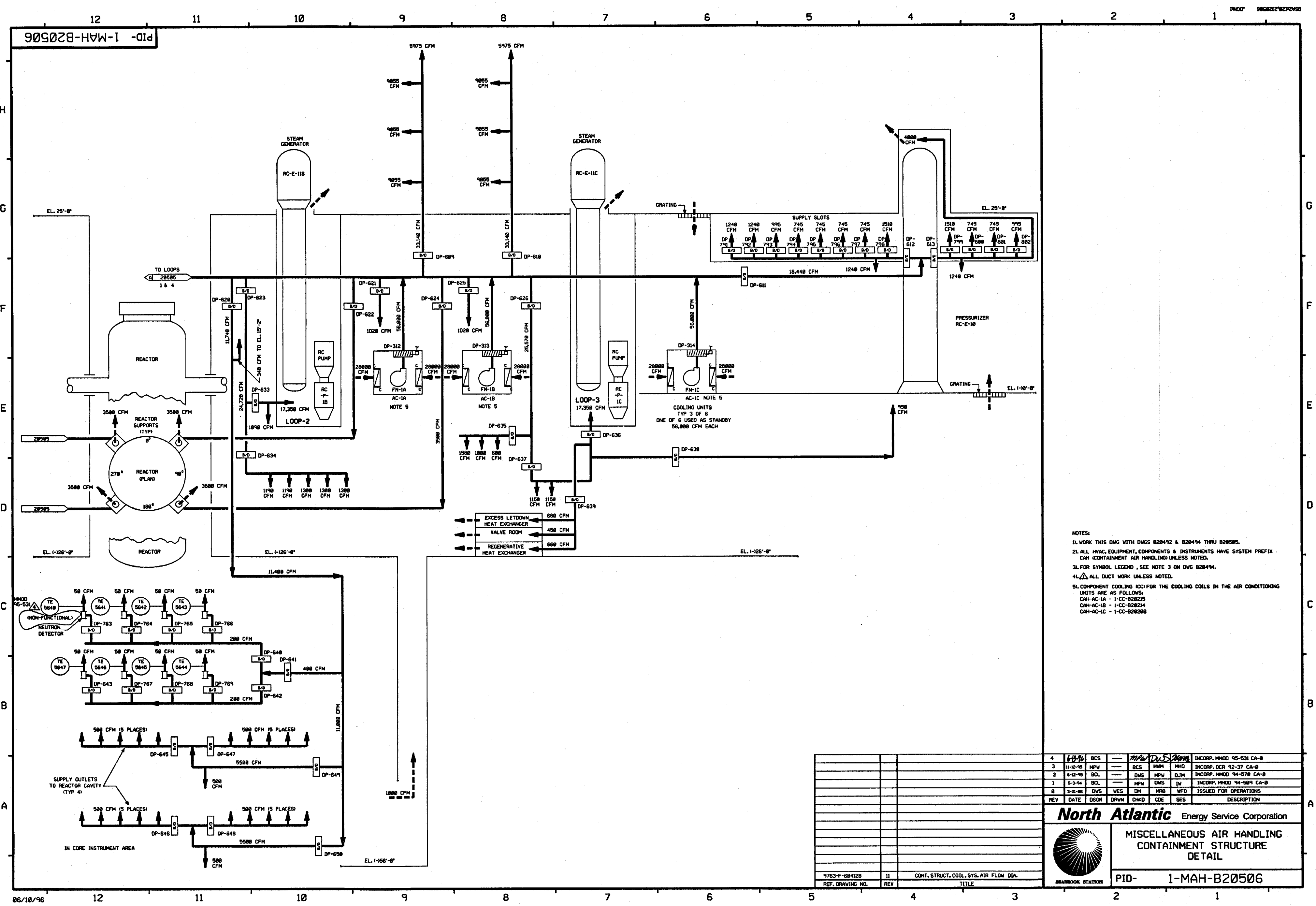
**NEXTERA ENERGY**  
SEABROOK



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	6-14-96	BCS	—	MD	DCS	MD	INCORP. HMD 95-531 CA-8
3	11-12-95	MPW	—	BCS	MD	MD	INCORP. DCR 92-37 CA-8
2	6-12-95	BCL	—	DWS	MPW	DJM	INCORP. HMD 94-578 CA-8
1	5-3-94	BCL	—	MPW	DWS	IV	INCORP. HMD 94-580 CA-8
0	3-21-95	DWS	WES	DM	HRB	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
<b>North Atlantic</b> Energy Service Corporation							
MISCELLANEOUS AIR HANDLING CONTAINMENT STRUCTURE DETAIL							
PID- 1-MAH-B20506							

9763-F-604128  
REF. DRAWING NO.

11  
REV

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

PID-1-MAH-B20504

RM-SKD-60

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 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 & REQUIRED FLOWS:

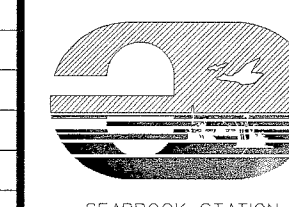
FILTER TAG NO.	CLEAN FLOW CFM	DIRTY FLOW CFM	ANSI FLOW CFM	SURVEILLANCE TEST FLOW CFM	SURVEILLANCE TEST FLOW +10% CFM	SURVEILLANCE TEST FLOW -10% CFM
CAP-F-40	15900	15300	15000	15450	16995	13905

6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM SIDE OF THE OUTER ISOLATION VALVE PER 1-NHY-885111 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 REFUELING OUTAGES, ATTACH TEMP. TUBING TO HIGH SIDE AND ROUTE TO OUTSIDE AMBIENT.

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

28	10/15/10	GPS	BJS	DM	INCRP EC 249830
27	10/9/09	BCS	JM	STB	INCRP EC12721
26	2/4/09	BCS	JM	SPF	INCRP MSE 09-009 REV. 0
25	4/14/08	BCS	JM	JME	INCRP MMOD 06-527 DCN-00
24	12/8/04	BCS	JM	RRB	INCRP CR 04-09401 REV 00
23	9/4/03	BCS	JM	MKC	INCRP SYSTEM FINAL CONFIGURATION PER DCR 00-21 DCN-00
22	1/27/03	JM	MPW	BCS	INCRP CR 00-04963 REV 00, REVISED VALVE SYMBOL
21	10/20/00	DWS	BCS	MKC	INCRP DCR 000021 DCN-00
20	6/2/98	DWS	BCS	HMM	INCRP MMOD 970618 DCN-00
19	6/2/95	DRL	MPW	VWS	INCRP MMOD 97-521 DCN-00
18	12/2/95	MPW	BCS	RJF	INCRP MMOD 95-508 CA-0
17	11/6/95	BCL	MPW	RRC	INCRP DCR 95-003 CA-0
16	6/12/95	BCL	DJM	INCRP MMOD 94-570 CA-0	
15	4/28/94	MPW	BCL	WZ	INCRP DCR 92-014 CA 7
14	2/3/94	BCL	MRB	WZ	INCRP MMOD 93-524 CA-0
13	10/2/92	BCL	MRB	BAW	INCRP DCR 90-14 CA14
12	4/14/92	MRB	DWS	JEV	INCRP MMOD 91-515 CA0
11	9/18/91	GPM	JM	MAC	INCRP DCR 90-14 CA02
10	2/26/91	MRB	JM	BCL	INCRP DCR 86-535 CA01 & MMOD 86-548 CA01
9	1/23/90	MRB	APL	GRM	INCRP MMOD 89-506 CA 0 AND MMOD 89-508 CA 0
8	4/27/89	GPM	MRB	MAC	INCRP DCR 86-555 CA 9 REVISED VALVE SYMBOLS PER FP 73290, NOTE 6 DELETED; NOTE 7 & 9
7	5/12/87	MPW	HIW	VWS	DELETED CHANGE ITEM  PER DCR 87-135
6	4/9/87	DAP	LFC	MAC	REVISED REV 5 SIGNOFF DATE ERROR.
5	3/13/87	MRJ	JDM	MAC	REVISED SYS PREFIX FOR VLV'S ON RM-SKD-60, REVISED CAH-V8 TO GLOBE VLV PER ECA 99/10001010, ADDED SENSING LINES AND REMOVED RACK MTD. SYMBOLS PER EXISTING CONFIGURATION, ADDED NOTE 9 AND CHANGE ITEM 1.
4	12/23/86	JDM	PAL	RRC	ADDED CONTINUATION DWG COORDINATES, INCRP ECA 99/1129477
3	10/17/86	JDM	MPW	RRC	INCRP ECA 96/1189999
2	10/9/86	JDM	MAP	RRC	ADDED NOTE 7, 8 & P&ID LEGEND. INCRP DETAILS FOR RM-SKD-60.
1	6/24/86	DWS	VNK	RRC	INCRP ECA 06/802001C & 98/117840A
0	3/4/86	DWS	DM	WFO	ADDED LINE SIZES & REV REF DWGS. UPDATE PER LATEST UE&C P&ID INCRP ECA 99/1129478
REV	DATE	DSGN	CHKD	CE	ISSUED FOR OPERATIONS
					DESCRIPTION

**NEXTERA ENERGY**  
SEABROOK

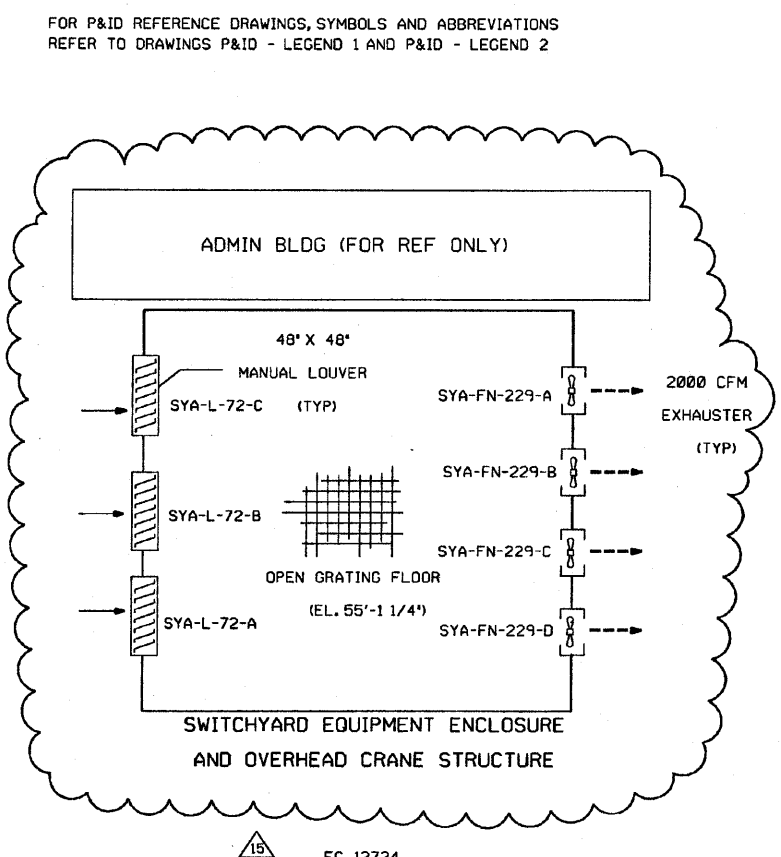
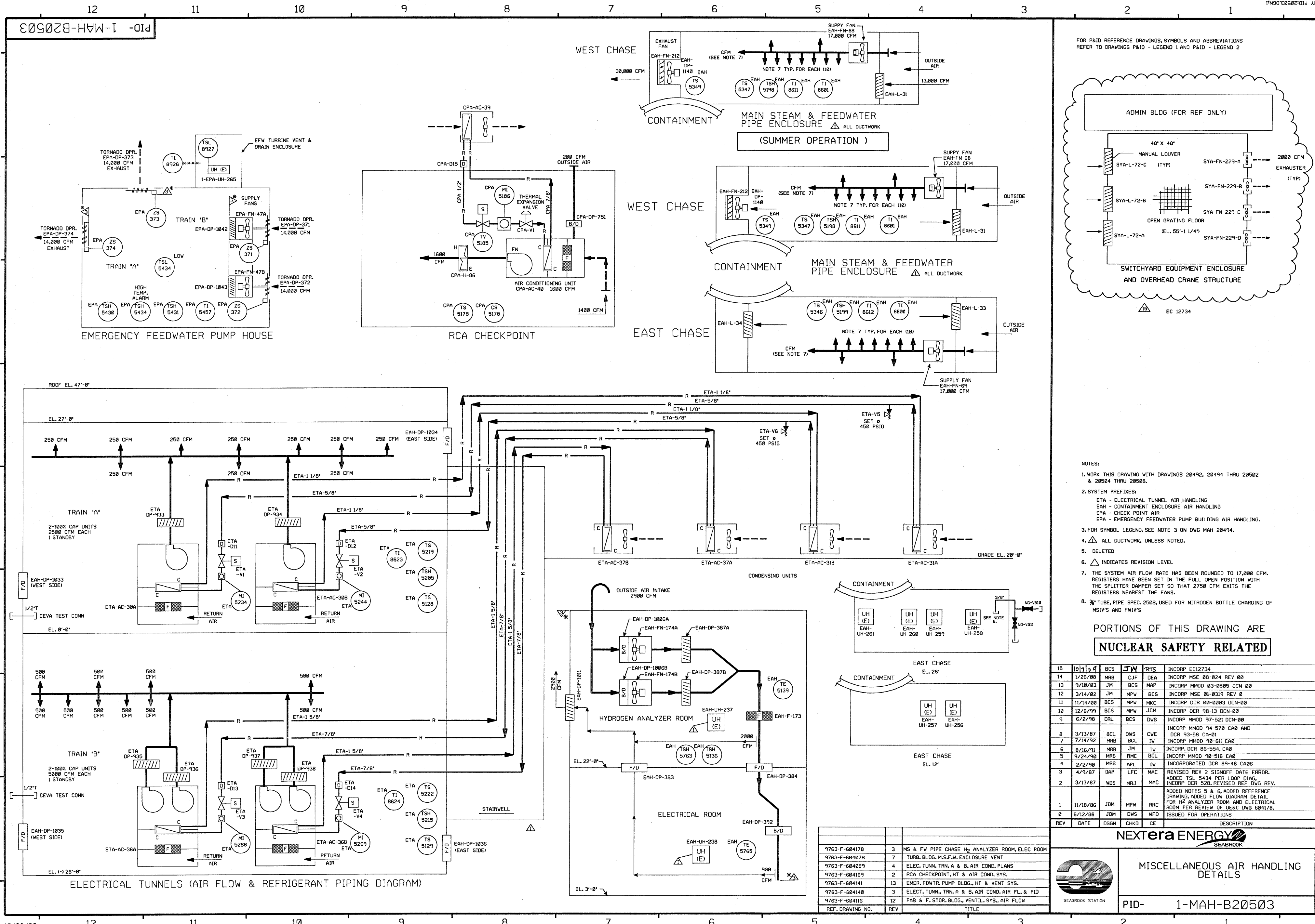


MISCELLANEOUS AIR HANDLING  
CONTAINMENT & PURGES  
DETAIL (COP, CAP)

PID-1-MAH-B20504

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





- 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 H2/S2 AND F2/S2

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	12/6/79	BCS	MPW	JCM	INCORP DCR 98-13 DCN-00
9	6/2/78	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	W	INCORP MMOD 90-611 CA0
6	8/16/91	MRB	JM	W	INCORP DCR 86-554, CA0
5	9/24/90	MRB	RMC	BCL	INCORP MMOD 90-516 CA0
4	2/2/90	MRB	APL	W	INCORP 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 526, 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 604170.
0	8/12/86	JDM	DWS	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

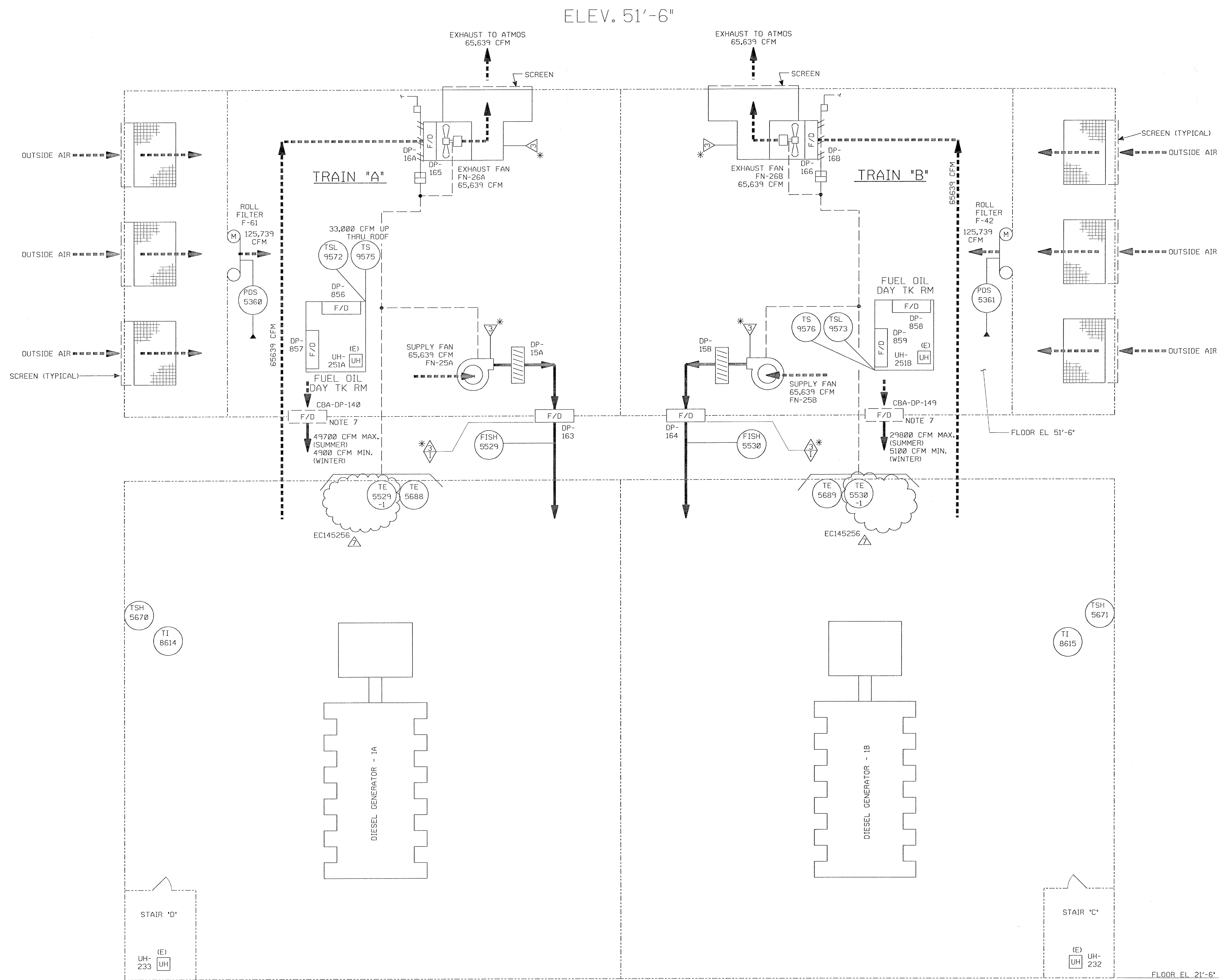
**NEXTERA ENERGY**  
SEABROOK STATION

MISCELLANEOUS AIR HANDLING DETAILS





PID- 1-MAH-B20503



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



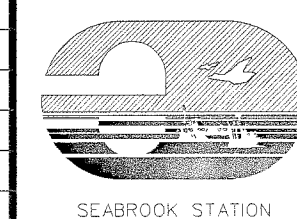
NOTES:

1. 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-B203B3.
8.  INDICATES REVISION LEVEL.

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

7	6/22/60	BCS	JWM	CM	INCOMP EC145256
6	11/16/65	JM	BCS	RRB	INCOMP MMDD 03-504 DCN 00
5	3/24/40	DWS	BCS	JMS	INCOMP DCR 980039 DCN#00 & 20
4	6/12/95	BLM	DSW	DJM	INCOMP MMDD 99-1578 CA-0
3	12/1/94	PCW	DWS	JPS	INCOMP DCR 93-44
2	12/15/89	MRB	PAL	MAC	INCORPORATED DCR 87-425 CA ADDED P & ID LEGEND 1 & 2 NOTE.
1	2/24/87	WDS	PAL	INW	REVISE REF DOW REVISIONS INCOMP DCR 528 ISSUED FOR OPERATIONS & INCOMP DCR EACA'S 99/1126808 & 99/114402A
0	5-28-86	WES	JDM	WFO	
REV	DATE	DSGN	CHKD	CD	DESCRIPTION

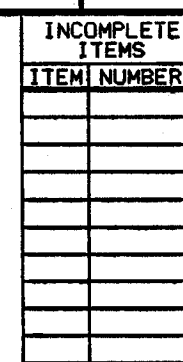
**NEXTERA ENERGY**  
SEABROOK




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



NOTES:

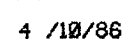
- 1.) WORK THIS DRAWING WITH DRAWINGS 28849 THRU 28856.
- 2.) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MWS,  
UNLESS NOTED OTHERWISE
- 3.)  -INDICATES REVISION LEVEL.

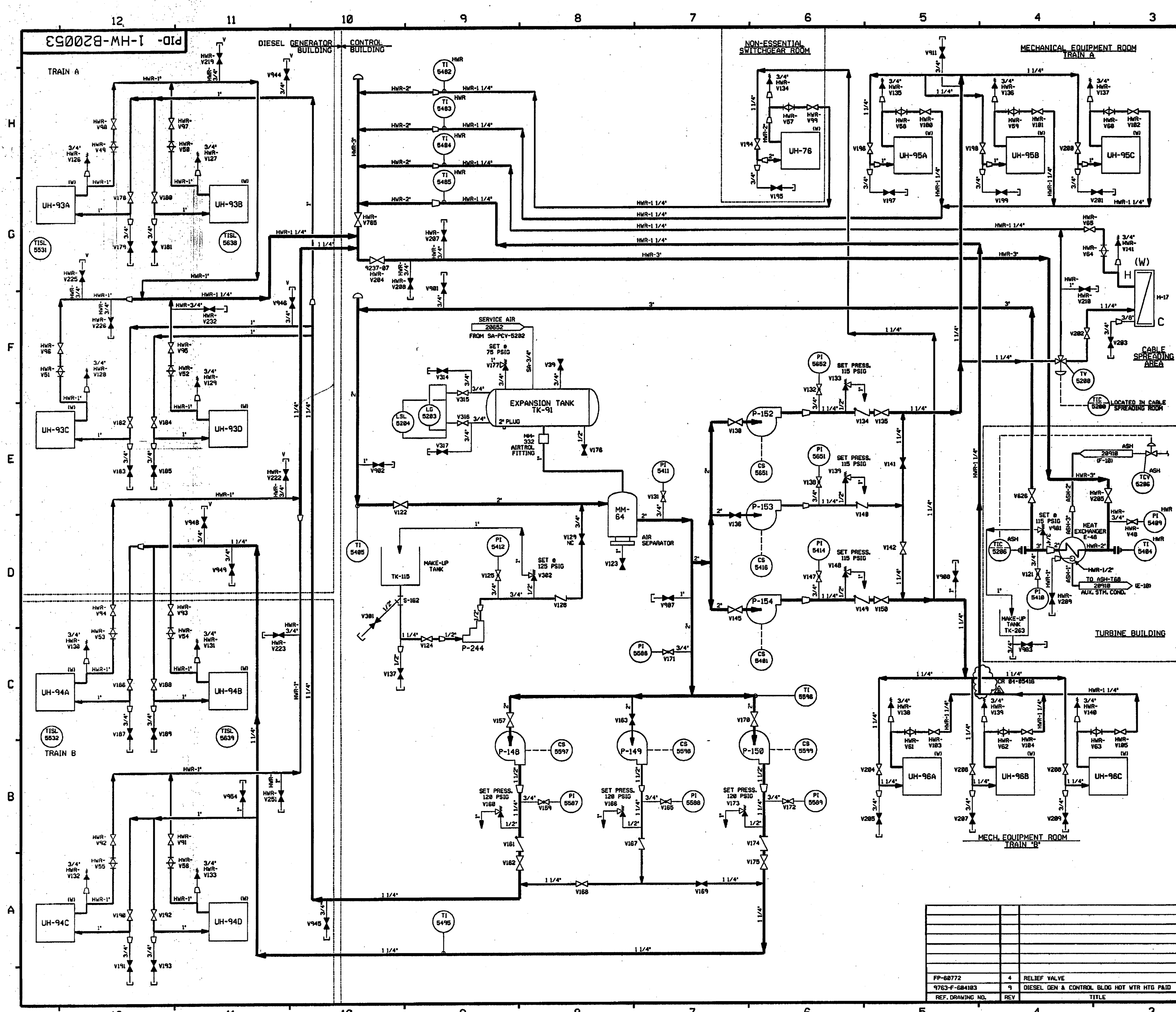
PSNH PUBLIC SERVICE OF NEW HAMPSHIRE

HOT WATER HEATING SYSTEM  
OVERVIEW  
SHEET 1

PID- 1-HW-B20048

FF-68776	3	RELIEF VALVES
763-F-684141	14	EMERG. FD. VALVE PUMP BLDG MTG SYS P & ID
FF-68772	3	RELIEF VALVES
763-F-684013	9	DIESEL GEN & CONTROL BLDG MTG SYS P & ID
763-F-684037	9	P.A.B. & FUEL STORAGE BLDG HOT WTR MTG P & I
763-F-684519	3	W.P.B. SOLIDIFICATION AREA HOT WTR MTG P & I
763-F-684514	5	WASTE PROCESS BLDG HOT WTR MTG P & ID
REF. DRAWING NO.	REV	TITLE





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

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 20048 THRU 20052 AND 20056.
  - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS, HAVE SYSTEM PREFIX HWS, UNLESS NOTED OTHERWISE.
  - 3) ALL EQUIPMENT IN THIS SYSTEM IS SAFETY CLASS HWS, UNLESS NOTED OTHERWISE.
  - 4)  $\Delta$  INDICATES REVISION LEVEL.

6	7-22-64	BCS	JM	228	INCCP CR 84-05416 REV. 0
5	12-30-66	BCS	DMS	RSG	INCCP HMD 95-511 CA#8, 01
4	3-24-66	DWS	BCS	VNS	INCCP HMD 94-0574 CA#8
3	11-16-63	BCL	MRB	RSG	INCCP DCR-90-60, CA-8
2	5/8/92	MRB	MPW	BCL	INCCP HMD'S 91-511 CA#8, 91-622 CA#8 REVISED NOTE 3 PER ENG DESIGN STD 31780 SEC 3.8 LINE SIZE PER LEAC PID VENT VALVE V210 TO SHOW CLOSED
1	2/6/87	PHL	MPW	VNS	CHANGE ITEM 1 REVISED TO REFLECT AS-INSTALLED COND. REMOVED CAP & NIPPLE FROM V39 & REROUTED F-LINE FROM V32 TO REFLECT AS-INSTALLED COND. ADDED TISL'S NOTE 4, REF COND'S TO REF PLAS & 125 TO VLV.
0	5/17/86	VES	DWS	WFO	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

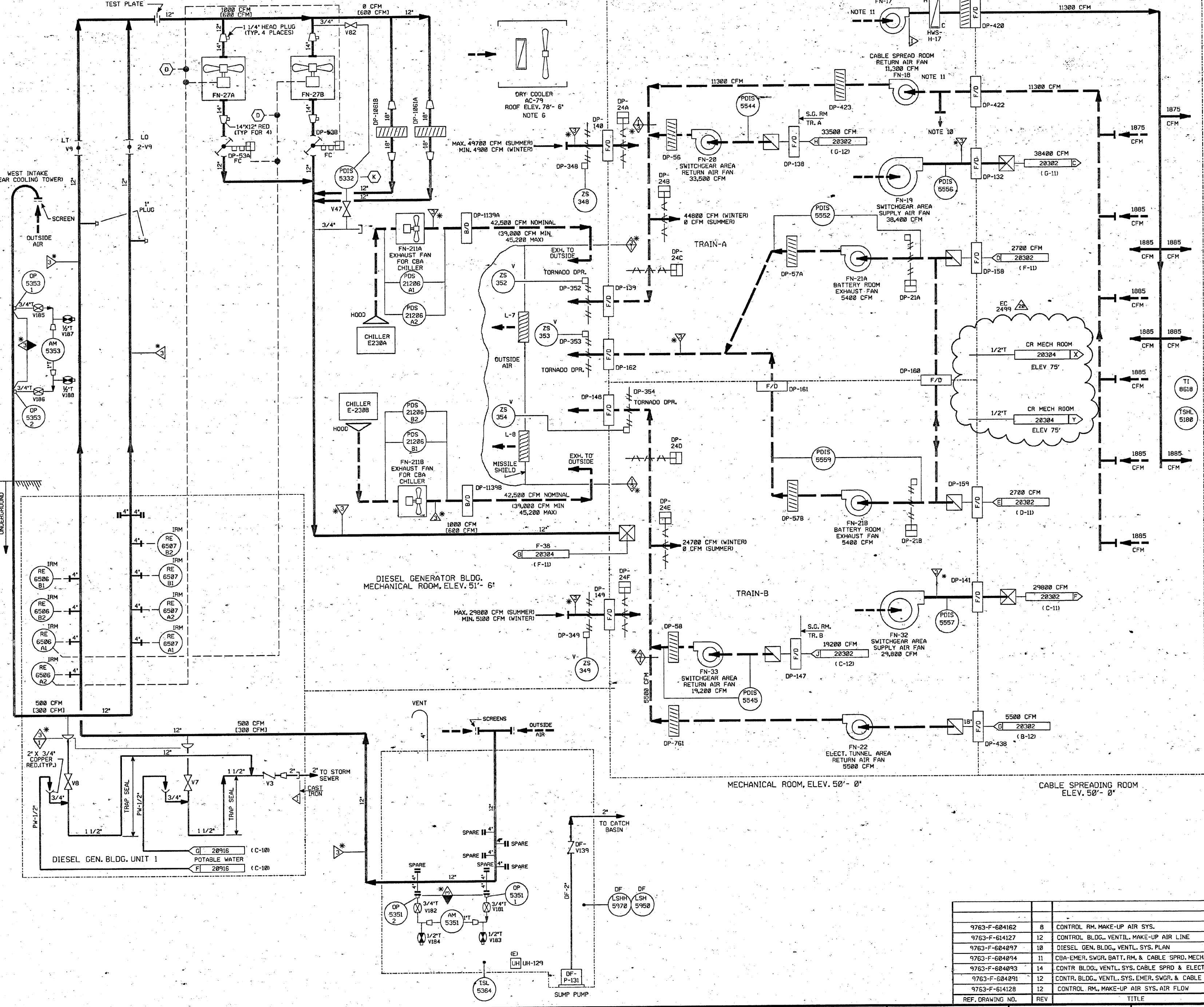
REV	DATE	DSGN	CHKD	CE	TITLE
FP-60772					RELIEF VALVE
9763-F-684183					DIESEL GEN & CONTROL BLDG HOT WTR HTG PAID
REF. DRAWING NO.					



PID-1-CBA-B20303

H  
G  
F  
E  
D  
C  
B  
A

4/16/89




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

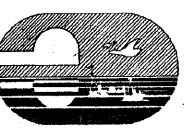
- NOTES:
1. WORK THIS DRAWING WITH 20300, 20302 & 20304 THRU 20306.
  2. ALL HVAC, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED.
  3. FOR SYMBOL LEGEND SEE DRAWING 20302.
  4. INSTRUMENT REFERENCES:
    - (A) INTERLOCK WITH 2-CBA-FN-27A & 2-CBA-DP-53B
    - (B) INTERLOCK WITH 2-CBA-FN-27B & 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	4/21/89	BCS	JM	CC	INCORP. ECA 2499		
19	12/22/85	BCS	JM	SPF	INCORP. CR 05-11949 REV. 00		
18	4/27/85	JM	BCS	DJM	INCORP. DCR 05-009 DCM 00 & 01		
17	12/06/82	JM	BCS	RCP	INCORP. DCR 97-38 DCM 00 & 01		
16	11/22/82	BCS	MPW	RCP	PARTIAL INCORP. DCR 97-38 DCM 00		
15	3-24-80	DWS	BCS	JMS	INCORP. DCR 980039 DCM 00, 20 & 63		
14	2/22/80	BCS	DWS	MPW	PARTIAL INCORP. DCR 980039 DCM 63		
13	2/11/80	DWS	BCS	MPW	PARTIAL INCORP. DCR 980039		
12	1/5/79	BCS	MPW	RPM	INCORP. MM00 96-633 CA-0		
11	9/01/78	BCS	DWS	GG	INCORP. MM00 96-623 DCM 00		
10	6/30/77	MPW	DWS	RCP	INCORP. MM00 97-568 DCM 00		
9	6/12/75	BCL	DWS	DJM	INCORP. MM00 94-570 CA-0		
8	10/2/72	MRB	BCL	SAW	INCORP. DCR 09-14 CA-0		
7	4/2/72	MRB	BCL	JEV	INCORP. MM00 91-515 CA02		
6	8/31/91	GPM	JM	MAC	INCORP. DCR 89-80 CA07		
5	2/8/91	MRB	JM	DJM	INCORP. ECA 05/22/93C		
4	9/29/89	MRB	APL	JWS	INCORP. DCR 88-789 CA21		
3	4/5/89	GPM	PAL	MAC	DELETED INSTR. TAG NO PER SIS		
2	2/24/87	JDM	PAL	MAC	INCORPORATED DCR 89-7		
1	6/26/86	BCL	DNK	RRC	ADDED INSTRUMENTATION & NOTE 9, CORRECTED LINE TO INSTR. 5351, RELOCATED 3/4" PLUG PER PROTECTION ISO.		
0	3/4/86	DWS	WES	WFO	ADDED P&ID LEGEND NOTE, UPDATED REF DWD REV'S, INCORP. ECA 98/10373A, ADDED CONTINUATION DWG. COORDINATES INCORP. DCR 528, DELETED NOTE 5		
REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DATE	DESCRIPTION

**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



- 1.) WORK THIS DRAWING WITH DRAWINGS B20308 & 129004 THRU B20309.
- 2.) ALL HVAC, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA,  
UNLESS NOTED OTHERWISE.
- 3.) SYMBOL LEGEND

XXX CFM    NORMAL AIR FLOW

[XXX CFM] EMERGENCY AIR FLOW

~~1111~~ ☐ PARALLEL MULTIBLADE DAMPER  
W/LIMIT SWITCH


~~AA~~ ☐ OPPOSED MULTIBLADE DAMPER  
W/LIMIT SWITCH

 BACKDRAFT DAMPER

X/D	DAMPER	F-FIRE
		B-BALANCING

 **FIXED LOUVER**

COOLING COIL.

 FILTER F-ROUGHING, PRE-FILTER  
A-HEPA  
C-CHARCOAL

 **E**  
ELECTRIC HEATING COIL

(X)  HEATING COIL W-WATER S-STEAM

(X)  
**UH** UNIT HEATER W-WATER  
S-STEAM  
E-ELECTRIC  
(Y)

**HU** HUMIDIFIER W-WATER

DUCTED SUPPLY  
DUCTED RETURN  
NON-DUCTED SUPPLY OR RETURN

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

4	1/6/99	BCS	—	<u>DUS</u>	<u>JPS</u>	<u>WML</u>	INCORP. M400 96-641 DCN-00
3	6/12/98	BCL	—	DWS	MPW	DJM	INCORP. M400 94-579 CA-2
2	2-5-90	HBL	LFC	APL	WCL	IV	INCORP. DCR 86-572A02, ADDED LEGEND NOTE
1	2-24-87	WDS	DWS	PAW	BCL	HC	REVISED REF DWG REVISIONS INCORP. DCN 526
0	3-4-86	DWS	DJWS	WES	JKW	WFS	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CRWN	CHKD	CD	SEF	DESCRIPTION

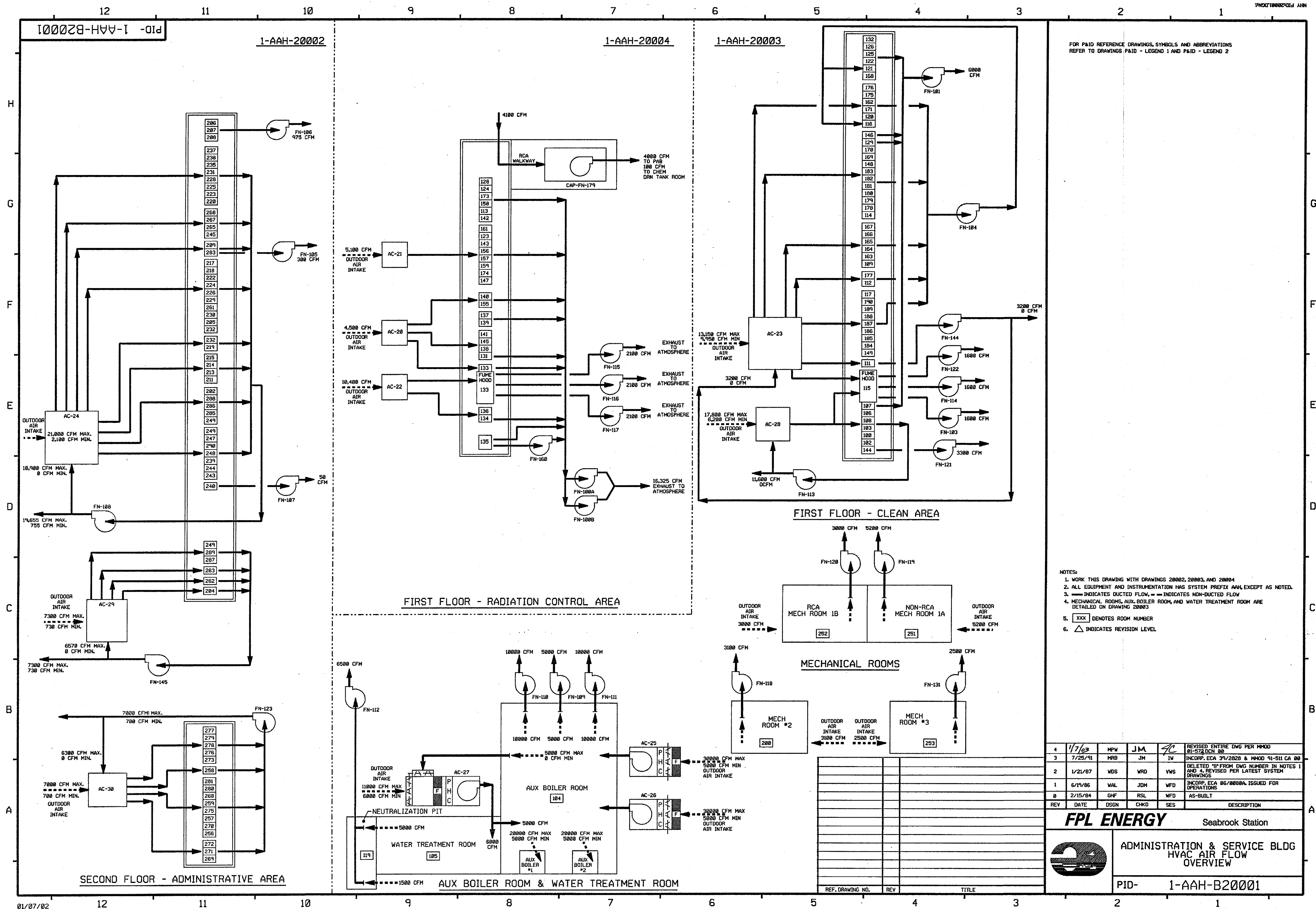
**North Atlantic** Energy Service Corporation

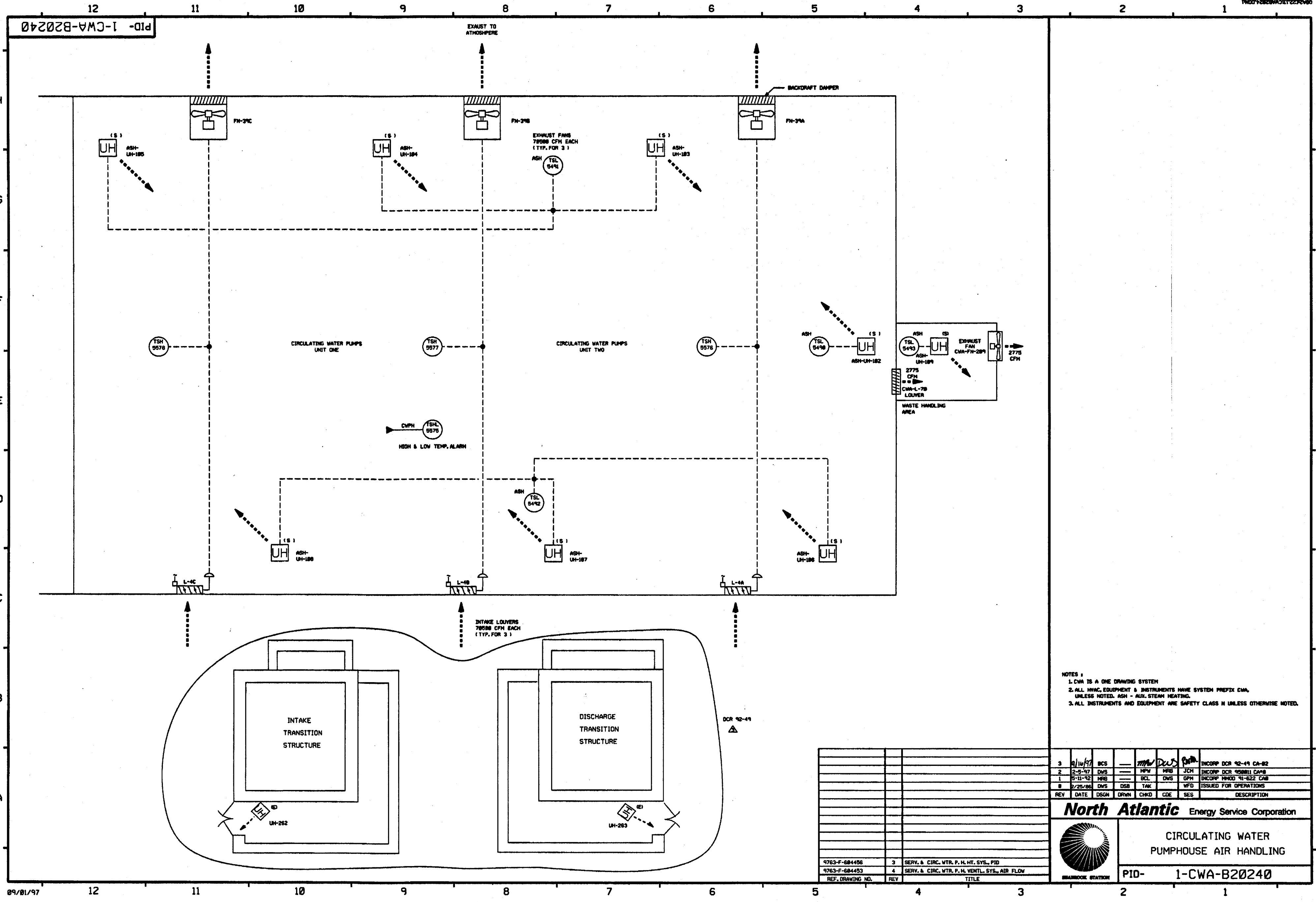


CONTROL BUILDING AIR HANDLING  
EMERGENCY SWITCHGEAR AREA  
DETAIL

PID- 1-CBA-B20302

9733-F-604095	13	CBA EMERG. SWGR. & BATT. ROOMS PLAN
9763-F-604091	12	CONTROL BLDG. VENT. SYS. AIR FLOW DIA
REF. DRAWING NO.	REV	TITLE







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


3	9/16/97	BCS	MPW	NRB	JCH	INCORP DCR 92-49 CA-82
2	2-5-97	DWS	MPW	NRB	JCH	INCORP DCR 92-49 CA-82
1	5-11-92	NRB	BCL	DWS	GPH	INCORP WROD 91-622 CAB
0	2/25/96	DWS	DSB	TAK	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES
DESCRIPTION						
North Atlantic Energy Service Corporation						
CIRCULATING WATER PUMPHOUSE AIR HANDLING						
PID- 1-CWA-B20240						

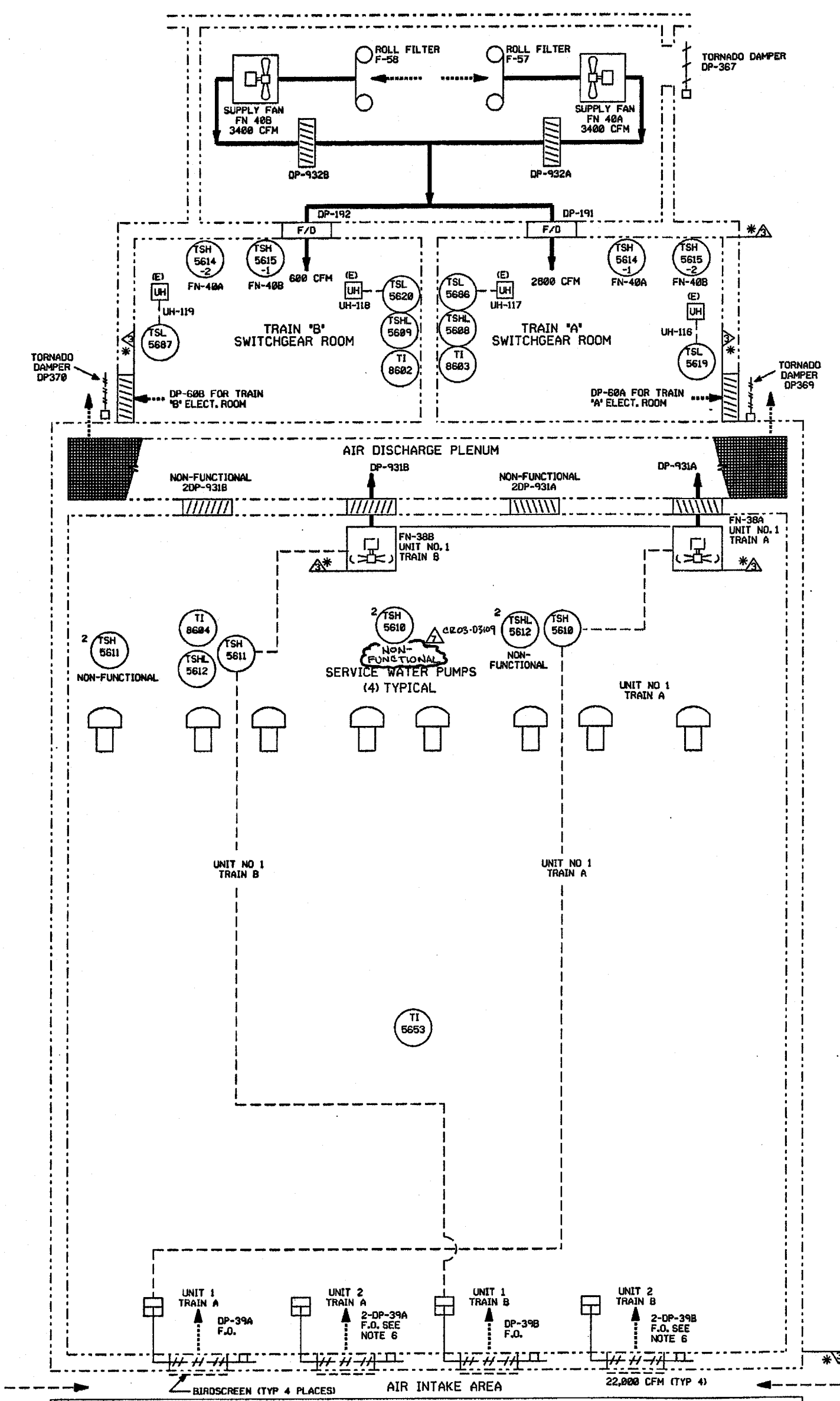


NOTES:

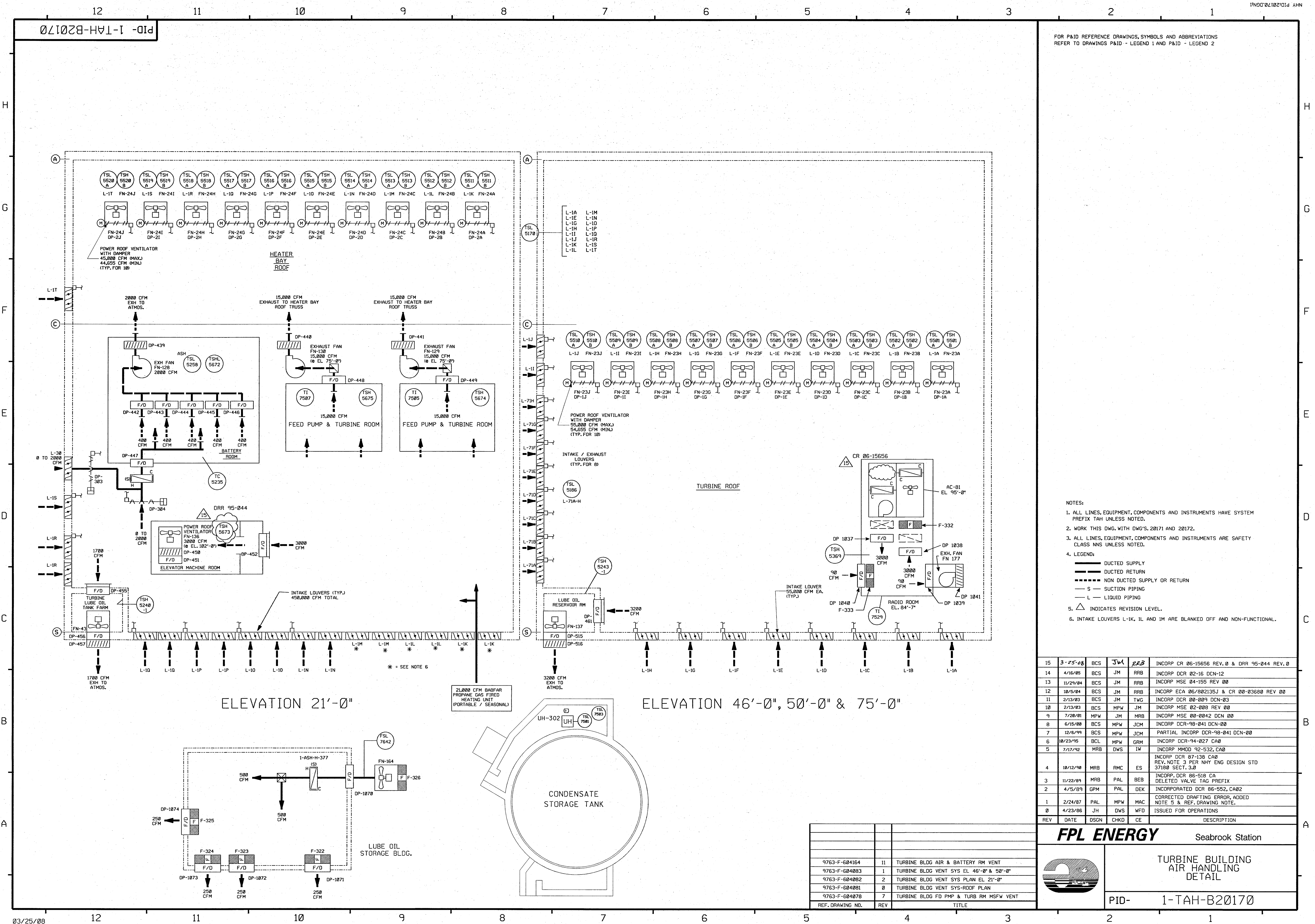
1. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX SVA UNLESS OTHERWISE NOTED.
2. THE SVA SYSTEM IS A ONE (1) DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
3.  ALL DUCTWORK, UNLESS NOTED.
4. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NMS UNLESS OTHERWISE NOTED.
5.  INDICATES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

7	5/19/83	JM	BCL	MPW	VMS	INCORP. CDR 93-03199 REV. 00 RE-INCORP. CDR 93-041 CA 01 & REVISED DAMPER ID'S
6	6/14/79	BCL	MPW	VMS	INCORP. MH00 94-578 CA 01	
5	12/9/94	BCL	MPW	VMS	INCORP. MH00 94-580 CA 01	
4	3/31/93	MRB	BCL	JCH	INCORP. MH00 92-553 CA 01	
3	9/24/78	MRB	JM	BCL	INCORP. MH00 98-516 CA 01 REVISED NOTE 4 PER ENGINEERING DESIGN STANDARD 37188 SECT. 3.8 ADDED LEGEND NOTE	
2	8/2/58	MPW	PAL	MAC	REVERSED TI NO'S PER M-506944 REV 4 & INCORP. ECA 99/101812A	
1	2/24/87	WDS	PAL	MAC	INCORP. ECR 826, ADDED TI-5683 PER M-506844	
0	4-24-86	JS	JKM	WFD	ISSUED FOR OPERATIONS	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION	

<b>FPL ENERGY</b>		Seabrook Station
	AIR HANDLING SYSTEM FOR SERVICE WATER PUMPHOUSE AND SERVICE WATER COOLING TOWER	
	PID-	1-SWA-B20372



9763-F-684139	13	COOLING TOWER VENTILATION & DRAINAGE
9763-F-684153	5	SERV & CIRC. WATER PUMPHOUSE HVAC DIAG.
SEE DRAWING NO	REV	TITI F.

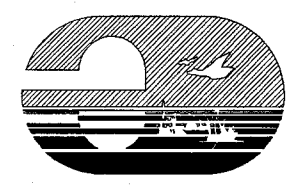


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- 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	BEB	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

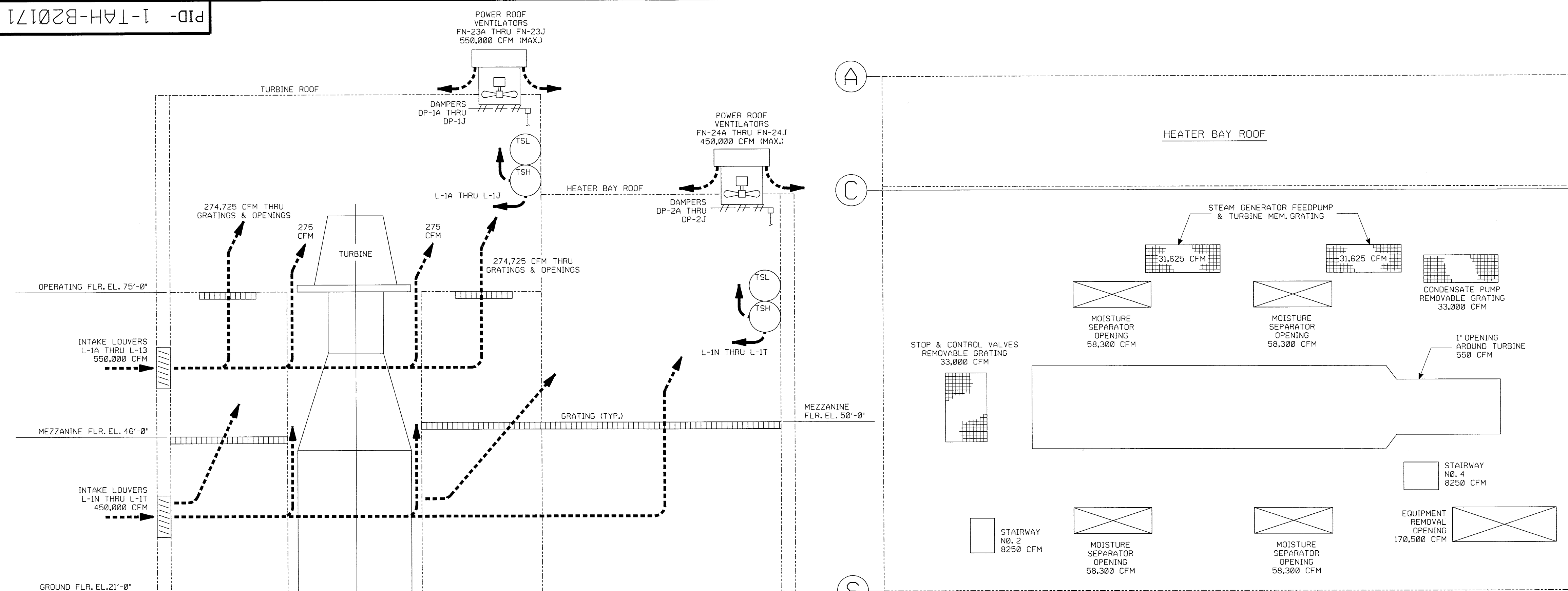
TURBINE BUILDING  
AIR HANDLING  
DETAIL

PID-1-TAH-B20170

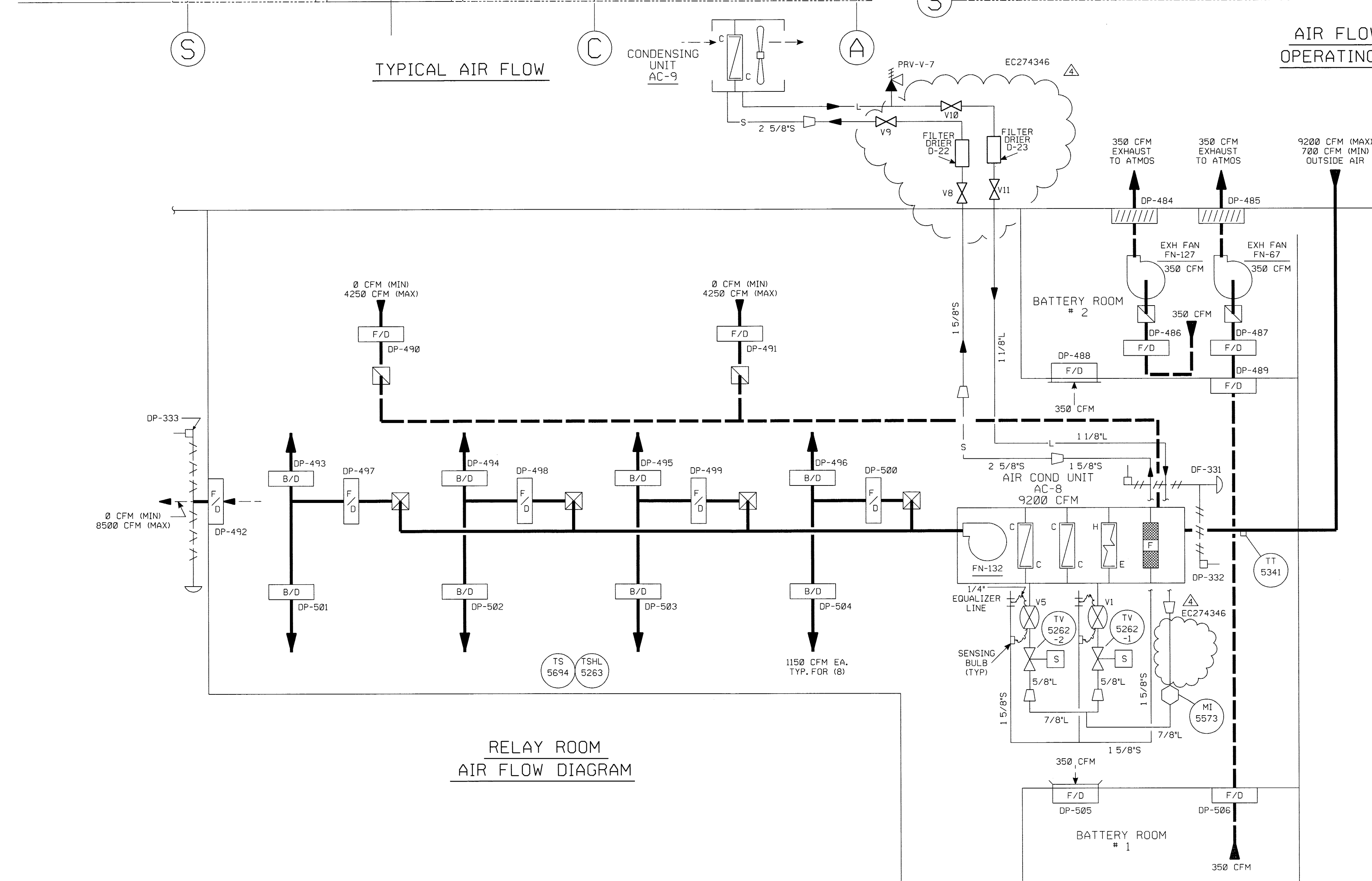
REF. DRAWING NO.	REV	TITLE
9763-F-604164	11	TURBINE BLDG AIR & BATTERY RM VENT
9763-F-604083	1	TURBINE BLDG VENT SYS EL 46'-0" & 50'-0"
9763-F-604082	2	TURBINE BLDG VENT SYS PLAN EL 21'-0"
9763-F-604081	0	TURBINE BLDG VENT SYS-ROOF PLAN
9763-F-604078	7	TURBINE BLDG FD PMP & TURB RM MSFW VENT

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.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
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 ADDED P&ID LEGEND NOTE ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
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

**Nextera Energy**  
SEABROOK

**TURBINE BUILDING  
AIR HANDLING  
DETAIL**

PID- 1-TAH-B20171

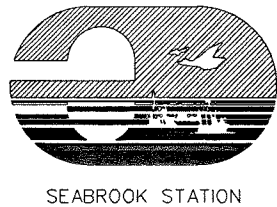


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- 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.
  7. FLOWS INCREASE OR DECREASE WITHIN THE LIMITS NOTED IN PROPORTION TO  
THE AMOUNT OF OUTSIDE AIR PROVIDED  
THROUGH MODULATING DAMPER 1-TAH-DP-337.
  8. 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	3/24/12	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

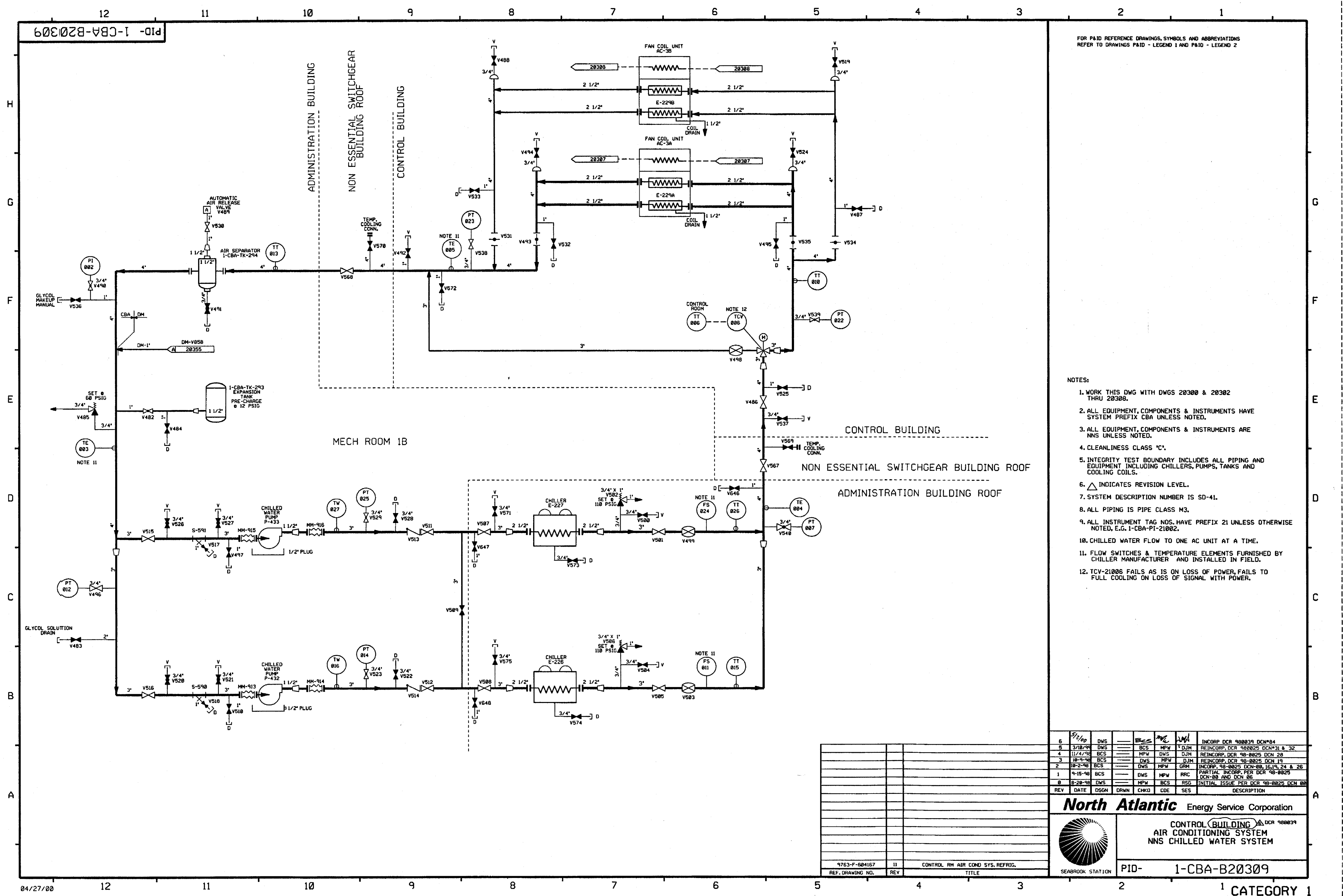


TURBINE BUILDING  
AIR HANDLING  
DETAIL

PID-1-TAH-B20172

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



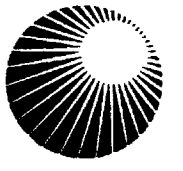


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- 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-P1-21002.
  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	5/3/00	DWS	BCS	MPW	DJM	INCCORP DCR 980039 DCN#24
5	3/10/98	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

 CONTROL BUILDING AIR CONDITIONING SYSTEM NNS CHILLED WATER SYSTEM

9763-F-504167

II

CONTROL RM AIR COND SYS, REFRIG.

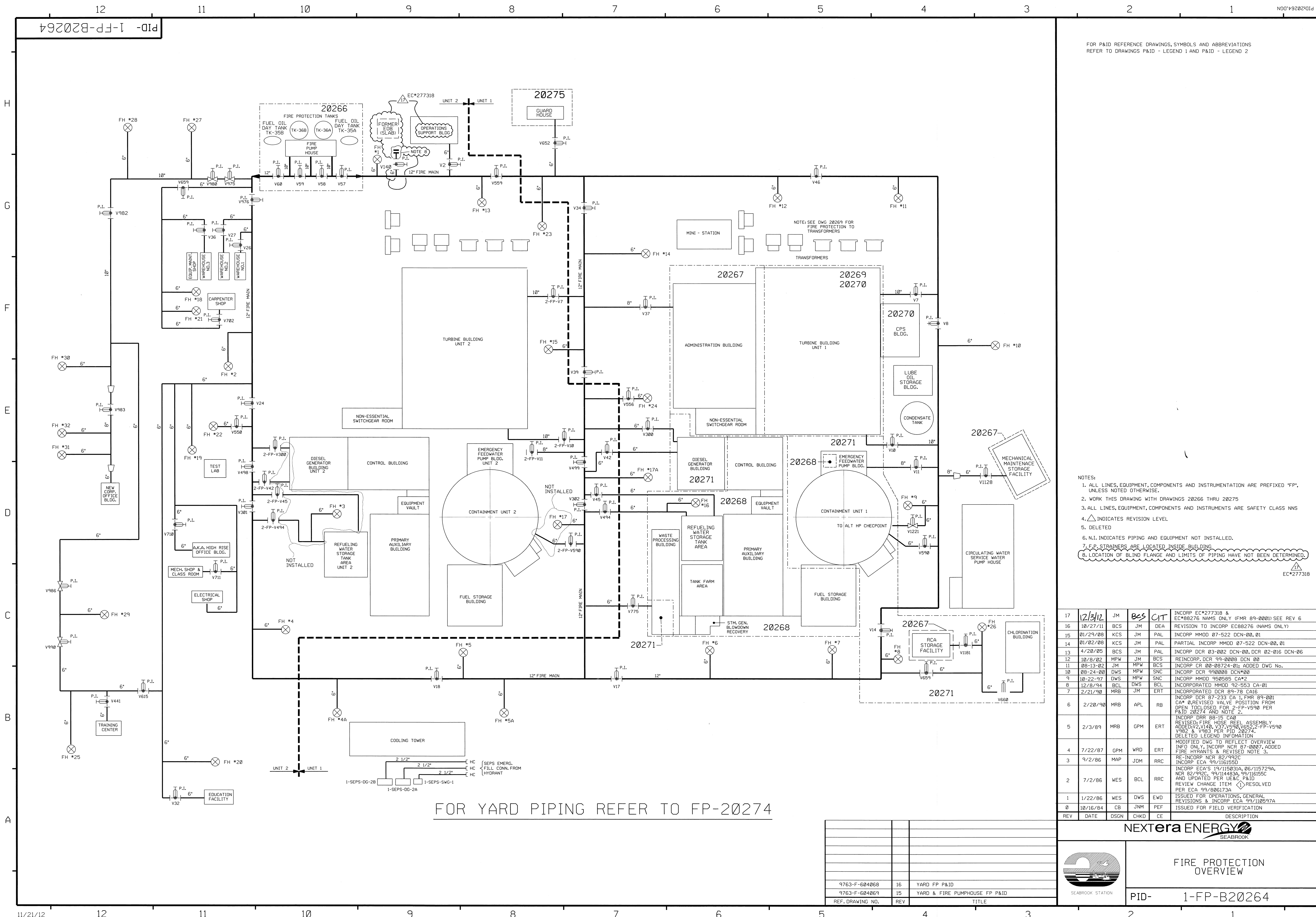
REF. DRAWING NO.

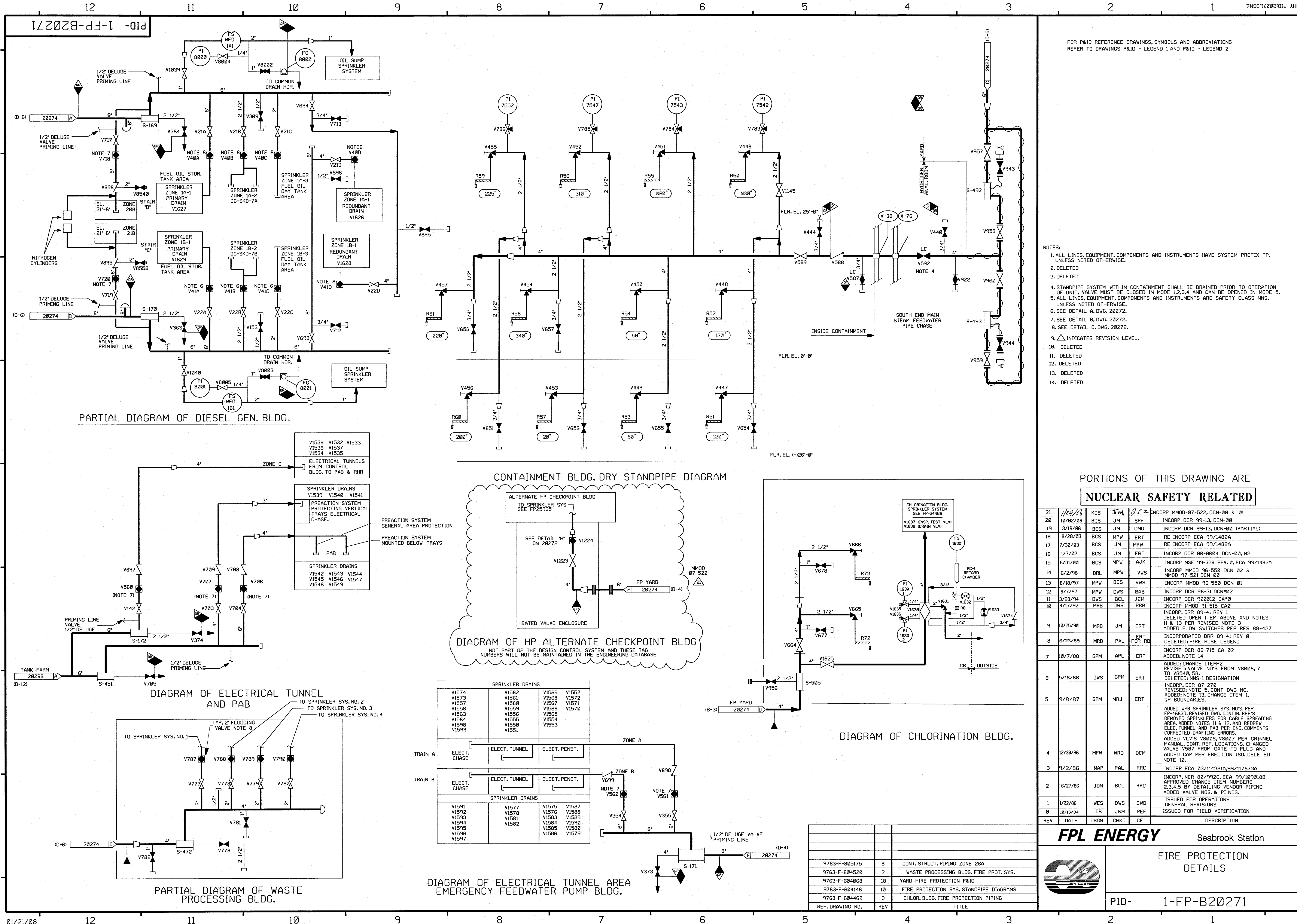
REV

TITLE

SEABROOK STATION

PID- 1-CBA-B20309





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

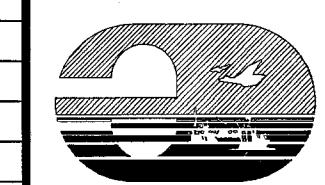
- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX FP, UNLESS NOTED OTHERWISE.
  2. DELETED
  3. DELETED
  4. STANDPIPE SYSTEM WITHIN CONTAINMENT SHALL BE DRAINED PRIOR TO OPERATION OF UNIT. VALVE MUST BE CLOSED IN MODE 1,2,3,4 AND CAN BE OPENED IN MODE 5.
  5. ALL LINES,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

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

21	1/6/03	KCS	JM	SPF	INCORP MMOD-07-522, DCN-00 & 01
20	10/02/06	BCS	JM	DMG	INCORP DCR 99-13, DCN-00
19	3/16/06	BCS	JM	DMG	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	1/7/02	BCS	JM	ERT	INCORP DCR 00-0004, DCN-00, 02
15	8/31/00	BCS	MPW	AJK	INCORP MSE 99-328 REV. 0, ECA 99/1482A
14	6/2/98	DRL	MPW	VWS	INCORP MMOD 96-558 DCN 02 & MMOD 97-521 DCN 00
13	8/18/97	MPW	BCS	VWS	INCORP MMOD 96-558 DCN 01
12	6/7/97	MPW	DWS	BAB	INCORP DCR 96-31 DCN-02
11	3/28/94	DWS	BCL	JCM	INCORP DCR 920012 CA-0
10	4/17/92	MRB	DWS	RRB	INCORP MMOD 91-515 CA-0
9	10/25/90	MRB	JM	ERT	INCORP DCR 89-41 REV 1 DELETED OPEN ITEM ABOVE AND NOTES 11 & 13 PER REVISED NOTE 3
8	6/23/89	MRB	PAL	FOR RE	INCORPORATED DCR 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 NOS FROM V8006, 7 TO V8540, 50. DELETED NNS-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, OR BOUNDARIES.
4	12/30/86	MPW	WRD	DCM	ADDED WPB SPRINKLER SYS. NOS. PER FP-46830, REVISED DWG. CONT. REF'S REMOVED SPRINKLERS FOR CABLE SPREADING AREA ADDED NOTES 11 & 12, AND REDREW ELEC. TUNNEL AND PAB PER ENG. COMMENTS CORRECTED DRAFTING ERRORS.
3	9/2/86	MAP	PAL	RRR	ADDED VLV'S V8006, V8007 PER GRINNELL MANUAL, CONT. REF. LOCATIONS, CHANGED VALVE V807 FROM GATE TO PLUG AND ADDED CAP PER ERECTION ISO. DELETED NOTE 10.
2	8/27/86	JDM	BCL	RRR	INCORP. NCR 82/992C, ECA 99/1800188 APPROVED CHANGE ITEM NUMBERS 2,3,4,5 BY DETAILING VENDOR PIPING ADDED VALVE NOS. & PT NOS.
1	1/22/86	WES	DWS	EDW	ISSUED FOR OPERATIONS GENERAL REVISIONS
0	10/16/84	CB	JNM	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

Seabrook Station



FIRE PROTECTION  
DETAILS

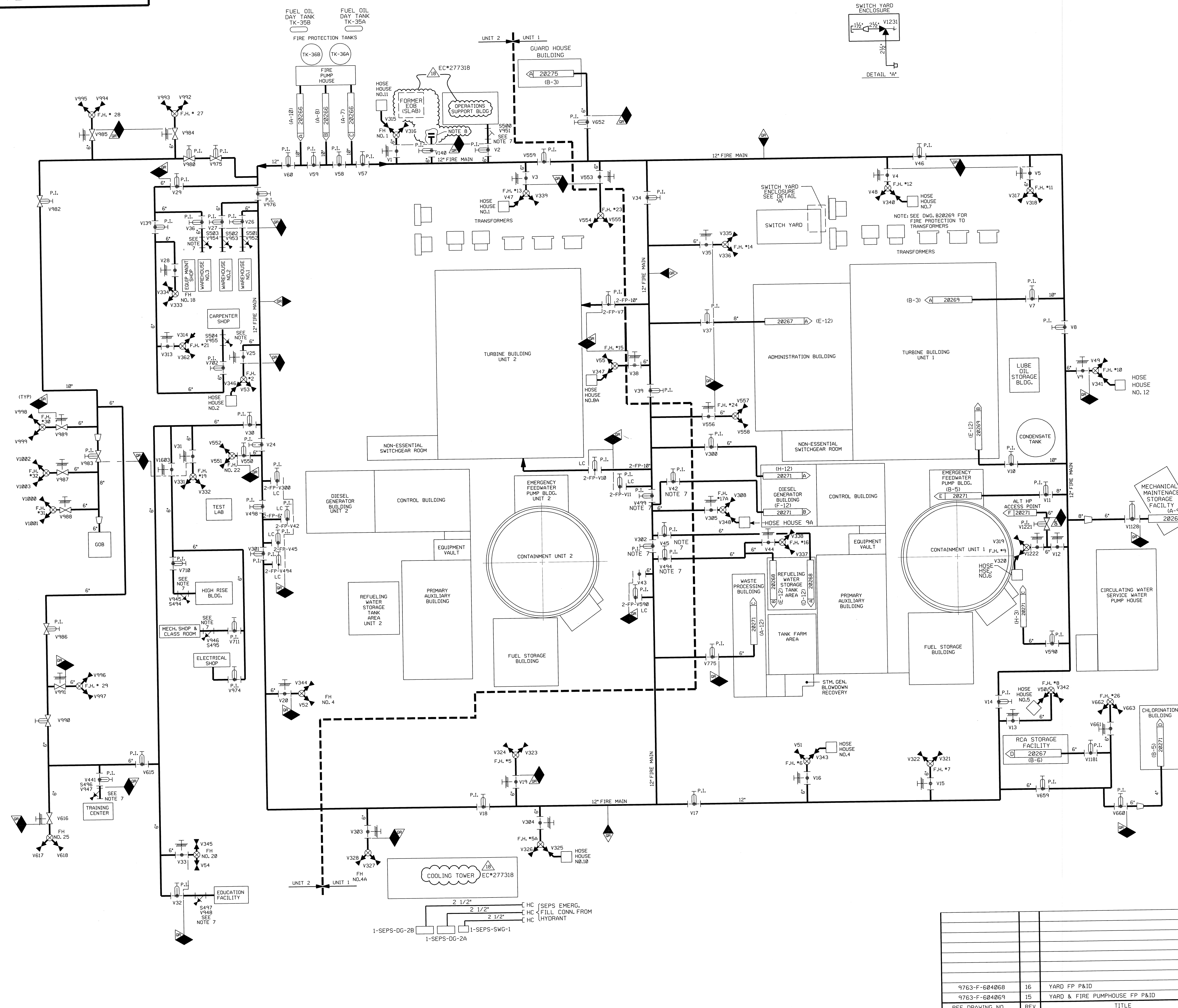
PID- 1-FP-B20271

REF. DRAWING NO.	REV	TITLE
9763-F-805175	8	CONT. STRUCT. PIPING ZONE 26A
9763-F-604520	2	WASTE PROCESSING BLDG. FIRE PROT. SYS.
9763-F-604068	18	YARD FIRE PROTECTION P&ID
9763-F-604146	10	FIRE PROTECTION SYS. STANDPIPE DIAGRAMS
9763-F-604462	3	CHLOR. BLDG. FIRE PROTECTION PIPING



PID-1-FP-B20274

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

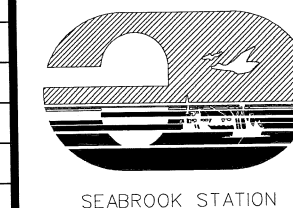


- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED "FP", UNLESS NOTED OTHERWISE.
  2. WORK THIS DRAWING WITH DRAWINGS 20264, 20266 THRU 20275.
  3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS
  4.  $\Delta$  INDICATES REVISION LEVEL
  5. N.I. INDICATES 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	INCCORP EC*277318 & EC*988276 NAMS ONLY (FMR 89-0001) SEE REV 3
17	10/27/11	BCS	JM	DEA	REVISION TO INCCORP EC88276 (NAMS ONLY)
16	9/14/09	BCS	JM	RTS	INCCORP EC 12734
15	01/29/08	KCS	JM	PAL	INCCORP MM00 07-522 DCN 00, 01
14	01/02/08	KCS	JM	PAL	PARTIAL INCCORP MM00 07-522 DCN 00, 01
13	9/22/05	BCS	JM	RRB	INCCORP DCR 03-002 DCN-00
12	5/8/02	MPW	JM	RRB	INCCORP MSE 02-074 REV.00
11	6/22/00	DWS	MPW	JNE	INCCORP DCR 99-008 DCN*00 & 05
10	6/2/98	DRL	BCS	VWS	INCCORP MM00 97-521 DCN 00
9	10/22/97	DWS	MPW	SNC	INCCORP MM00 950585 CA* 02
8	3/4/94	MRB	BCL	GRM	INCCORP MM00 92-553 CA01
7	3/31/93	MRB	BCL	JCM	INCCORP MM00 92-553 CA00
6	4/21/92	MRB	BCL	JEV	INCCORP MM00 91-515 CA0,01
5	12/21/90	MRB	RMC	ERT	INCCORP DCR 89-78 CA 16
4	9/24/90	MRB	JM	BCL	INCCORP MM00 90-516 CA 0
3	2/20/90	MRB	APL	RB	INCCORP DCR 87-233 CA 1 & MM00 89-545 INCCORP 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	INCCORPORATED 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	INCCORP 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

NEXTERA ENERGY



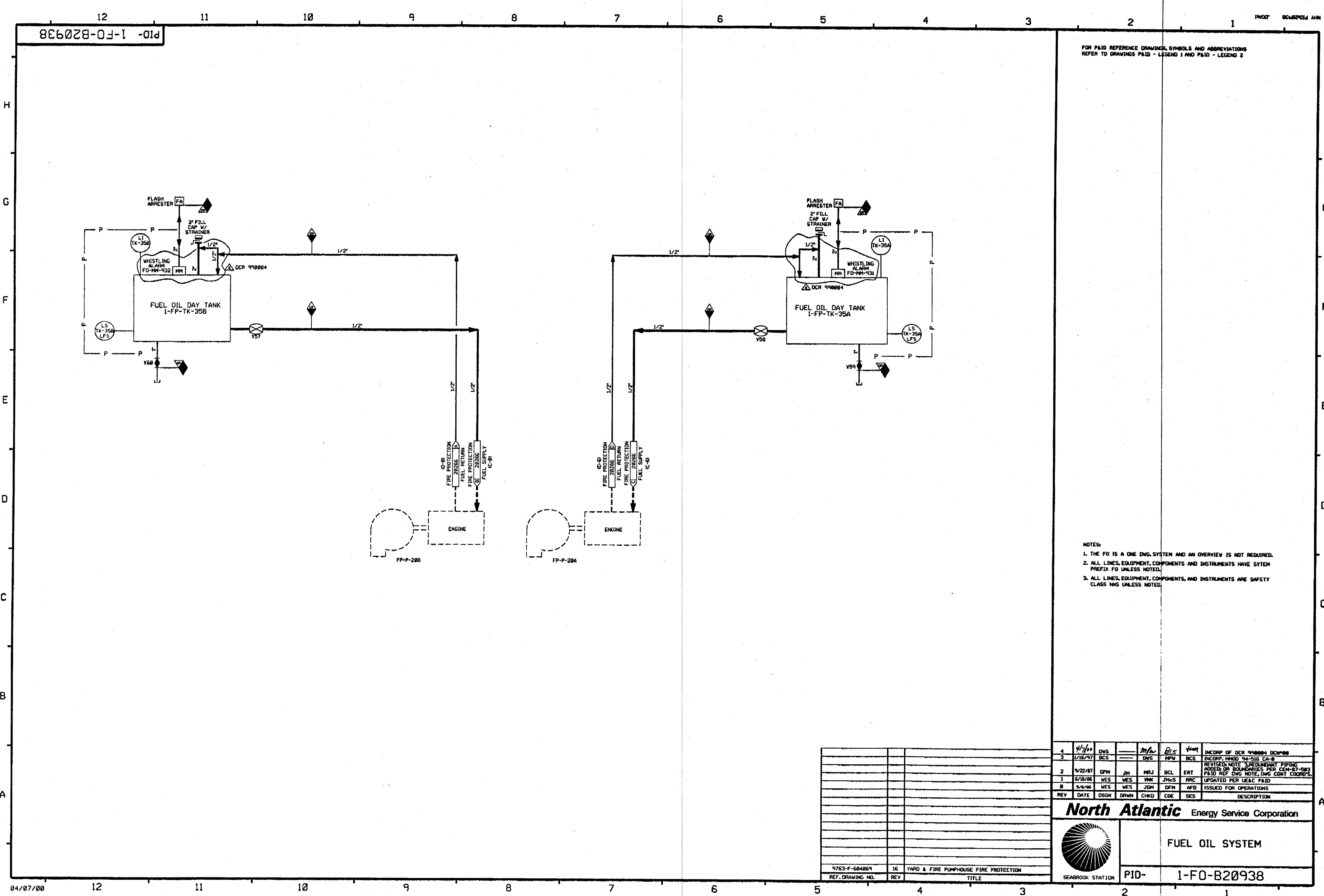
FIRE PROTECTION  
YARD PIPING

PID- 1-FP-B20274

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



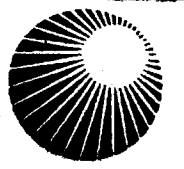




FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- 1. 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.

4	4/7/00	DWS		M/W	R/S	Yoon	INCRP OF DER 990004 DCM#00
3	1/16/97	BCS		DWS	MPM	BCS	INCRP, MMD 54-516 CA-8
2	9/22/87	GPM	JM	MRJ	BCL	ERT	REVISED NOTE 3 REDUNDANT PIPING
1	6/18/86	WES	WES	WVK	JMC	RRC	ADDITIONAL BOUNDARIES PER C&P-87-503
0	3/6/86	WES	JDM	DFM	AFD		P&ID REF DNG NOTE, DNG CONT. COORDS.
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
9763-F-6B4069	16	YARD & FIRE PUMPHOUSE FIRE PROTECTION					
REF. DRAWING NO.	REV	TITLE					

4	4/7/00	DWS		M/W	R/S	Yoon	INCRP OF DER 990004 DCM#00
3	1/16/97	BCS		DWS	MPM	BCS	INCRP, MMD 54-516 CA-8
2	9/22/87	GPM	JM	MRJ	BCL	ERT	REVISED NOTE 3 REDUNDANT PIPING
1	6/18/86	WES	WES	WVK	JMC	RRC	ADDITIONAL BOUNDARIES PER C&P-87-503
0	3/6/86	WES	JDM	DFM	AFD		P&ID REF DNG NOTE, DNG CONT. COORDS.
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
<b>North Atlantic</b> Energy Service Corporation							
 SEABROOK STATION							
FUEL OIL SYSTEM							
PID- 1-F0-B20938							

PID-1-PP-B20269

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, 20267, 20268, 20270, 20271, THRU 20274.
  3. DELETED
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
  5. SEE DETAILS ON PID FP-20272.
  6.  $\Delta$  INDICATES REVISION LEVEL.
  7. DELETED
  8. DELETED
  9.  $\diamond$  INDICATES DWG. CHANGE ITEM NUMBER.
  10. VENT, DRAIN & INSTRUMENT TAPS OR BOUNDARY ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE.
  11. SEE DETAIL "B" ON DWG 20272.

15	3/16/06	BCS	JM	DH	INCORP. DCR 99-13 DCM-00
14	9/29/05	BCS	JM	RRB	INCORP. CR 05-09878 REV. 8
13	12/28/04	BCS	JM	RRB	INCORPORATED MMD 04-520 DCM-00
12	10/31/02	BCS	MPW	MKC	INCORPORATED DCR 00-014 DCM-00
11	5/24/02	MPW	BCS	DJM	INCORPORATED DCR 97-012 DCM 27
10	8/27/99	MPW	BCS	RWS	ADDED LINE SIZE PER FP 61632, REVISED NOTE 5 FOR GENERAL REFERENCE.
9	12/16/94	BCL	MPW	RSC	INCORPORATED MMD 94-548 CA#
8	3/24/94	MRB	BCL	WFZ	INCORPORATED MMD 92-553 CA#01 & DCR 930016 CA#0
7	3/31/93	MRB	BCL	JCM	INCORPORATED MMD 92-553 CA#
6	4/28/92	MRB	DWS	RRB	INCORPORATED MMD 91-518 CA#
5	9/20/87	MPW	DWS	RRC	INCORPORATED DCR 87-157
4	8/19/87	GPM	MPW	EAT	REVISED NOTE 4, REINCORPORATED ECA 74/113324E, ADDED OR BOUNDARIES DET. 8, NOTES 9, 10, CHANGE ITEMS 1&2.
3	12/28/86	MPW	WRD	DCM	REVISED CONT. REFS., LUBE OIL STORAGE ROOM SPRINKLER HEADER LOCATION PER FIELD WALKDOWN, REVISED CHAIN OPERATOR SYMBOL PER P&ID LEGEND ADDED NOTE 8.
2	6/23/86	VES	VNK	RRC	ADDED REF. DWG. LOCATIONS, DELETED NOTE 7, ADDED N.C. TO V497, PLUGS VENT AND DRAIN PIPING, CAPS, PLUGGED CONNECTIONS AND REVISED TIE-IN LOC. AND VALVE NO. PER ERECTION ISO.
1	1/22/86	VES	DWS	END	ISSUED FOR OPERATIONS GENERAL REVISIONS.
0	10/16/84	CB	JNM	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

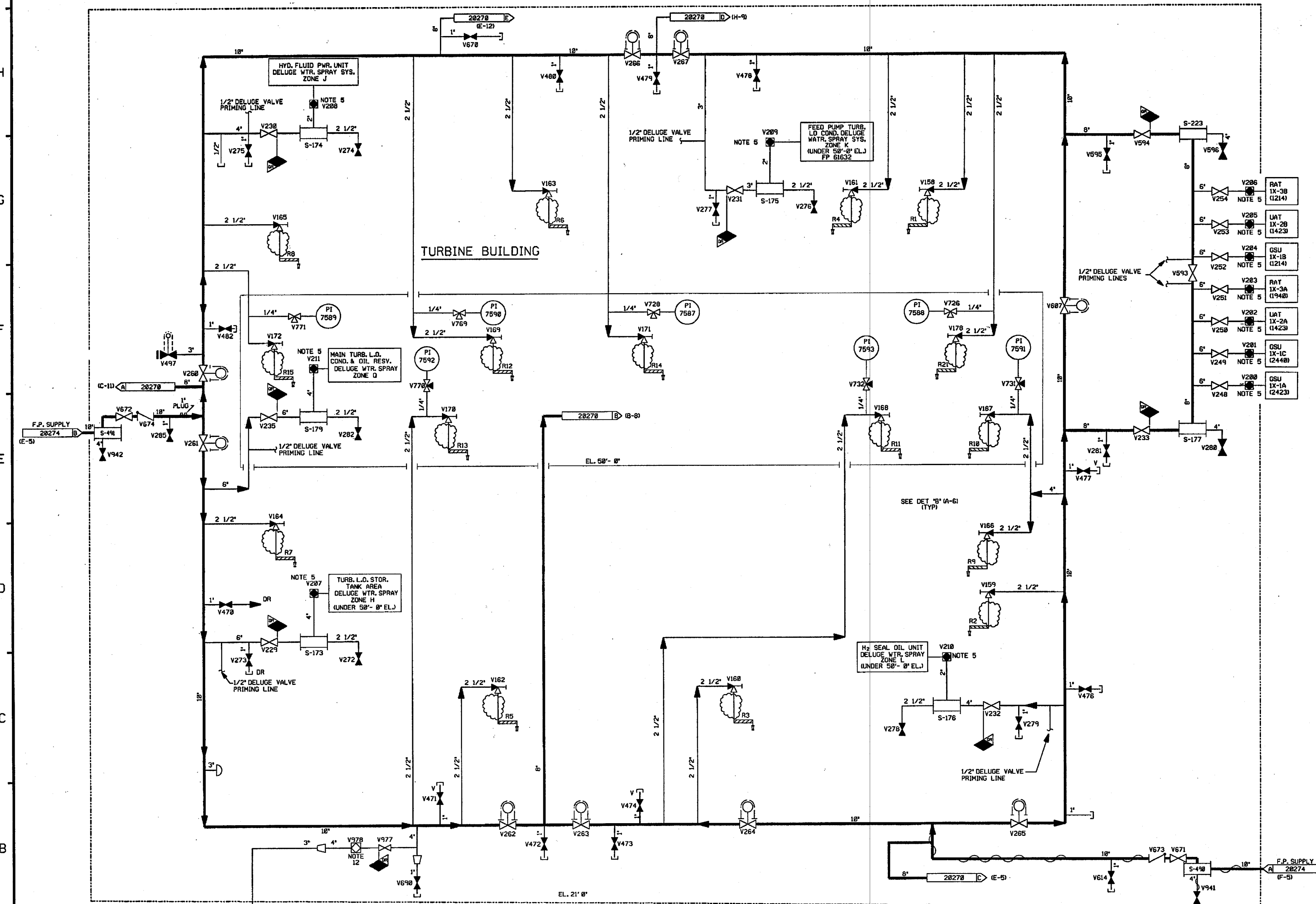
Seabrook Station



FIRE PROTECTION  
TURBINE BUILDING  
DETAIL  
SHEET 1 OF 2

PID-1-PP-B20269

9763-F-604078	10	TURBINE BLDG FIRE PROTECTION P&ID
REV. DRAWING NO.	REV	TITLE

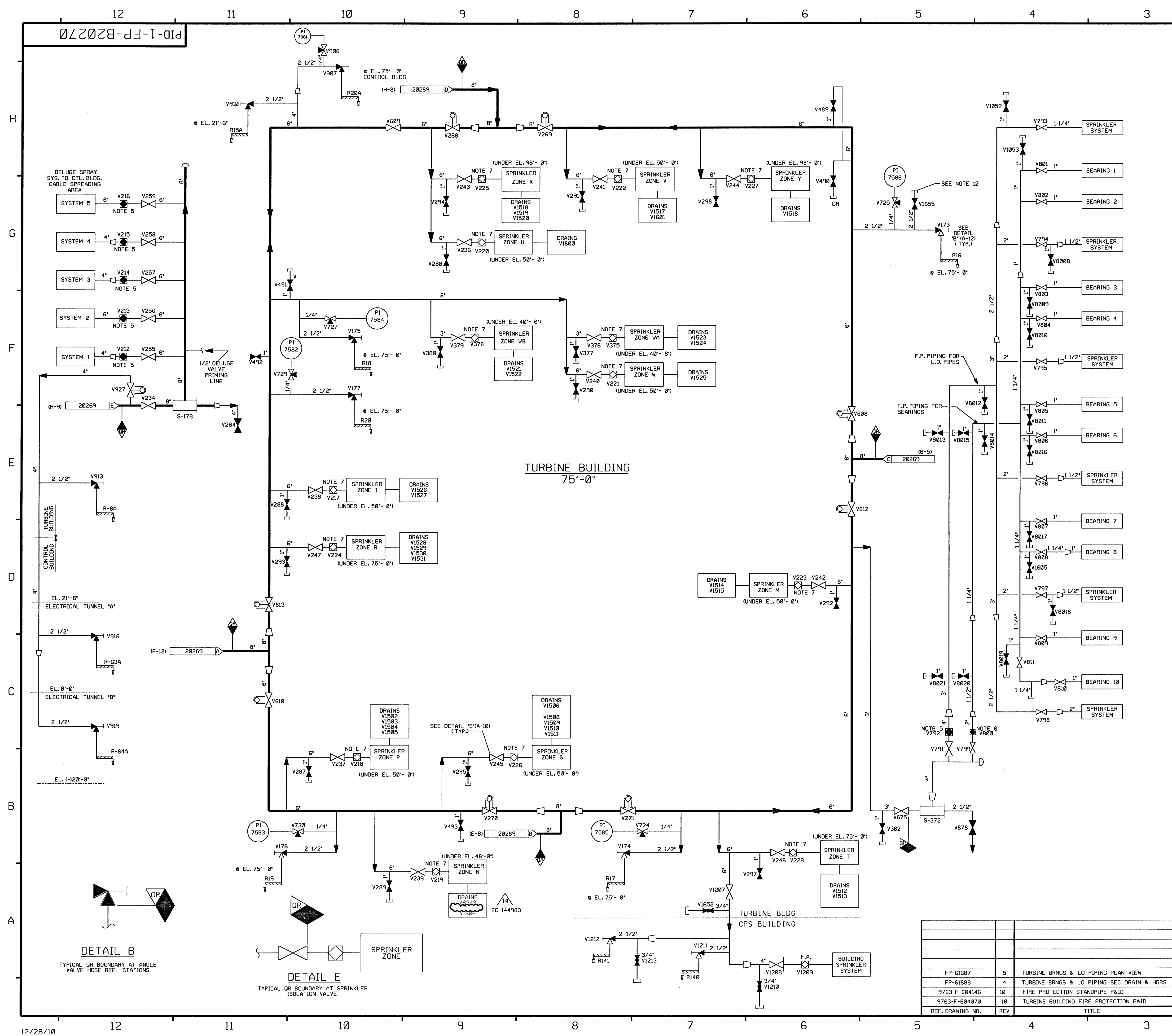


LUBE OIL  
STORAGE RM.  
SPRINKLER  
HEADER  
(REF. ECA  
74/113324E  
FOR INSPECTOR'S  
TEST VALVE  
FP-V-1656)

☁ = REVISED PER DCR 99-013  
(REF.  $\Delta$ )

DETAIL "B"  
TYPICAL OR BOUNDARY  
AND TEST BOUNDARY  
AT ANGLE VALVE HOSE  
REEL STATIONS






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

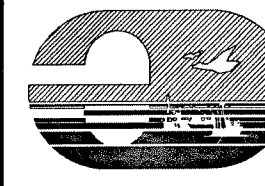
- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION ARE PREFIXED 'FP', UNLESS NOTED OTHERWISE.
  2. WORK THIS DRAWING WITH DRAWINGS 20264, 20265 THRU 20269, 20271 THRU 20274
  3. DELETED.
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
  5. SEE DETAIL 'A' DWG. 20272.
  6. SEE DETAIL 'C' DWG. 20272.
  7. SEE DETAIL 'D' DWG. 20272.
  8.  $\Delta$  INDICATES REVISION LEVEL.
  9. DELETED
  10.  $\diamond$  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 MMD 970618 DCN#00
6	4/20/92	MRB	DWS	JEV	INCORP MMD 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



**NEXTERA ENERGY**  
SEABROOK

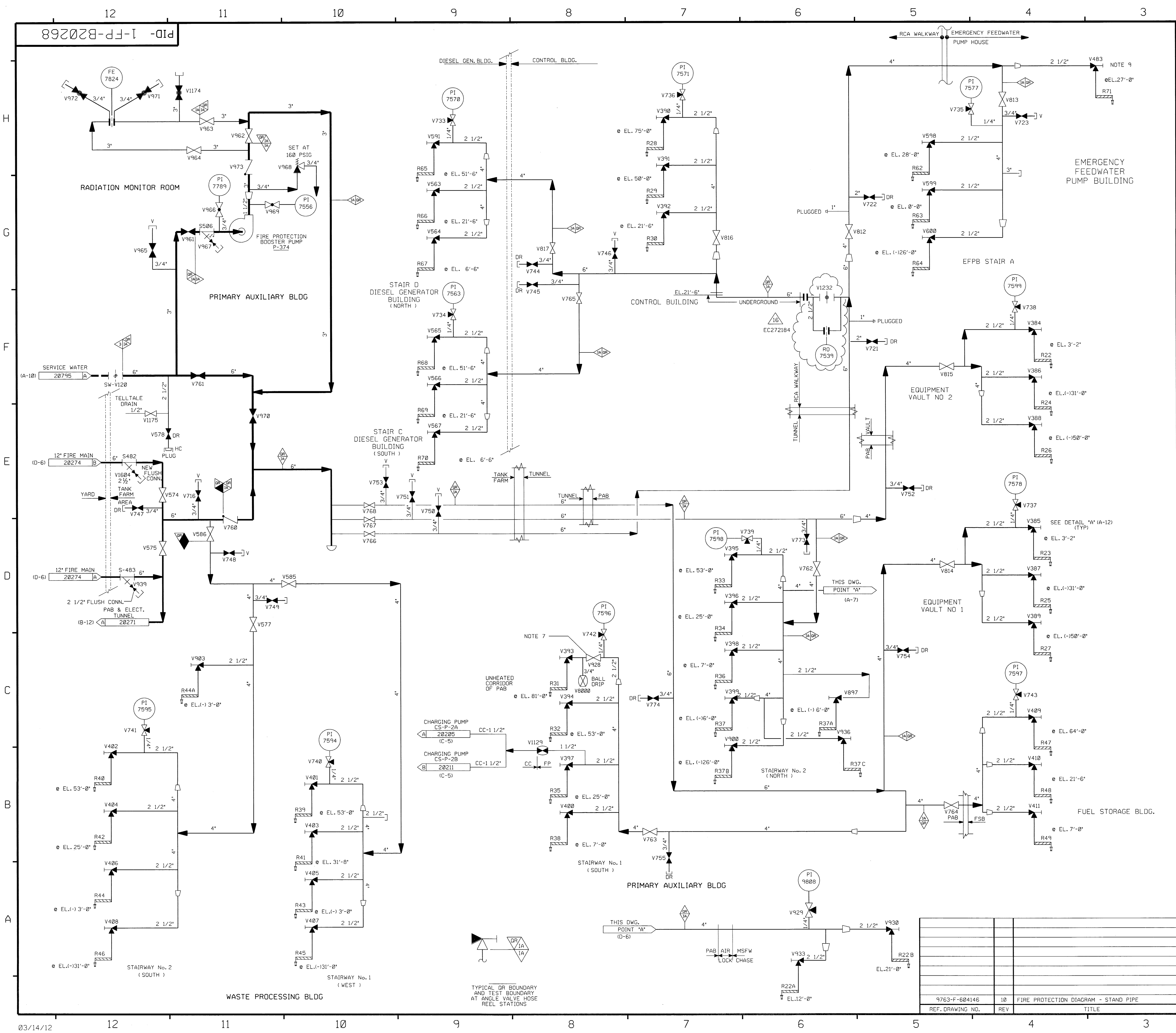
**FIRE PROTECTION**  
**TURBINE BUILDING**  
**DETAIL**  
**SHEET 2 OF 2**



SEABROOK STATION

**PID- 1-FP-B20270**

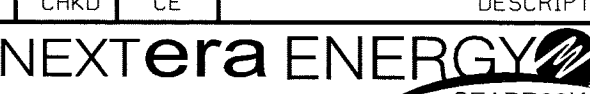


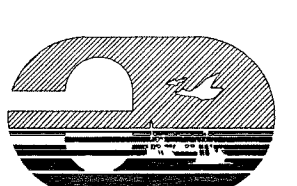


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

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

16	3/14/12	BCS	JM	FAB	INCORP EC272184
15	3/16/06	BCS	JM	DMQ	INCORP DCR 99-13 DCN-00
14	7/27/00	BCS	MPW	HWM	INCORP DCR 98-005 DCN-07
13	3/3/00	BCS	MPW	MKC	PARTIAL INCORP DCR 98-005 DCN-00, 04, 06
12	11/4/98	MPW	BCS	MAP	INCORP DCR 96-25 DCN 02
11	6/2/98	DRL	MPW	DWS	INCORP MMOD 96-550 DCN-02
10	5/27/97	MRB	DWS	RRB	INCORP DCR 96-25 DCN 0
9	3/11/94	MRB	BCL	DJM	INCORP MMOD 92-553 CA01
8	4/15/93	BCL	MRB	DRM	INCORP MMOD 92-576 CA0
7	4/28/92	MRB	DWS	RRB	INCORP MMOD 91-515 CA0
6	4/3/90	MRB	APL	PJT	INCORP DCR 90-32 REV 0 & MADE MINOR DRAFTING ENHANCEMENTS
5	1/25/89	GPM	MRB	ERT	INCORP DCR 88-004 CA01
4	8/28/87	GPM	MPW	EAT	DELETED: MITD REF. DWG REVISED: LINE CONT., NOTE 3, ROOM TITLE, VLV NO. & LABEL ADDED OR BOUNDARIES, DETAIL "A" NOTE 8, ROOM TITLES, CHANGE ITEMS 2 & 3, PUMP DATA, CONT. COORD.
3	12/30/86	MAP	WRD	DCM	ADDED NOTES 6 & 7, REVISED CONT. REFERENCES, ADDED BLDG. BOUNDARY, REVISED PIPING AND ADDED BUILDING BOUNDARY INFO PER UE&C P&ID AND PIPING ERECTION 150'S AND DRAWING LOCATION COORD. REVISED VALVE NO. V849 TO V848 WAS IN ERROR
2	9/2/86	DWS	BCL	RRC	APPROVED CHANGE ITEM NO.3,4,5 & 6 PER NEW UE & C REF. DWG REV. UPDATE REF. DWG REVISION REVISED DWG ACCORDINGLY INCORP. ECA 06/802872a
1	1/22/86	WES	DWS	EWD	ISSUED FOR OPERATIONS
0	10/16/84	CB	JNM	PEF	GENERAL REVISIONS AND INCORP. ECA 06/107489c, 19/17630 & 74/105803a
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

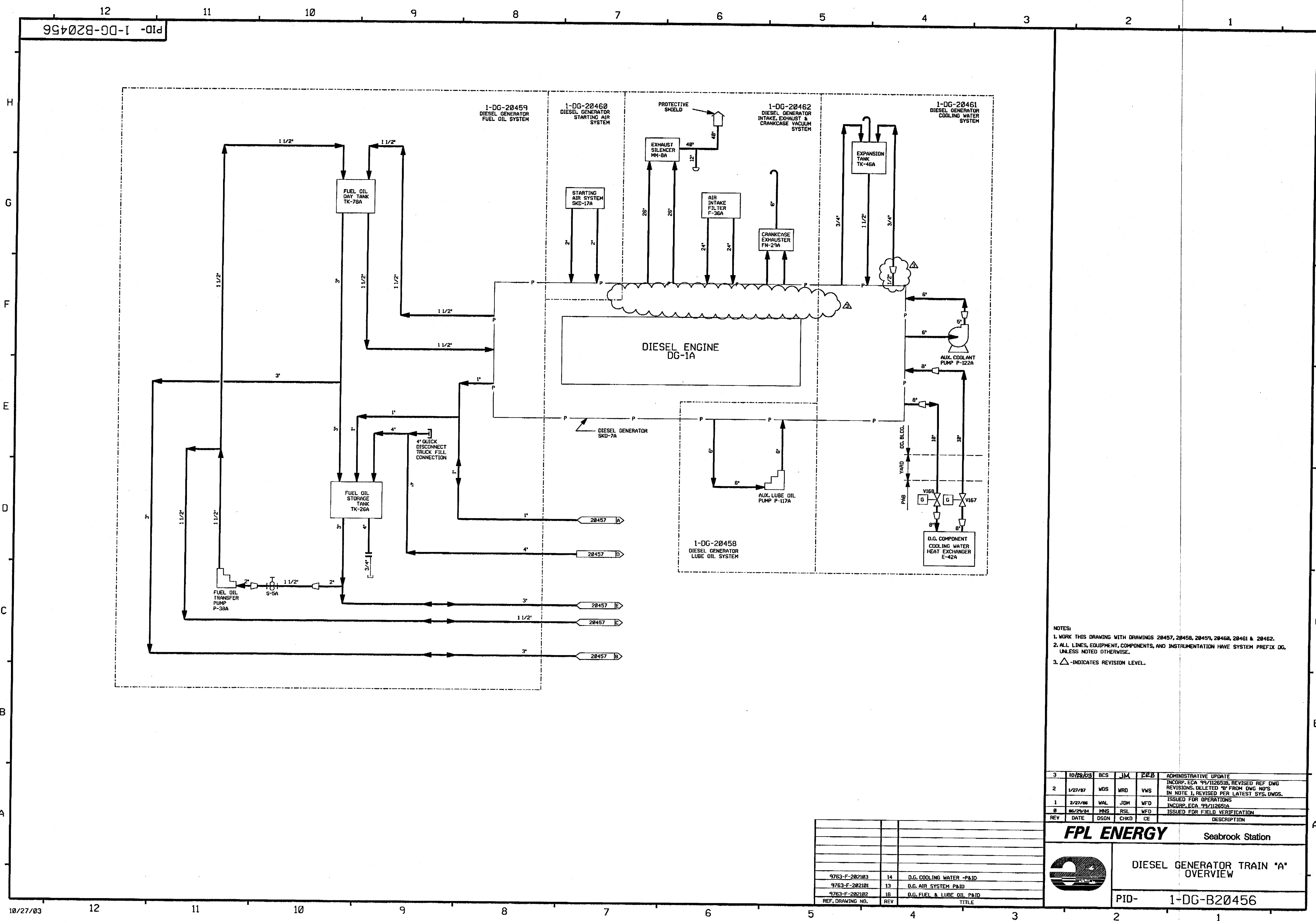
  
SEABROOK

  
SEABROOK STATION

FIRE PROTECTION  
STANDPIPE  
DETAIL

PID-1-FP-B20268

9763-F-604146	10	FIRE PROTECTION DIAGRAM - STAND PIPE
REF. DRAWING NO.	REV	TITLE



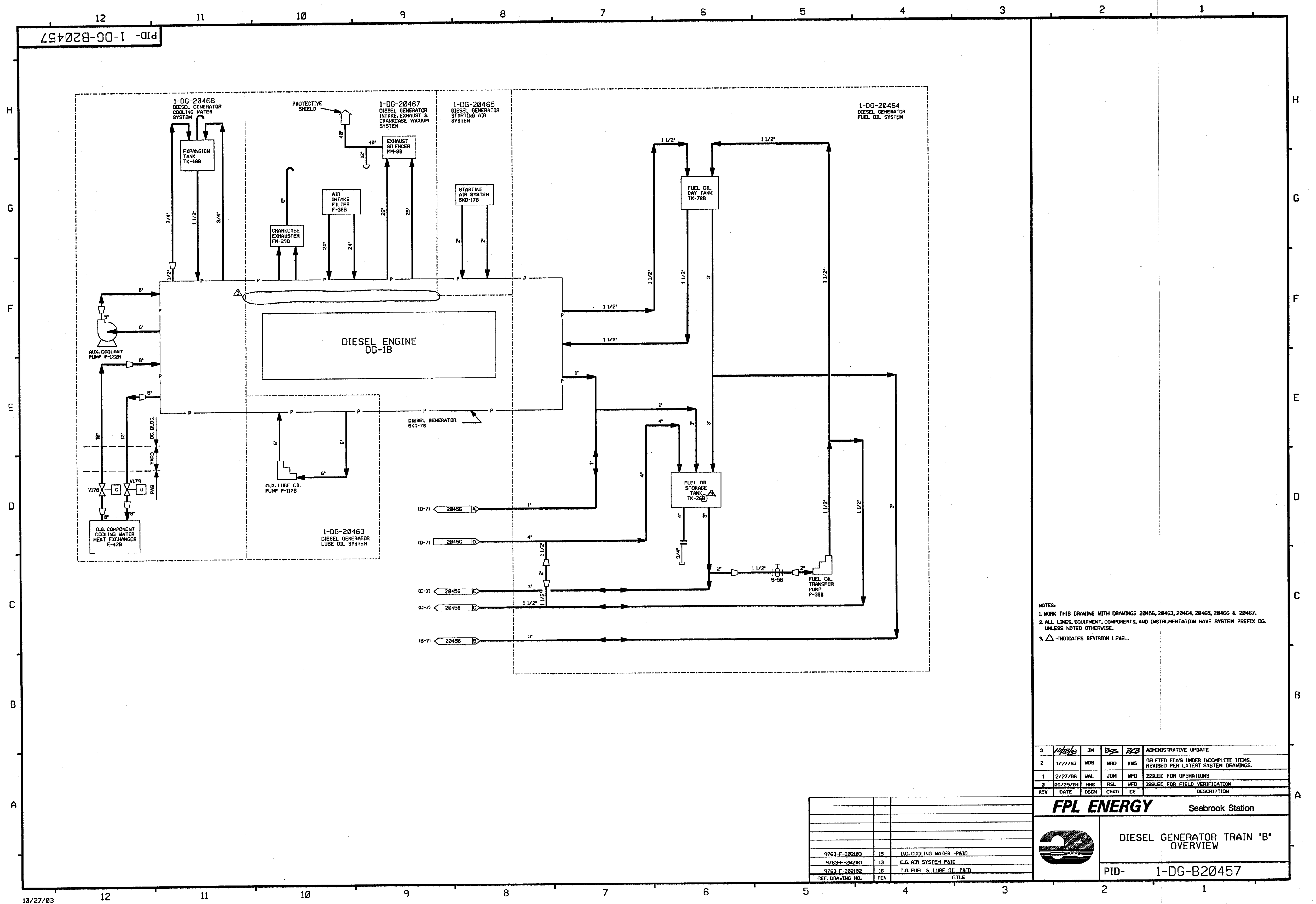
NOTES:  
 1. WORK THIS DRAWING WITH DRAWINGS 20457, 20458, 20459, 20460, 20461 & 20462.  
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.  
 3. △ INDICATES REVISION LEVEL.

3	10/25/03	BCS	JM	228	ADMINISTRATIVE UPDATE
2	1/21/02	WDS	WRD	VWS	INCDP, ECA 99/112651B, REVISED REF DWG REVISIONS, DELETED "B" FROM DWG NO'S IN NOTE 1, REVISED PER LATEST SYS. DWGS.
1	2/27/00	WAL	JDM	WFO	ISSUED FOR OPERATIONS
0	06/29/94	MNS	RSL	WFO	INCDP, ECA 99/112651A
REV	DATE	DSGN	CHKD	CE	ISSUED FOR FIELD VERIFICATION
					DESCRIPTION

**FPL ENERGY**

Seabrook Station  
**DIESEL GENERATOR TRAIN "A" OVERVIEW**  
 PID- 1-DG-B20456


9763-F-202103	14	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



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

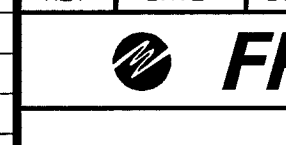
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

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.

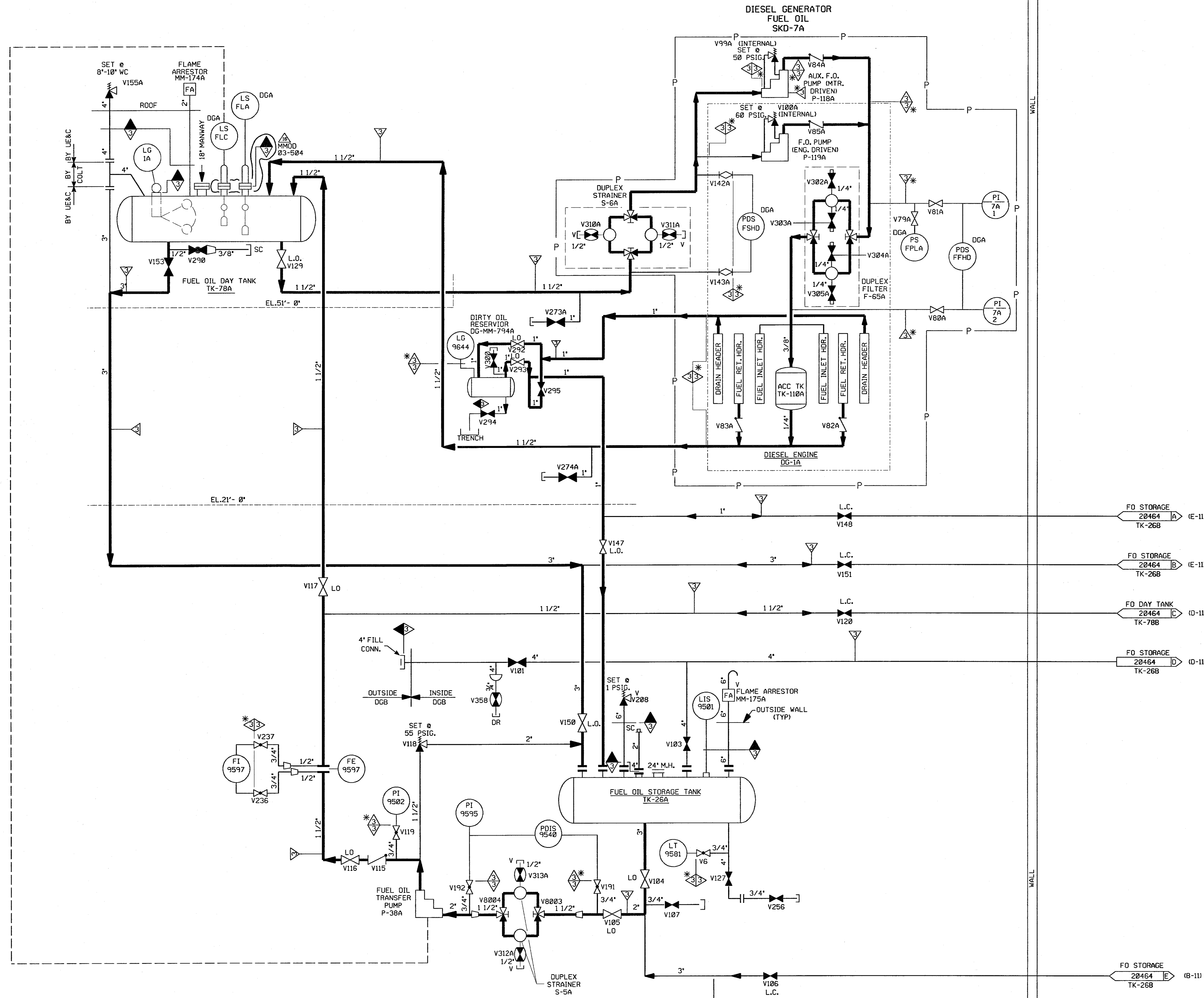
16	10-7-08	JM	Bas	JL	PARTIAL REINCORP MMOD 03-504 DCN 00
15	3/20/08	JM	BCS	JME	INCORP. MMOD 07-538 DCN 00 & MMOD 03-504 DCN 00
14	9/8/00	BCS	MPW	MKC	INCORP. DCR 90-029 DCN-0
13	11/1/95	MPW	BCS	VWS	INCORP. MMOD 96-550 CA0
12	11/1/95	BCL	MPW	RSB	INCORP. DCR 94-12 CA-0, 01 & MMOD 95-583 CA-0
11	5/27/94	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 APPR'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

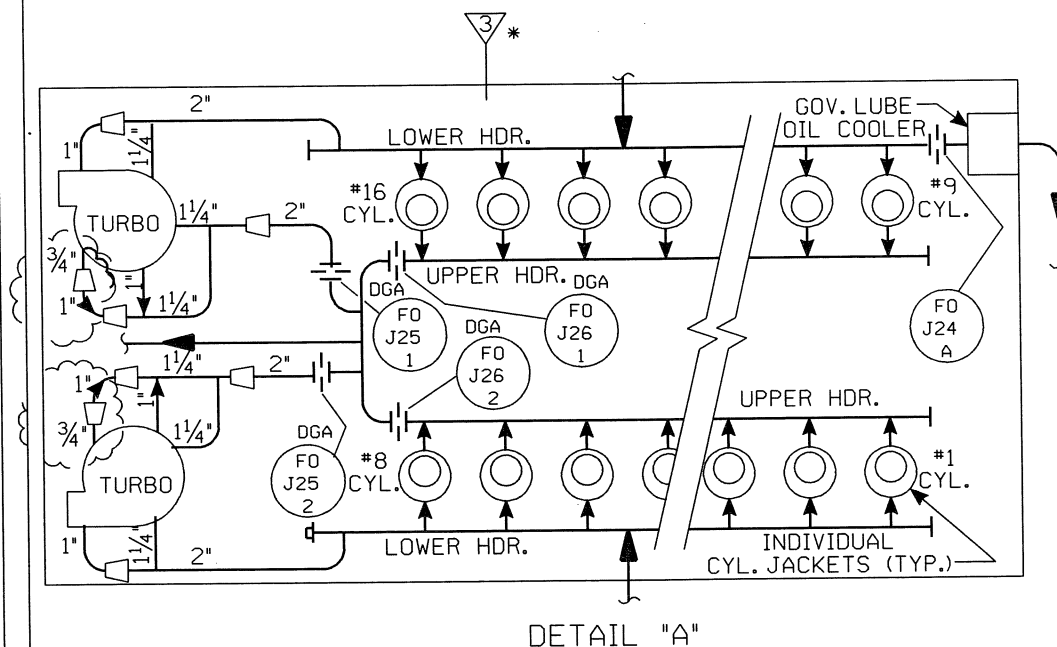
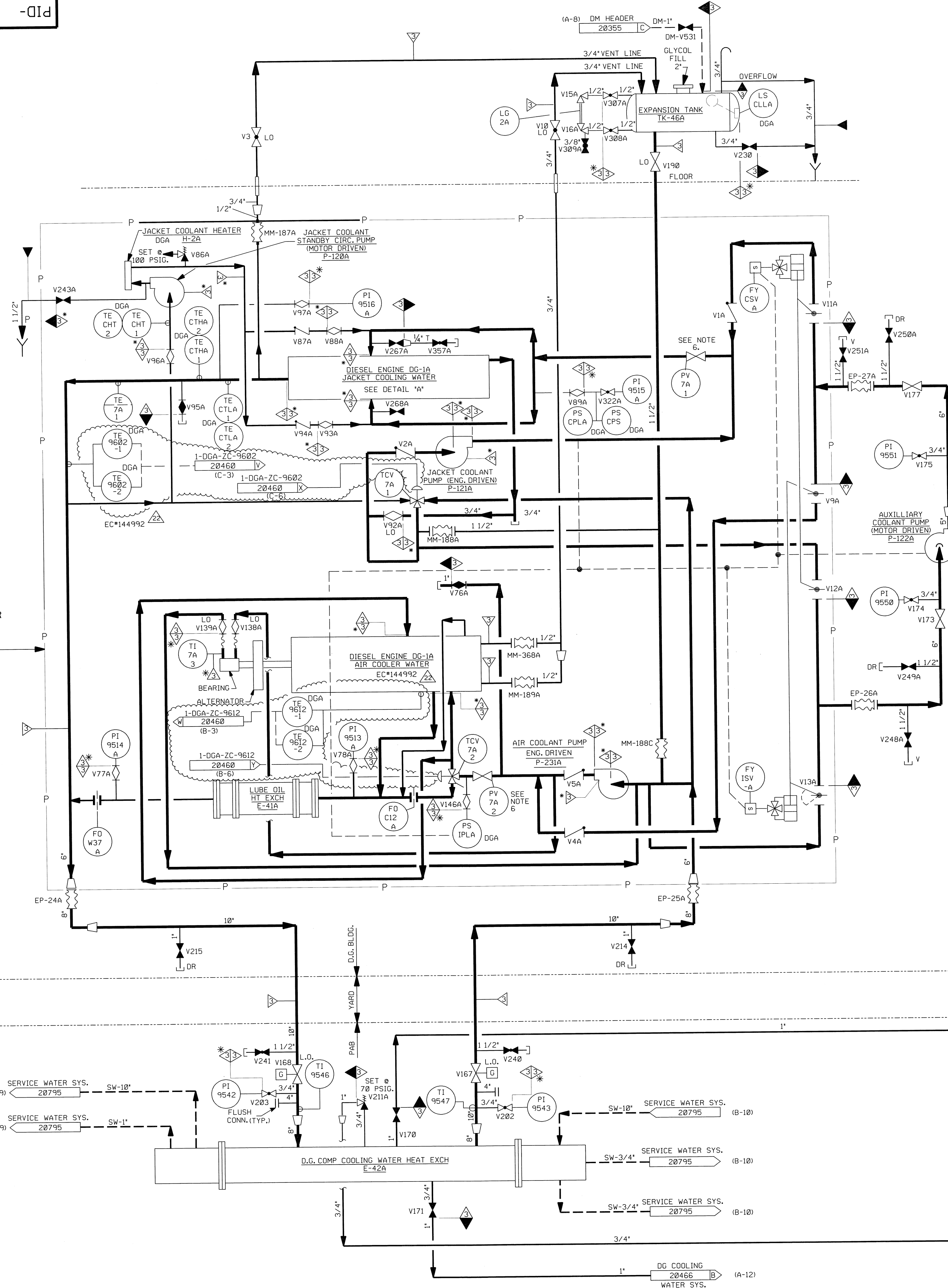
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
FP 20669	9	EMERG. DIESEL GEN. JACKET WTR. EXP. TANK			
FP 21070	9	EMERG. DIESEL GEN. FUEL OIL DAY TANK			
9763-F-202102	16	DG FUEL & LUBE OIL P&I DIAGRAM			
REF. DRAWING NO.	REV	TITLE			







PID-1-DG-B20461



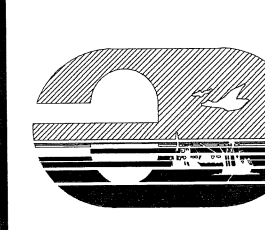
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20458, 20459, 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 1-NHY-805111, UNLESS NOTED OTHERWISE.
  5. INDICATES REVISION LEVEL.
  6. THIS VALVE HAS BEEN STAKED IN A PRE-DETERMINED THROTTLED POSITION.

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

22	10/1/12	JM	BCS	DJM	INCORP EC*144992 AND EC*274318
21	12/8/11	JM	BCS	AJH	INCORP EC*156655
20	2/5/10	BCS	JM	CIC	INCORP EC*145114
19	11/16/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00 & MSE 05-009 REV 00
18	10/15/03	BCS	MPW	RRB	INCORP MMOD 00-531 DCN-0
17	5/7/02	JM	MPW	DJM	INCORP MSE 01-0009 REV 0 AND CR 00-13290
16	11/19/00	BCS	MPW	SPF	INCORP DCR 00-0026 DCN-00
15	6/2/98	DRL	BCS	VWS	INCORP MMOD 97-521 DCN 00
14	10/30/95	BCL	MPW	GRM	INCORP DCR 94012 CA*0, 01 & REINCORP NCR 74/2538A
13	12/9/94	DWS	BCL	MHO	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 92-556 CA0 AND PARTIAL INCORP MMOD 92-545 CA0
10	4/23/92	MRB	BCL	RRB	INCORP MMOD'S 91-515 CA0 & 91-622 CA0
9	10/29/89	MRB	JM	BCL	INCORP MMOD 90-691 CA00
8	12/2/88	MRB	GPM	GRM	INCORPORATED DCR 88-122 CA0 REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS & 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 205988 & FP 22574, CORRECTED TAG NUMBER OF TI-9546 PER DISPOSITION OF CAR 86/22A.
4	10/10/86	PAL	BCL	RRC	CHANGED TI-9546 TO TI-9547 PER CAR 86/22A, CORRECTED CLASS BREAK SHOWN IN DGA ADDED PER UEC P&ID, ADDED V271 & LINE NO. PER NCR 94/1382A RELOCATED P1-9542 & TI-9547 PER PIPING ERECTION ISO, ADDED CHANGE ITEM 1, PER CAR 86/22A, ADDED FOREIGN PRINT NO'S & DWG COORDINATE LOCATIONS & NOTE 5.
3	6/23/86	JDM/BCL	VNK	RRC	REVISED SAFETY CLASS-ADD SPEC BREAKS REVISE VALVE POSITION INCORP. NCR-94/1382B
2	2/27/86	WAL	JDM	WFD	ISSUED FOR OPERATIONS & INCORP. ECA 19/105842A
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

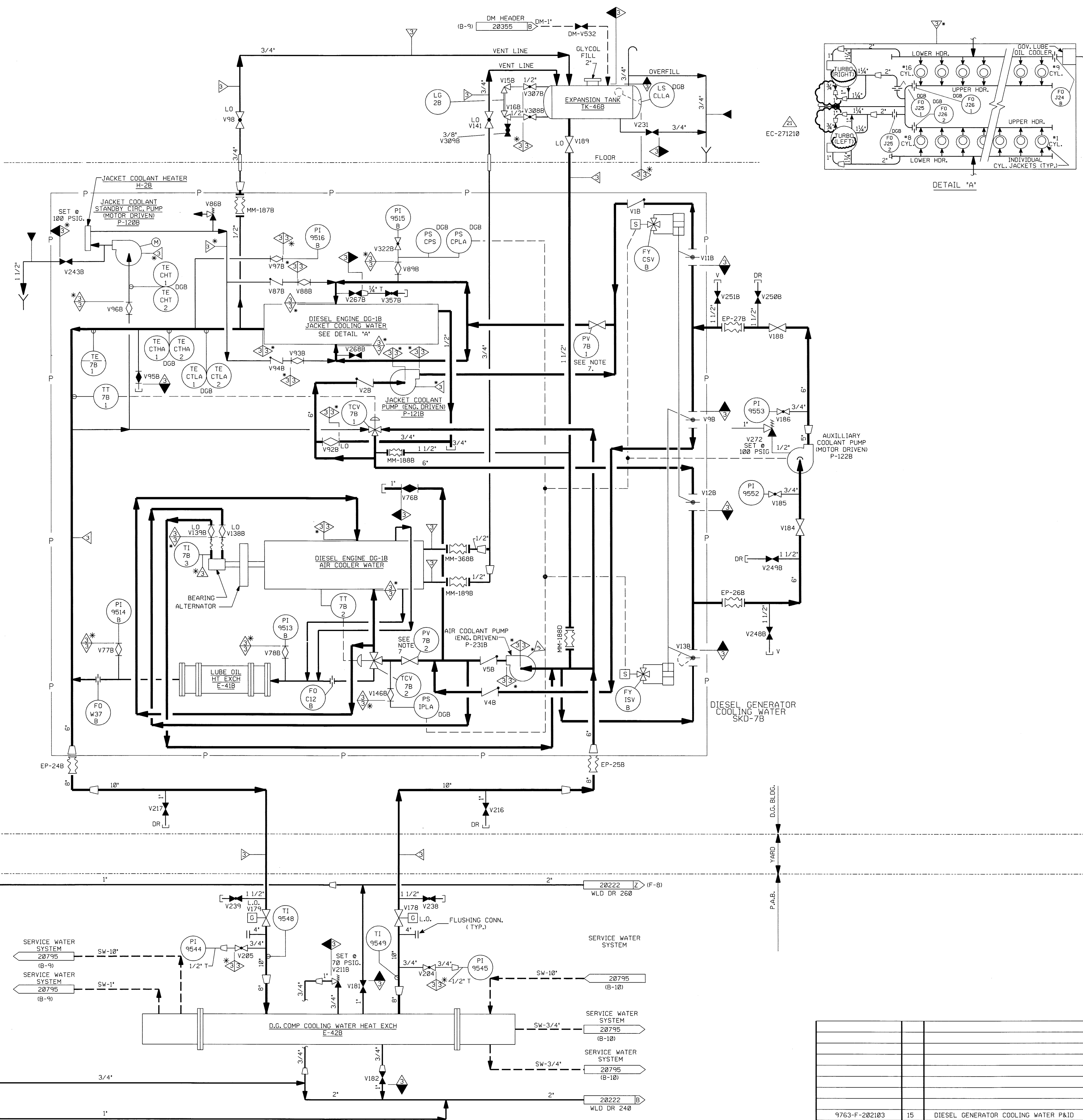
FP 21175	4	DG COOLANT BACKUP JW PMP. & MTR. OUTLINE
FP 20699	9	EMERG. DG SKID GEN. ARRGM'T
FP 21069	7	EFWP PUMP ASSEMBLY
9763-F-202103	14	DIESEL GENERATOR COOLING WATER - P&ID
REF. DRAWING NO.	REV	TITLE



**NEXTERA ENERGY**  
SEABROOK  
DIESEL GENERATOR COOLING WATER  
SYSTEM TRAIN "A"  
DETAIL  
PID-1-DG-B20461

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:

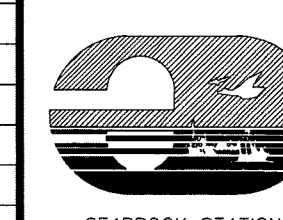
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20461, 20463, 20464, 20465 & 20467.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG.
3. DELETED
4. VENT, DRAIN & TEST CONN. CODE AND SAFETY CLASS BREAKS ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, 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**

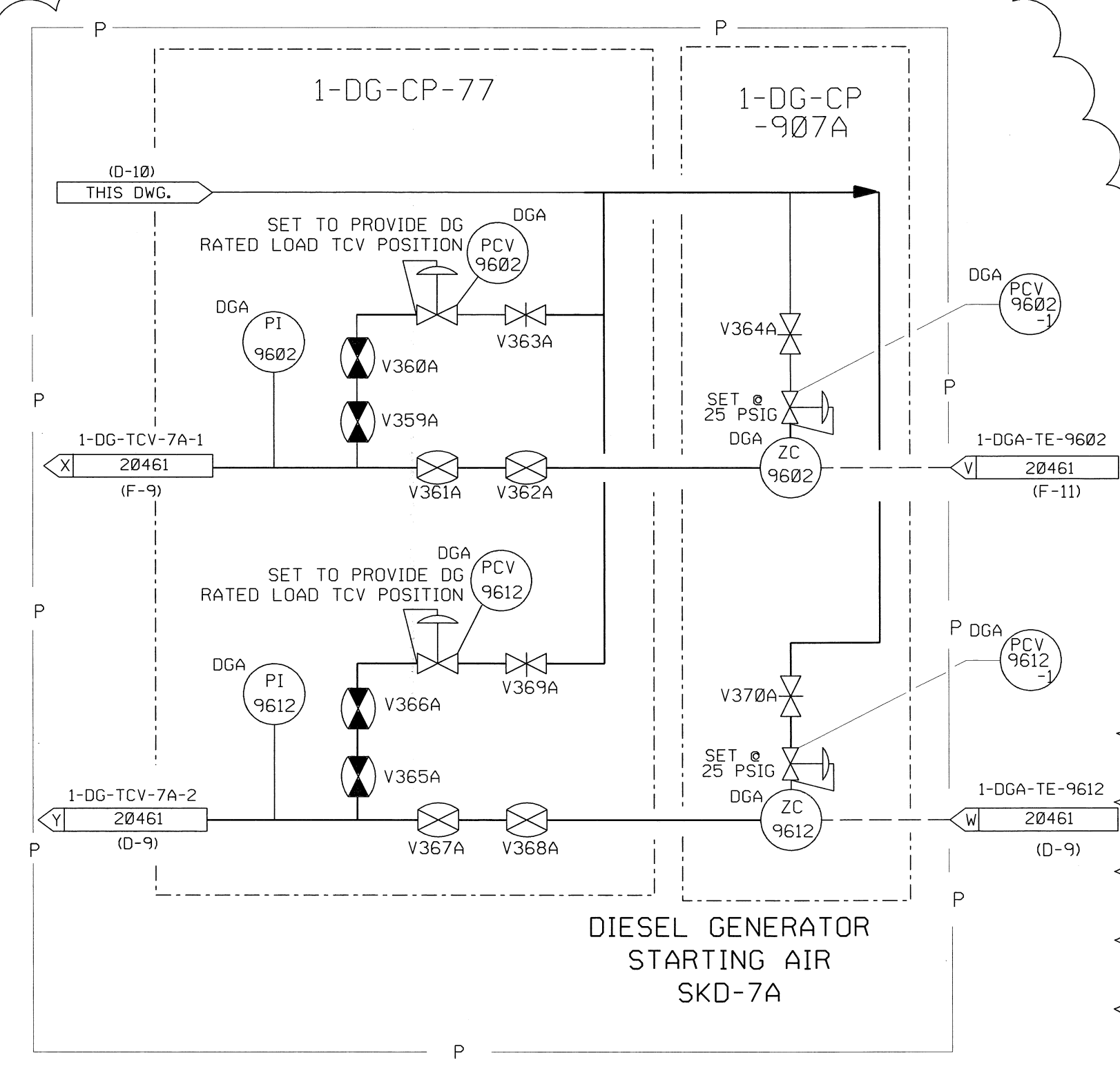
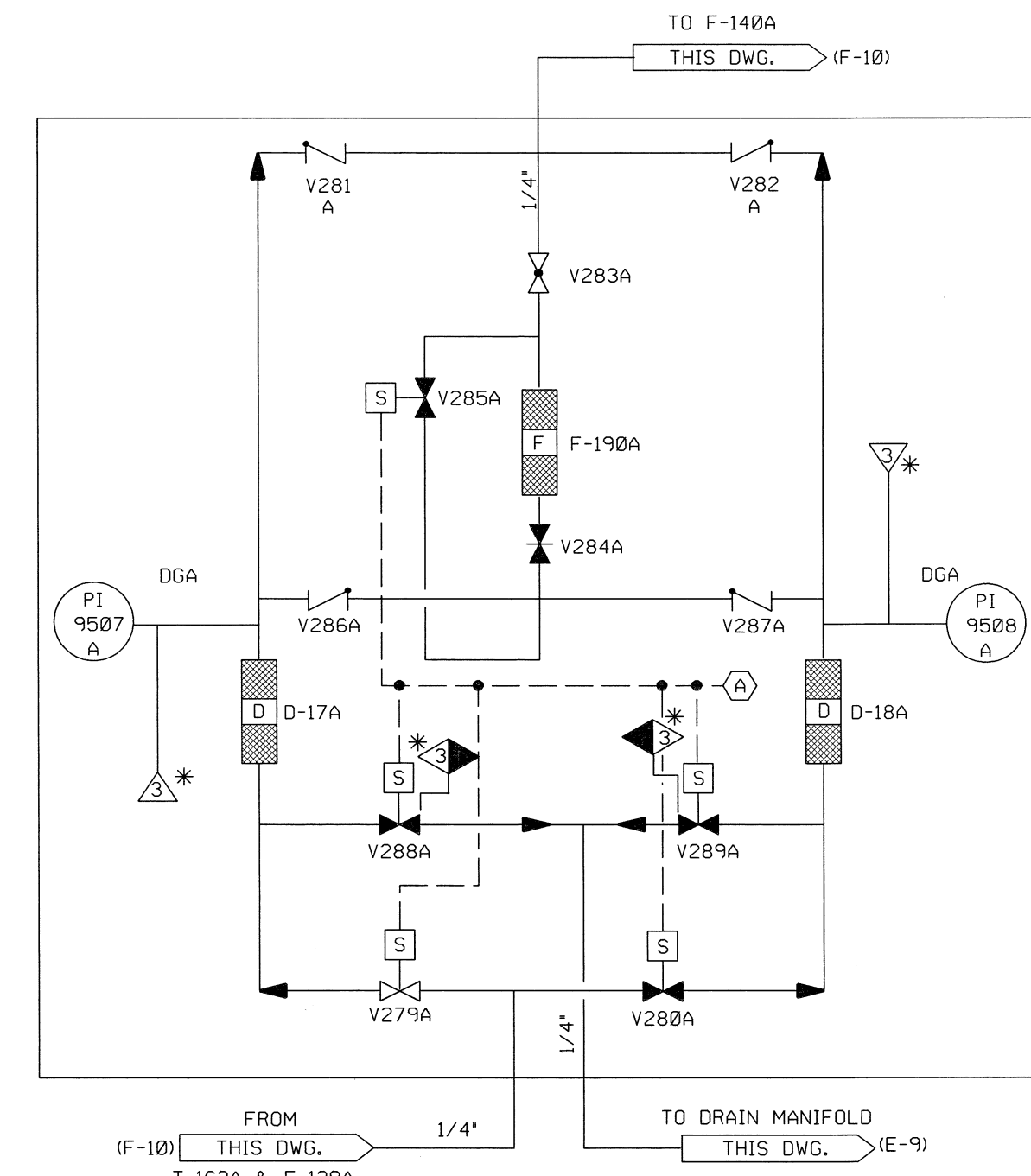
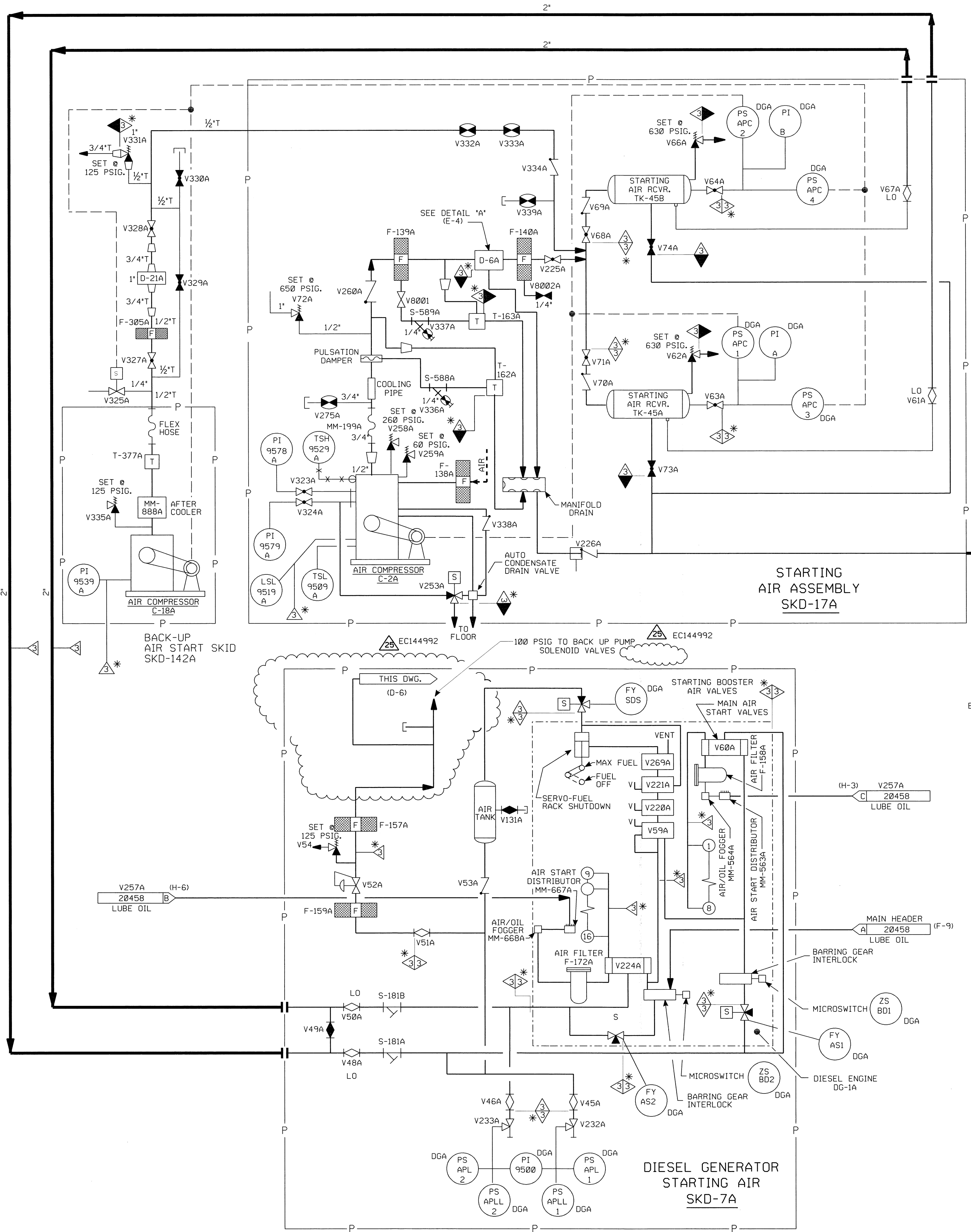
PID- 1-DG-B20466

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



094028-B-1-DIG

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-86-876-1HEC.
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 & 99/112615A
1	11/29/84	DWS	JNM	PEF	CODE BREAKS ADDED
0	06/29/84	MNS	RSL	WFD	ISSUED FOR FIELD VERIFICATION

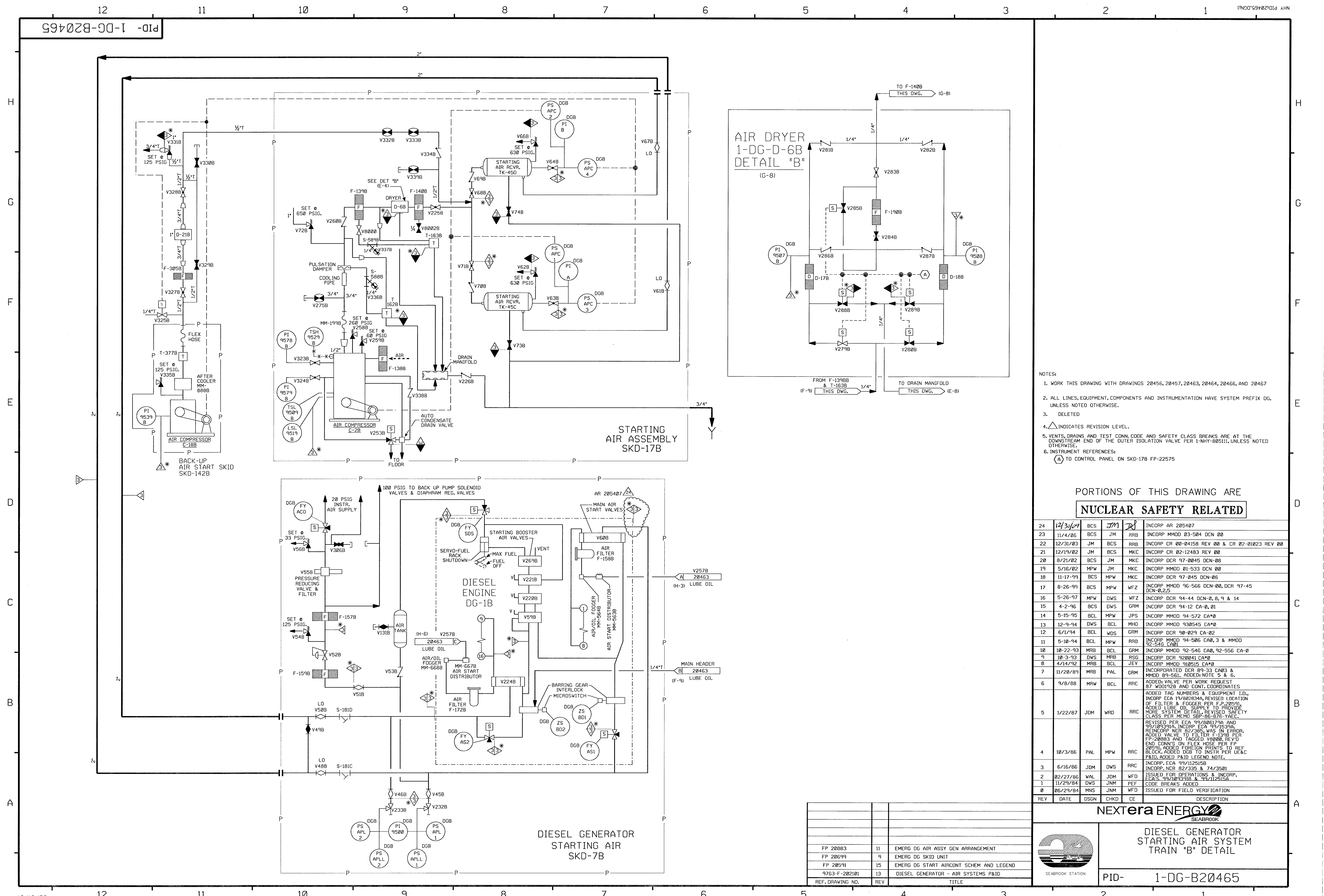
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
FP-20883	12	EMERG.DIESEL STARTING AIR ASSEMBLY SKD-17A			
FP-20699	13	DIESEL GENERATOR STARTING AIR SKD-7A			
9763-F-202101	13	DIESEL GENERATOR-AIR SYSTEM P&ID			
REF. DRAWING NO.	REV	TITLE			



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

PID- 1-DG-B20460





- 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-005111, UNLESS NOTED OTHERWISE.
  6. INSTRUMENT REFERENCES:  
(A) TO CONTROL PANEL ON SKD-17B FP-22575

PORTIONS OF THIS DRAWING ARE  
NUCLEAR SAFETY RELATED

24	12/30/01	BCS	JM	RR	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-0,2,5
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

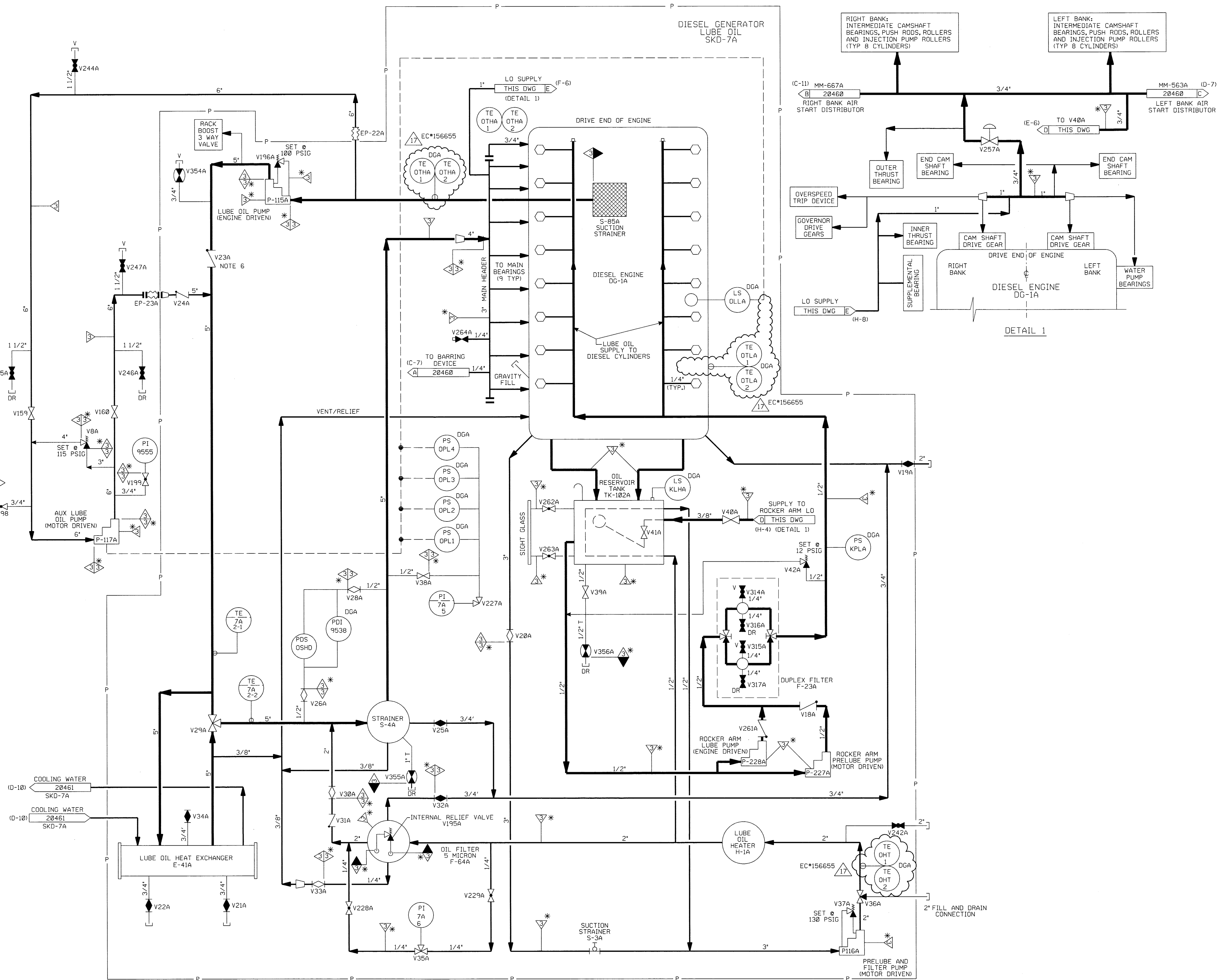


DIESEL GENERATOR  
STARTING AIR SYSTEM  
TRAIN "B" DETAIL

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

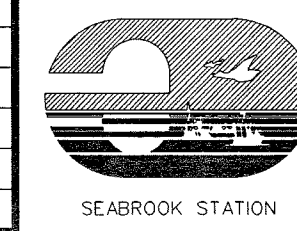


- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457 & 20459 THRU 20462.
  2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
  3. DELETED.
  4. VENT AND DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 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, ADDED 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



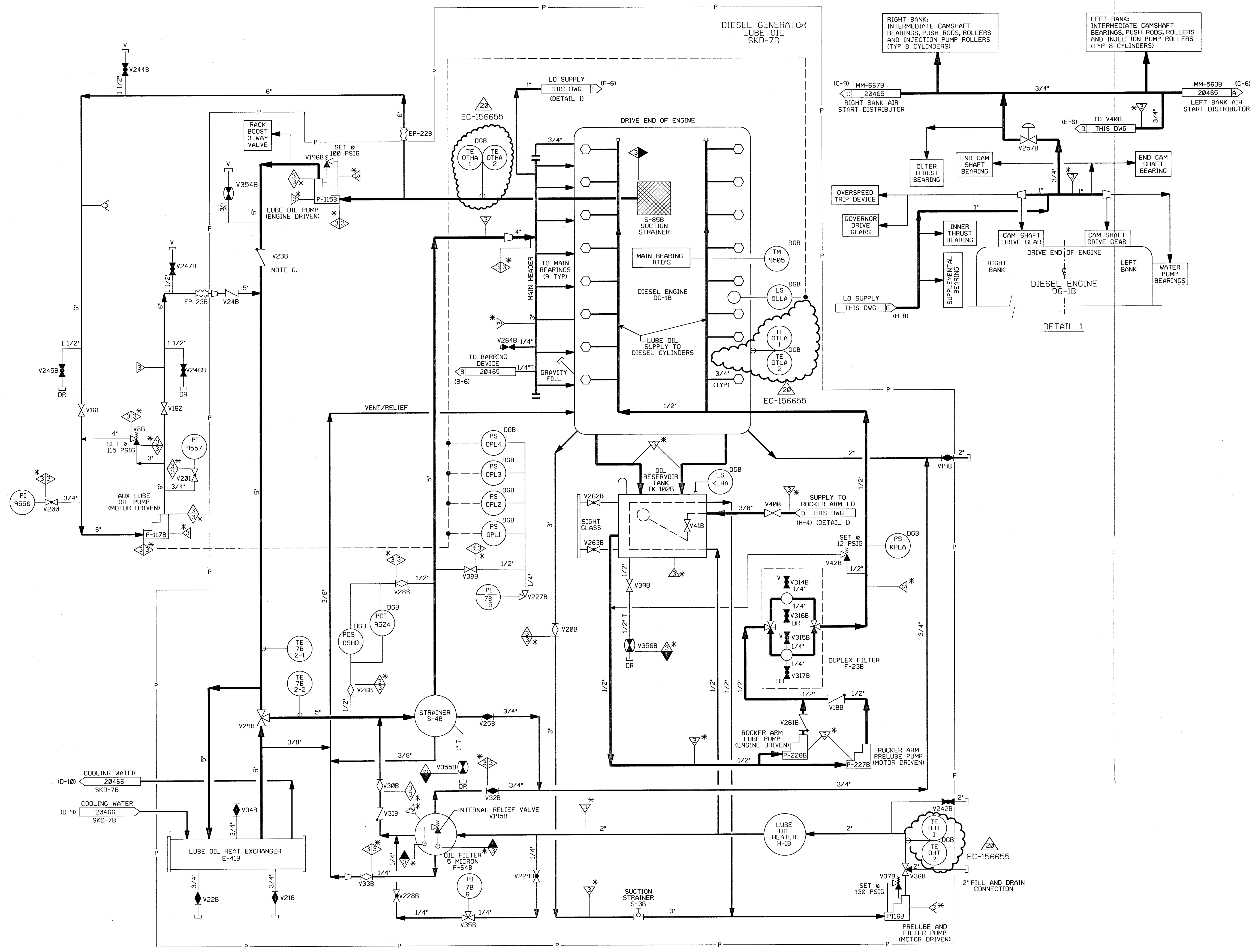
**DIESEL GENERATOR LUBE OIL  
SYSTEM TRAIN "A"  
DETAIL**

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. MMOD 98-0554 DCN*00 & 01
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	5/8/94	MRB	MPW	RRB	INCORP. MMOD 92-546 CA0 & DCR 90-029 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, 20598	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.

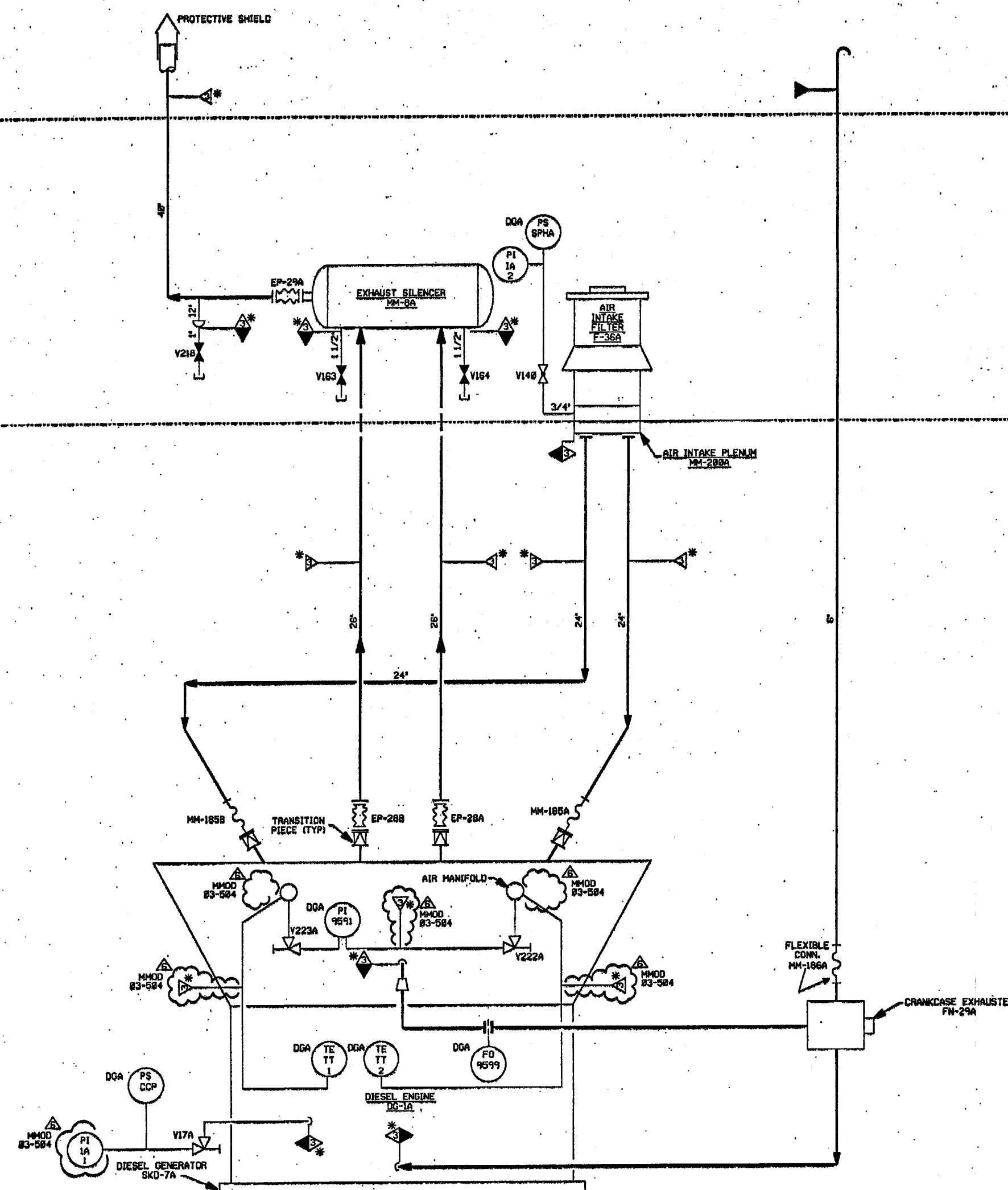
6	11/16/86	JM	W-2	222	INCORP MMOD 83-584 DCM 88
5	10/6/99	BCS	WFM	CVE	INCORP MMOD 980554 DCM-88.81
4	7/30/97	WFM	BCS	YWS	INCORP MMOD 960558 DCM 81
3	4/2/96	BCL	WFM	GRM	INCORP DCR 94-12 C&B & ADDED NOTE 5.
2	10/7/86	PNL	HAP	BRC	ADDED PIPE & CAP PER ERECTION ISO. ADDED DCA PER LEGAL PAID ADDED FOREIGN 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

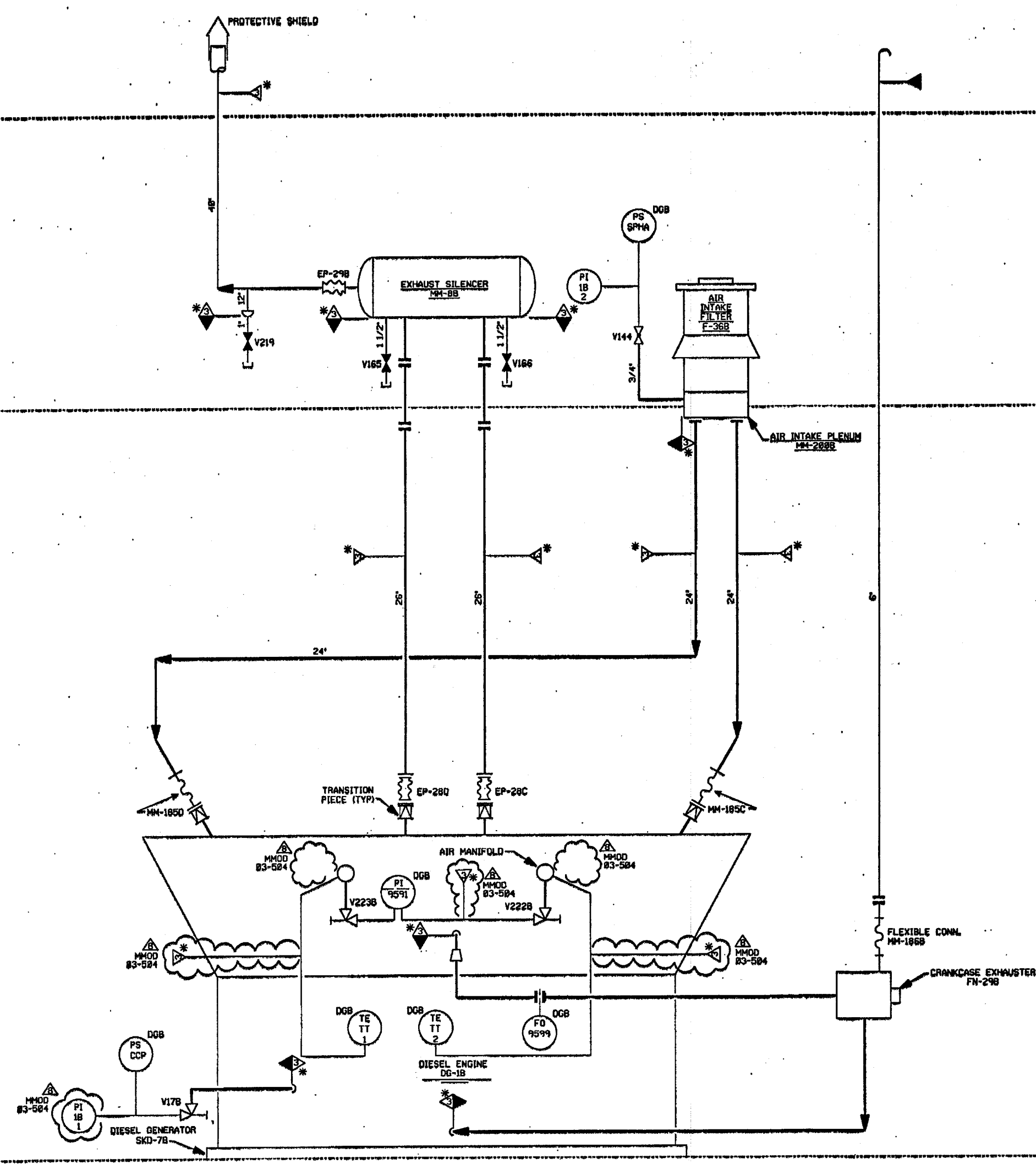
FP20589	89	EMERG DG INTX, EXT 4 & CRK SCHEM
FP20983	88	EMERG DG AIR INLET FILTER (RY TYPE)
FP20848	87	EMERG DG EXHAUST SIL, 148 INCH 26 INLETS
9763-F-202181	13	DIESEL GENERATOR AIR SYSTEM PAID
REF. DRAWING NO.	REV	TITLE





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	11/2/99	JH	BCS	228	INCRP MMOD 83-504 DCM 00
7	9/25/99	DWS	BCS	CVE	INCRP MMOD 98554 DCM 00 & 01
6	7/28/97	MPV	BCS	VVS	INCRP MMOD 95-558 DCM 01
5	11/2/95	BCL	MPV	GRM	INCRP DCR 94-12 CMB & CMB
4	5/11/92	MRS	BCL	GRM	INCRP MMOD 91-622 CMB
3	10/3/86	MWP	BCL	RRC	REVISED PER PIPING CONNECTION ISSUES & LATEST U.S. PAID-LEGEND NOTE 1 & 2. DELETED TO REF. DELETED & DESIGN FROM NOTE 1, ADDED DELETED NOTE.
2	5/25/86	WAL	VNK	RRC	UPDATED PER LATEST U.S.A.C. PAID.
1	02/27/86	WAL	JOM	WFO	ISSUED FOR OPERATIONS
0	06/29/84	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

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
9					EMERG DG INTK, EXH & CRANKCASE VACUUM SYS
5					EMERG DG AIR INLET FILTER (DRY TYPE)
E					EMERG DG EXHAUST SILENCER 18 IN 26 INLET
13					D.G. AIR SYS. PAID