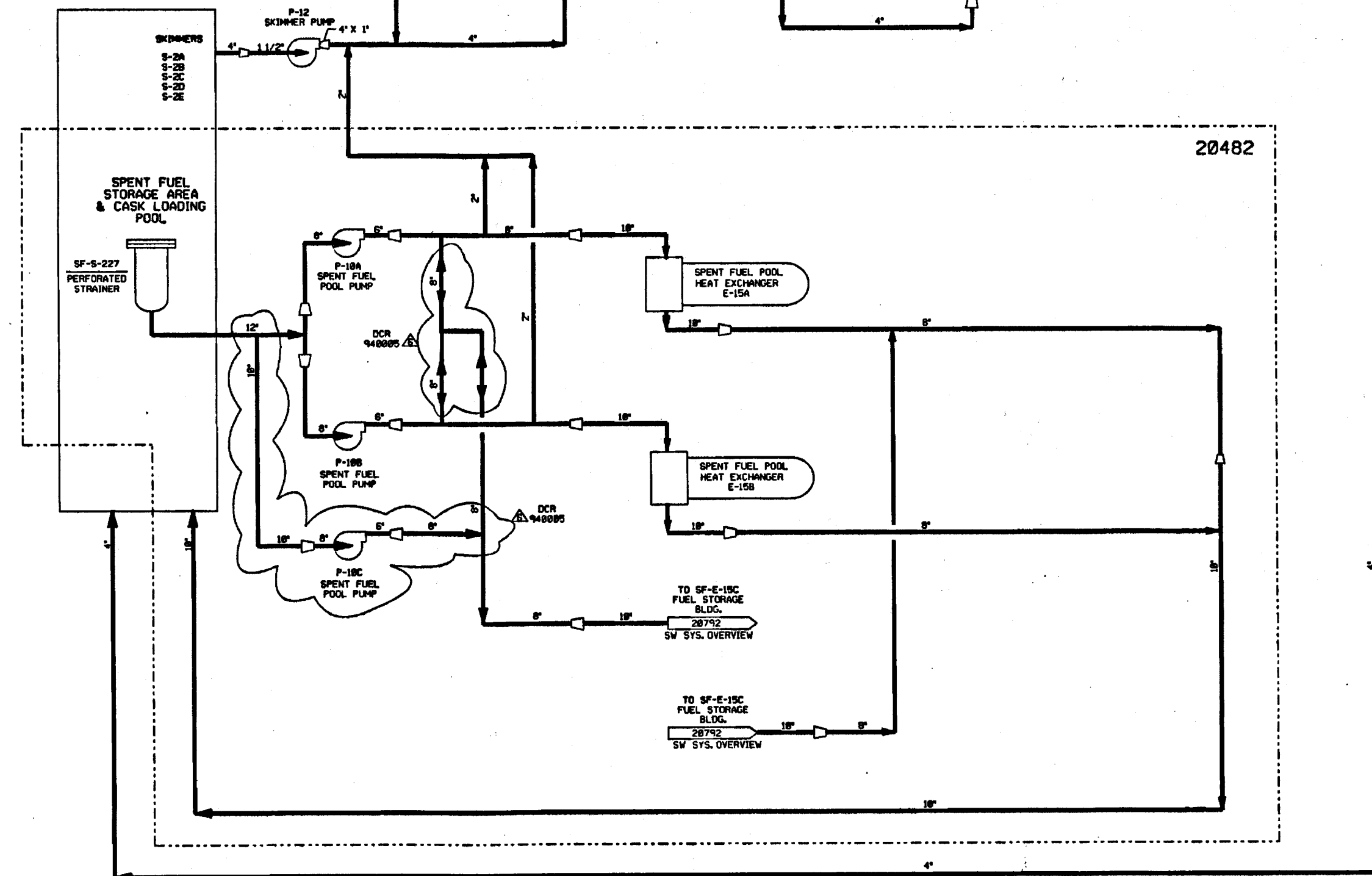
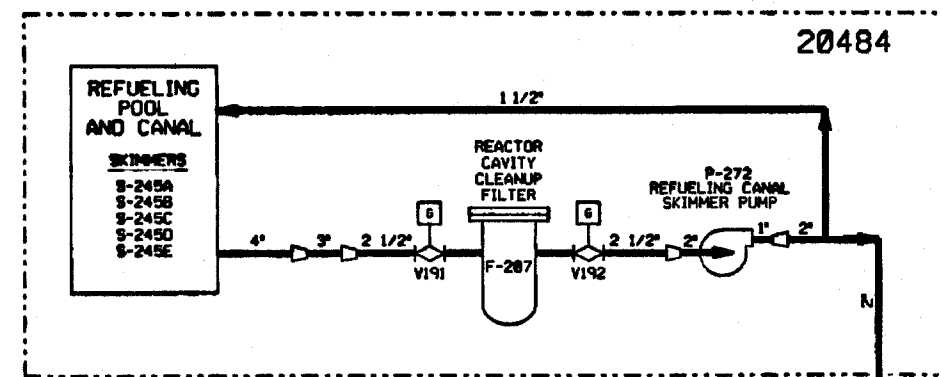


12 11 10 9 8 7 6 5 4 3 2 1
PID-1-SF-B20480



NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20482, 20483 & 20484.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "1-SF" UNLESS OTHERWISE NOTED.
3. Δ INDICATES REVISION LEVEL.

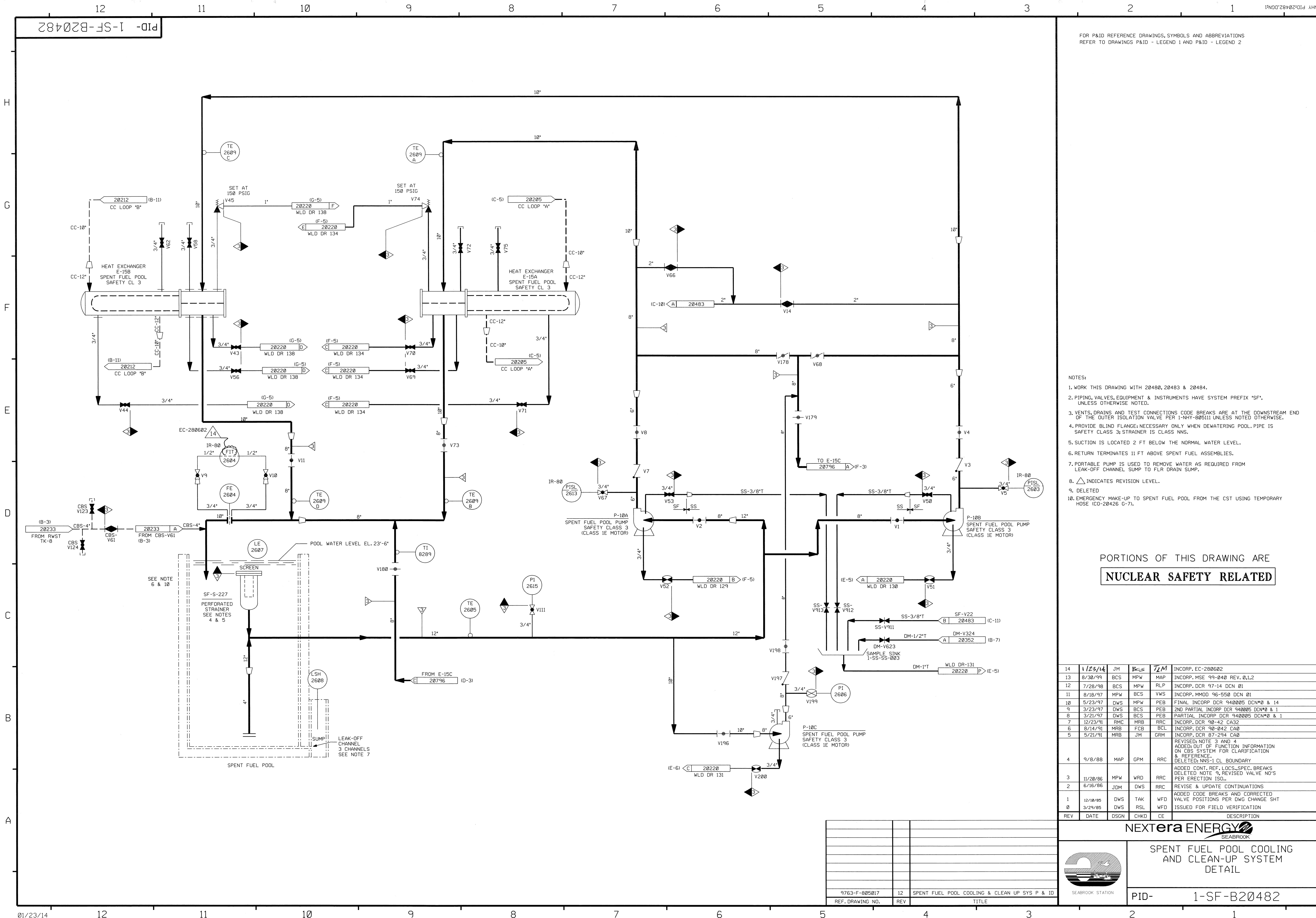
6	4/27/77	DWS	---	BCL	MPW	PSB	INCORP DCR 940085 CASH
5	12/23/91	MRB	---	RND	MPW	NRG	INCORPORATED DCR 98-42 CA32
4	9/14/91	GPM	JM	FCB	MRB	BCL	INCORPORATED DCR 98-42 CA31
3	9/8/91	MRB	JM	FCB	GPM	JEV	INCORPORATED DCR 98-47 CA84
2	2/28/87	MPW	OPD	PAL	BCL	NRG	REVISED PER LATEST SYSTEM DRAWINGS
1	2/18/85	TAK	MRB	TAK	DHF	WFD	CENTRAL REVISIONS & ISSUED FOR OPERATIONS
0	03/24/80	DWS	GJK	RSL	DHF	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

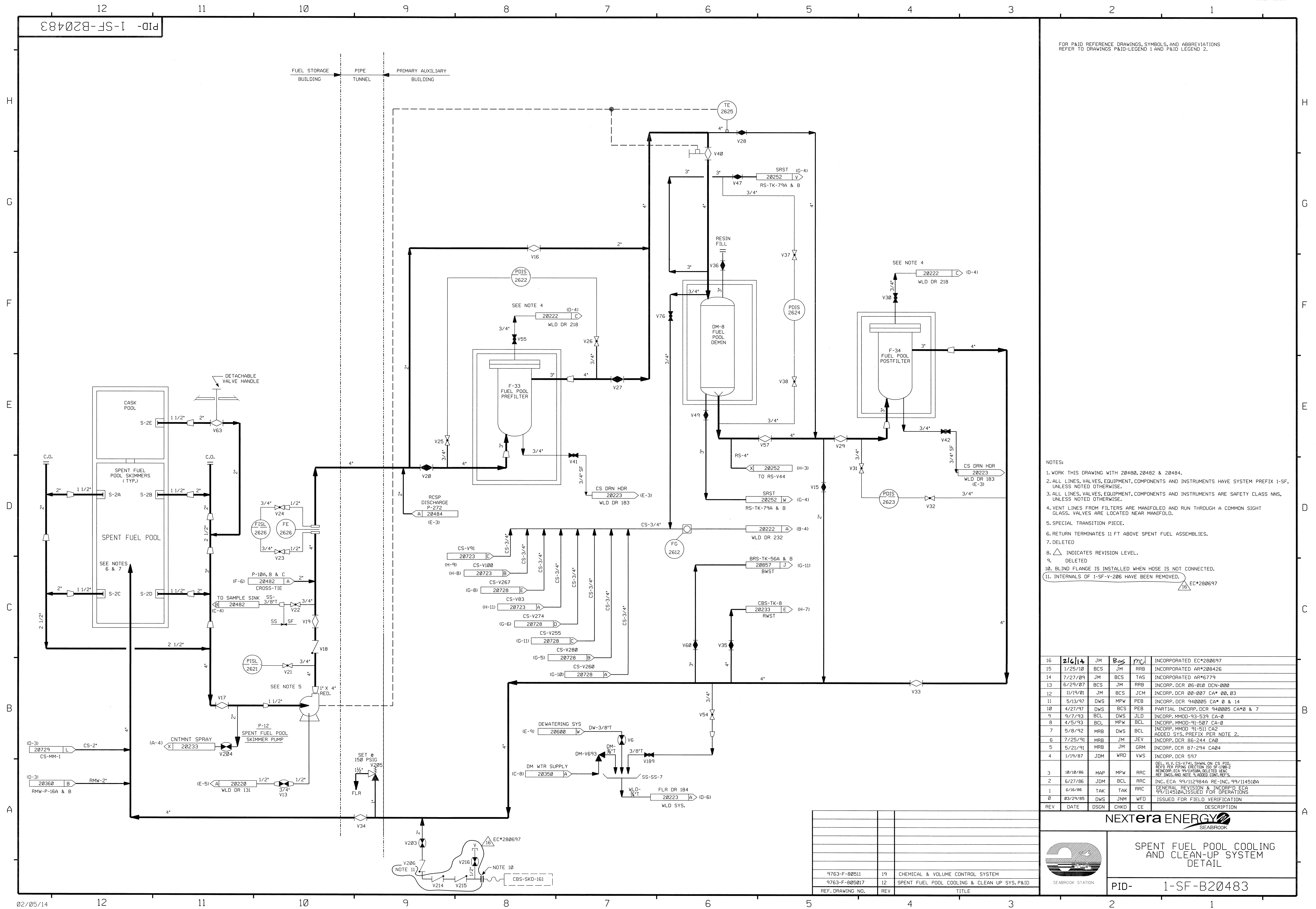
North Atlantic Energy Service Corporation

SPENT FUEL POOL COOLING AND CLEAN-UP SYSTEM OVERVIEW

PID-1-SF-B20480

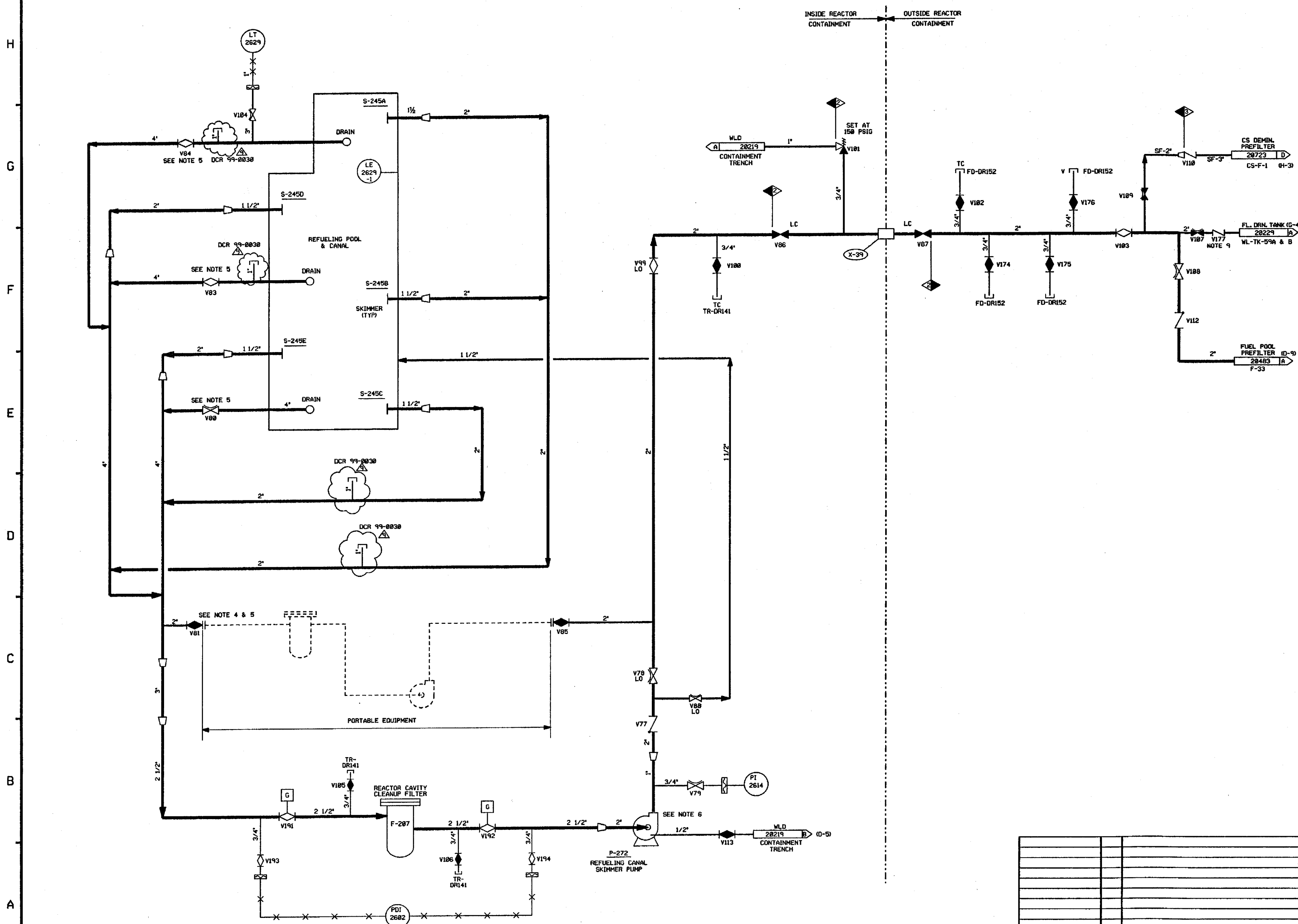
9763-F-805817	11	SPENT FUEL POOL COOLING & CLEAN-UP SYS. P&ID
9763-F-884988	5	REFUEL CAV CLEAN-UP SYS P & ID
REF. DRAWING NO.	REV	TITLE





PID-1-SF-B20484

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 28480, 28482 & 28483.
 2. ALL LINES, EQUIPMENT, COMPONENT & INSTRUMENTS HAVE SYSTEM PREFIX "SF", UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 4. REMOVE BLIND FLANGE DURING PLANT POWER OPERATION, CLOSE VALVE & REPLACE BLIND FLANGE PRIOR TO REFUELING.
 5. VALVE MUST BE LEFT OPEN DURING PLANT POWER OPERATION.
 6. SEE DRAWING 28353 FOR MECHANICAL SEAL SUPPLY TO PUMP P-272
 7. DELETED
 8. Δ INDICATES REVISION LEVEL.
 9. Δ SPRING LOADED, PISTON STYLE CHECK VALVE.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
1	9/17/88	BCS	---	APL	---	---	PARTIAL INCORP DCR 99-0838 DCR-88, 89
2	6-13-97	DWS	---	MPV	FAC	DMD	INCORP DCR 970808 DCR-98
3	12/15/94	MPV	---	BCL	DWS	MMD	INCORP MMD 93-545 CA 8
4	9/28/91	GPM	JM	FCB	MRB	IV	INCORP DCR 88-238 CA 8
5	8/8/91	MRB	JM	FCB	GPM	GRM	INCORP DCR 90-47 CA 8 AND DCR 86-163 CA 8
6	5/9/89	MRB	FCB	PAL	APL	GRM	INCORP DCR 88-338 CA 82 REVISED NOTES 2,3,6, NUCLEAR SAFETY RELATED LABEL
7	10/17/88	MAP	GPO	BCL	YMK	RRC	INCORP ECA 99-113342A ADDED DNG, LOC. CONTR. DELETED NOTE 7, REVISED PER DESG P&ID.
8	6/13/86	DWS	TAK	BLI	JMS	RRC	INCORP NCR 73/0444C, ADDED WL CONT. CFR-84, APPROVED DESIGN CHG. 1 & 2
9	12/18/95	TAK	MRB	TAK	DHF	WFD	GENERAL REVISIONS & ISSUED FOR OPERATIONS
10	8/3/2000	DWS	GJK	JNM	DHF	WFD	ISSUED FOR FIELD VERIFICATION

North Atlantic Energy Service Corporation

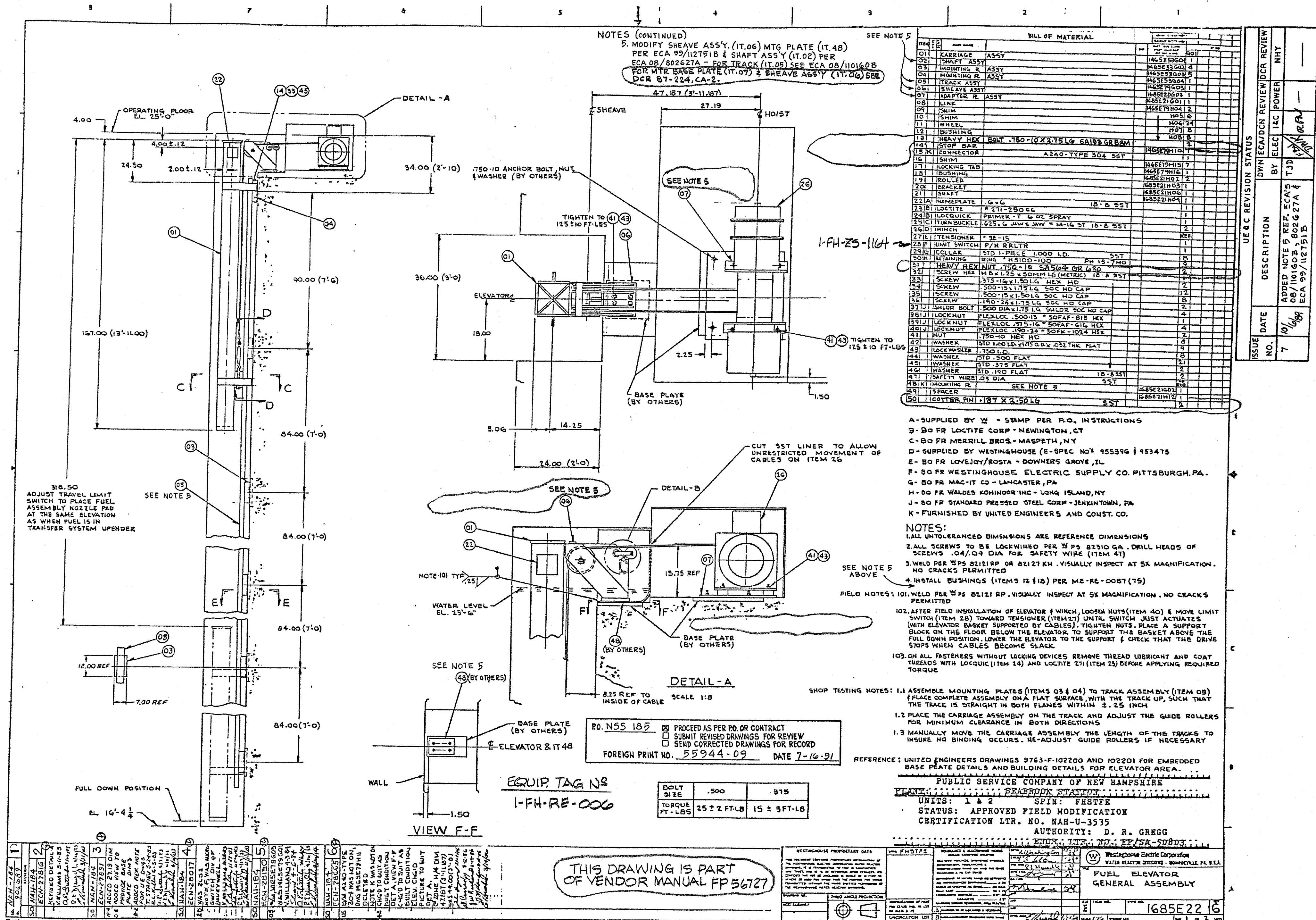


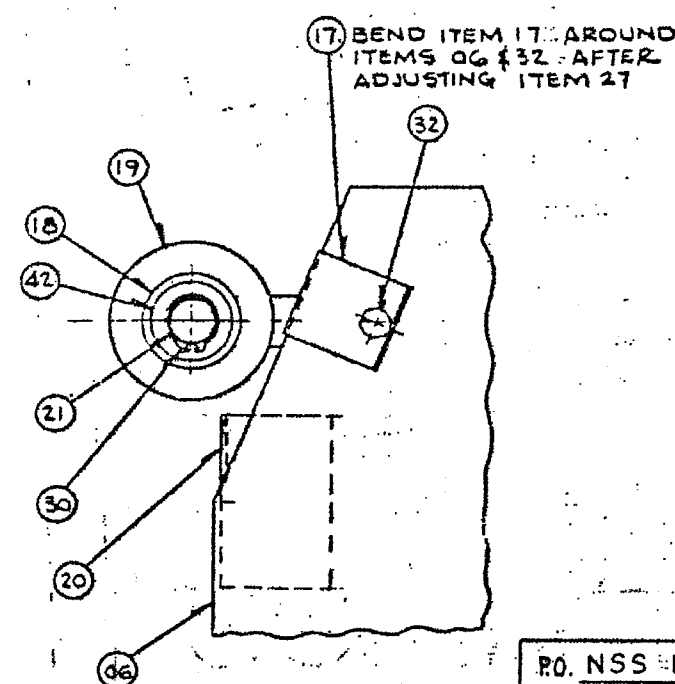
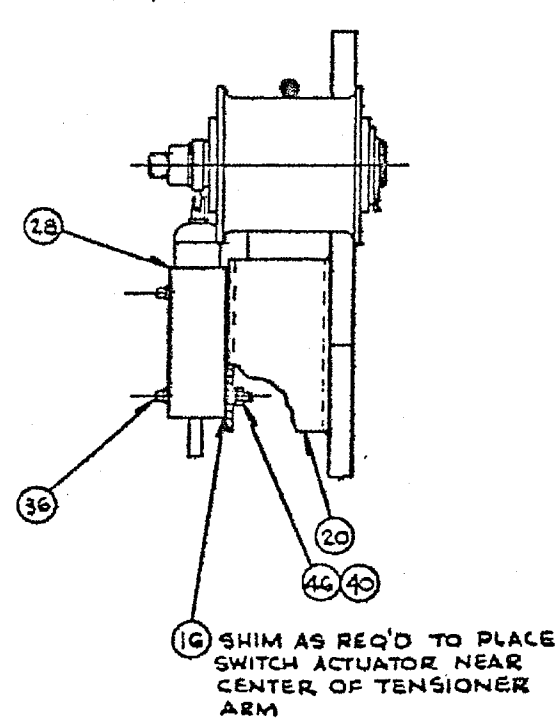
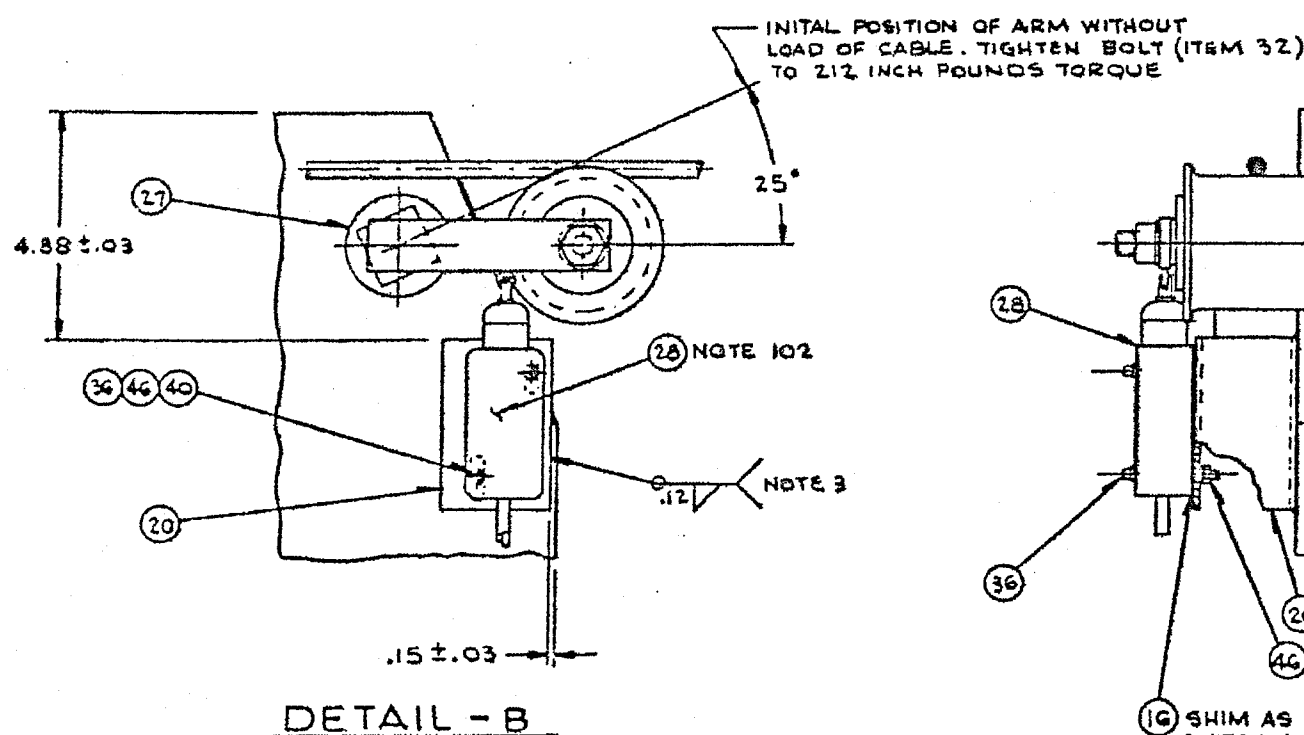
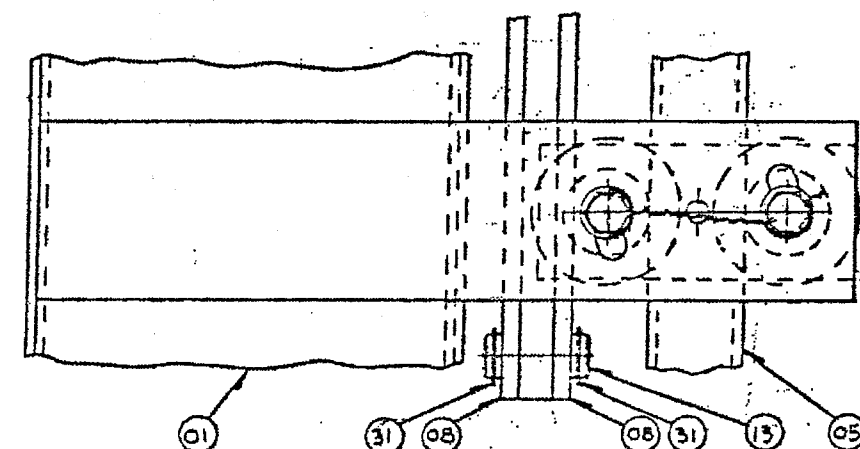
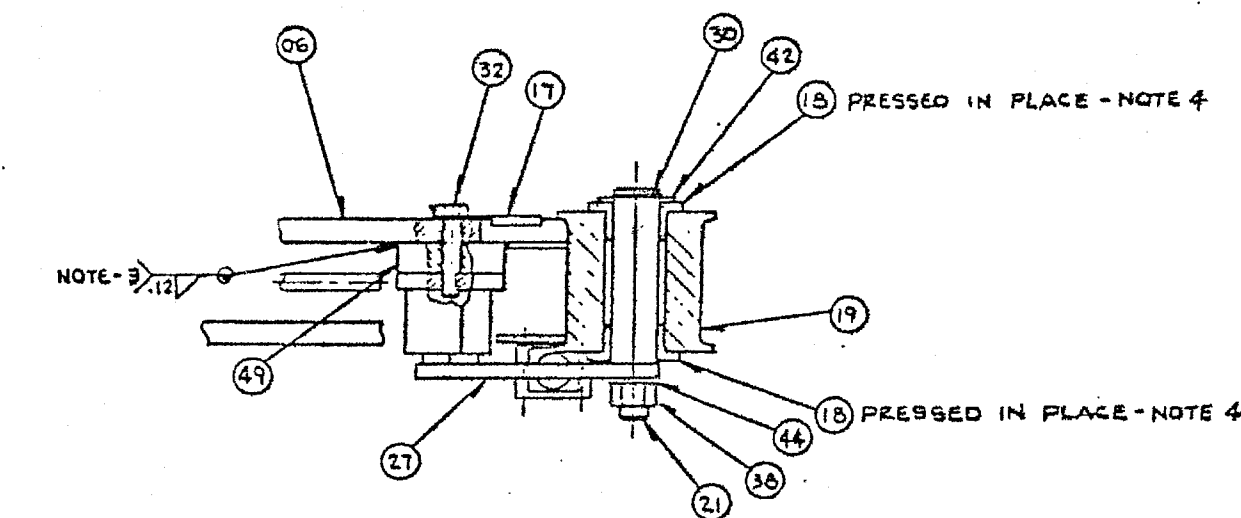
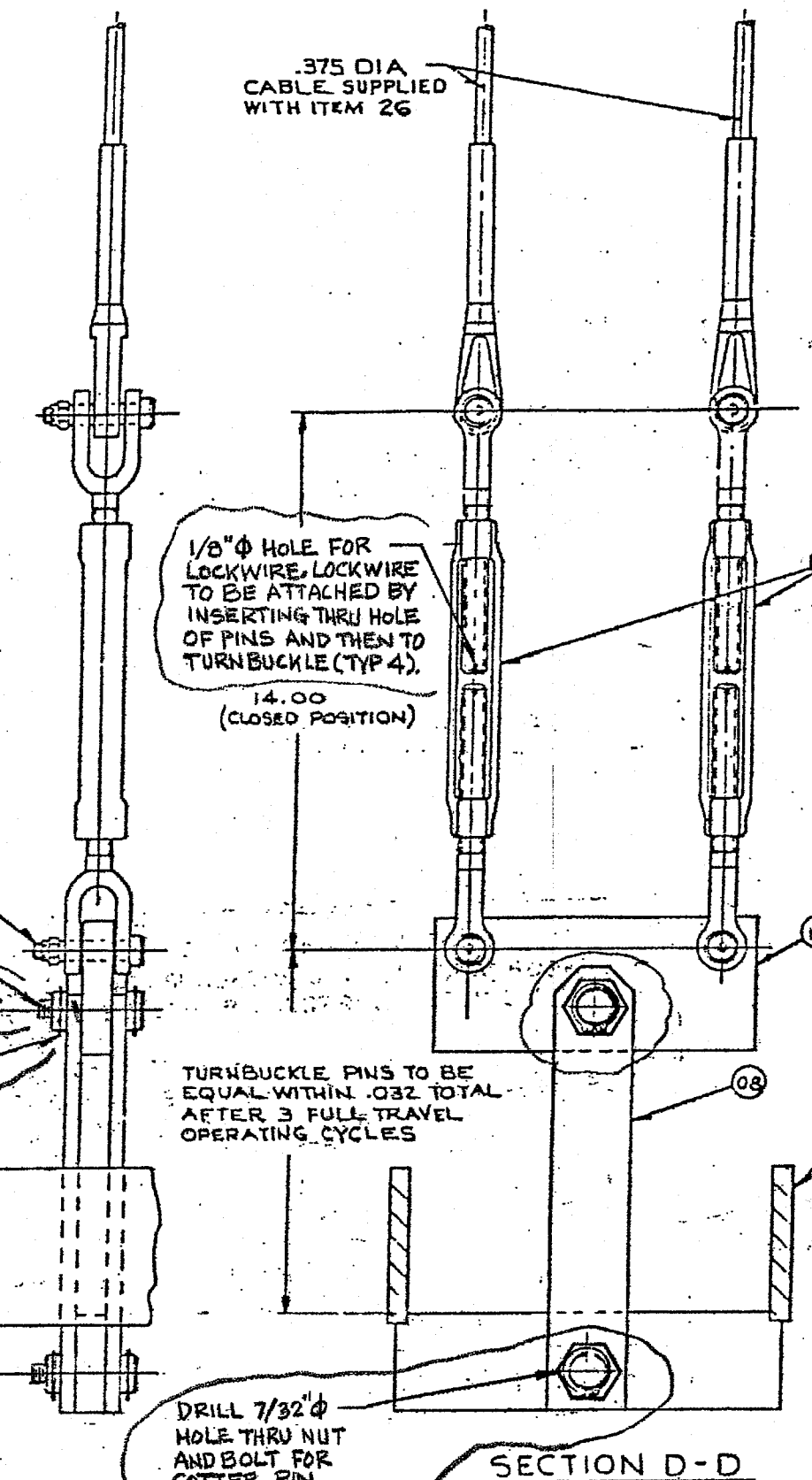
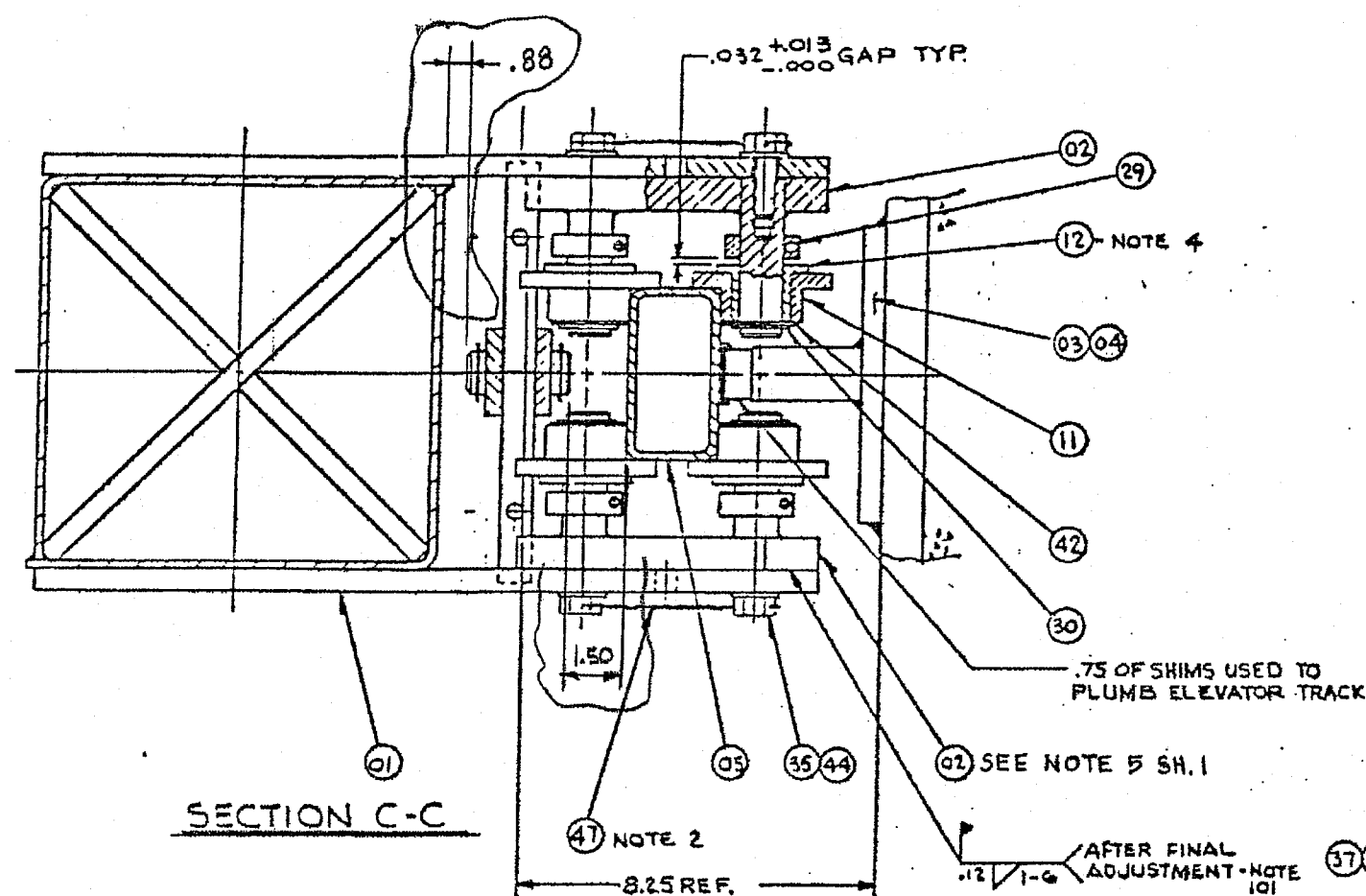
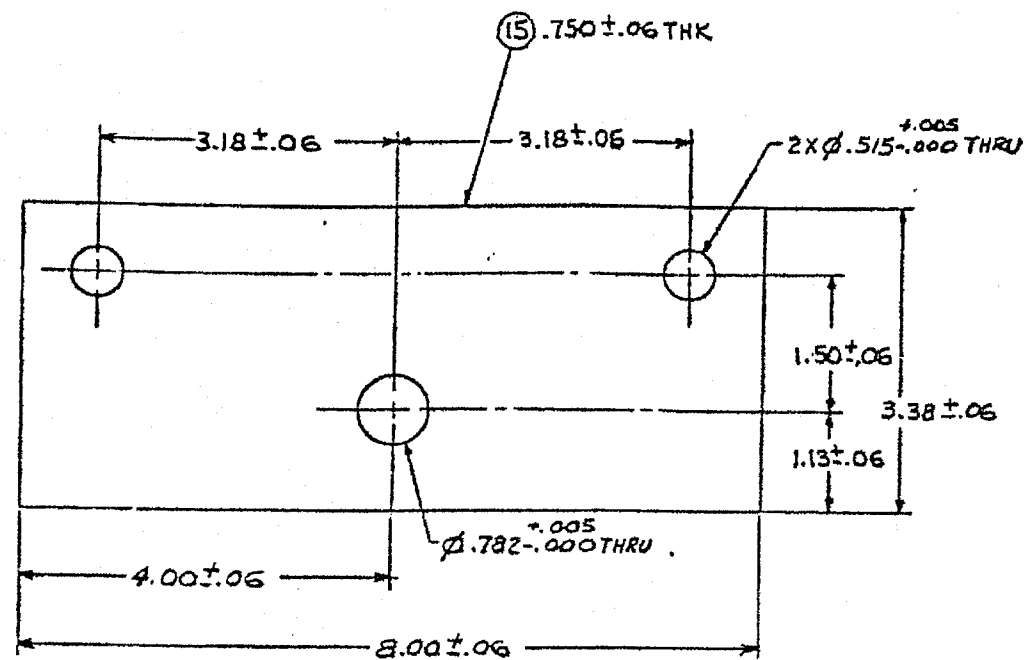
**SPENT FUEL POOL COOLING & CLEAN-UP SYSTEM
DETAIL**

PID- 1-SF-B20484

REF. DRAWING NO.	REV	TITLE
9763-F-885817	12	SPENT FUEL POOL COOLING & CLEAN UP SYS P&ID
9763-F-884988	5	REFUEL CAV CLEAN-UP P & ID

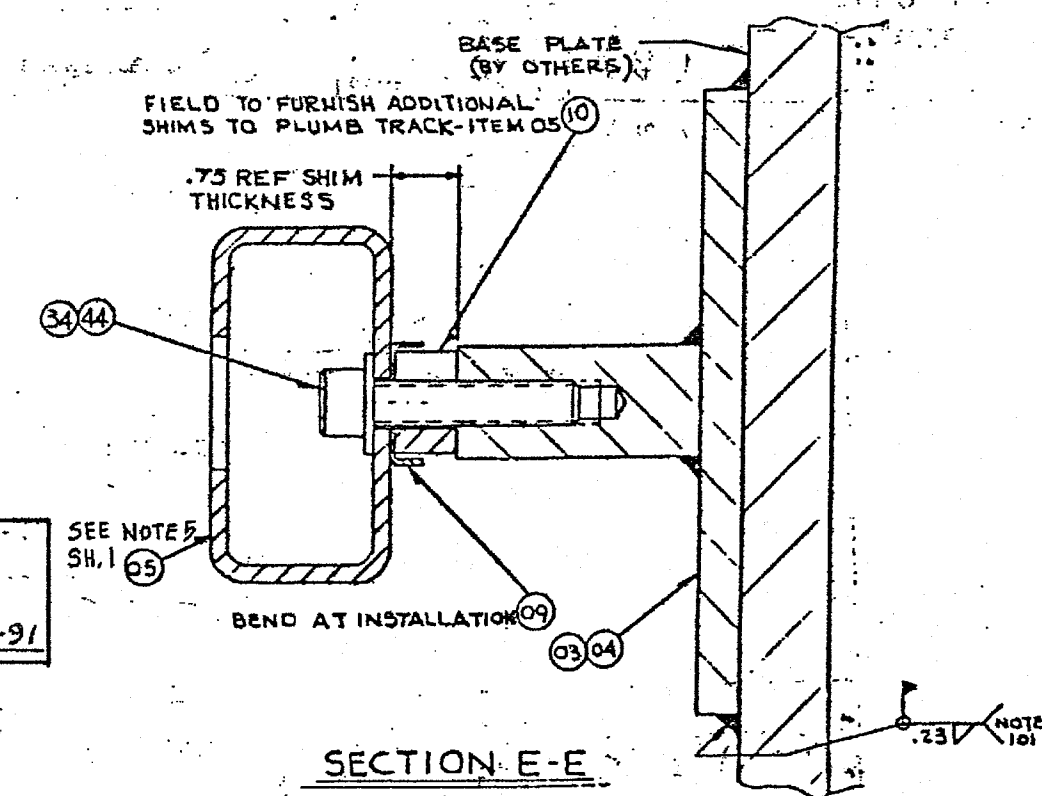
10/25/00





PO. NSS-1875 - ☒ PROCEED AS PER P.O. OR CONTRACT
☐ SUBMIT REVISED DRAWINGS FOR REVIEW
☐ SEND CORRECTED DRAWINGS FOR RECORD
 FOREIGN PRINT NO. 55944-09 DATE 7-16-91

THIS DRAWING IS PART OF
VENDOR MANUAL FP56727



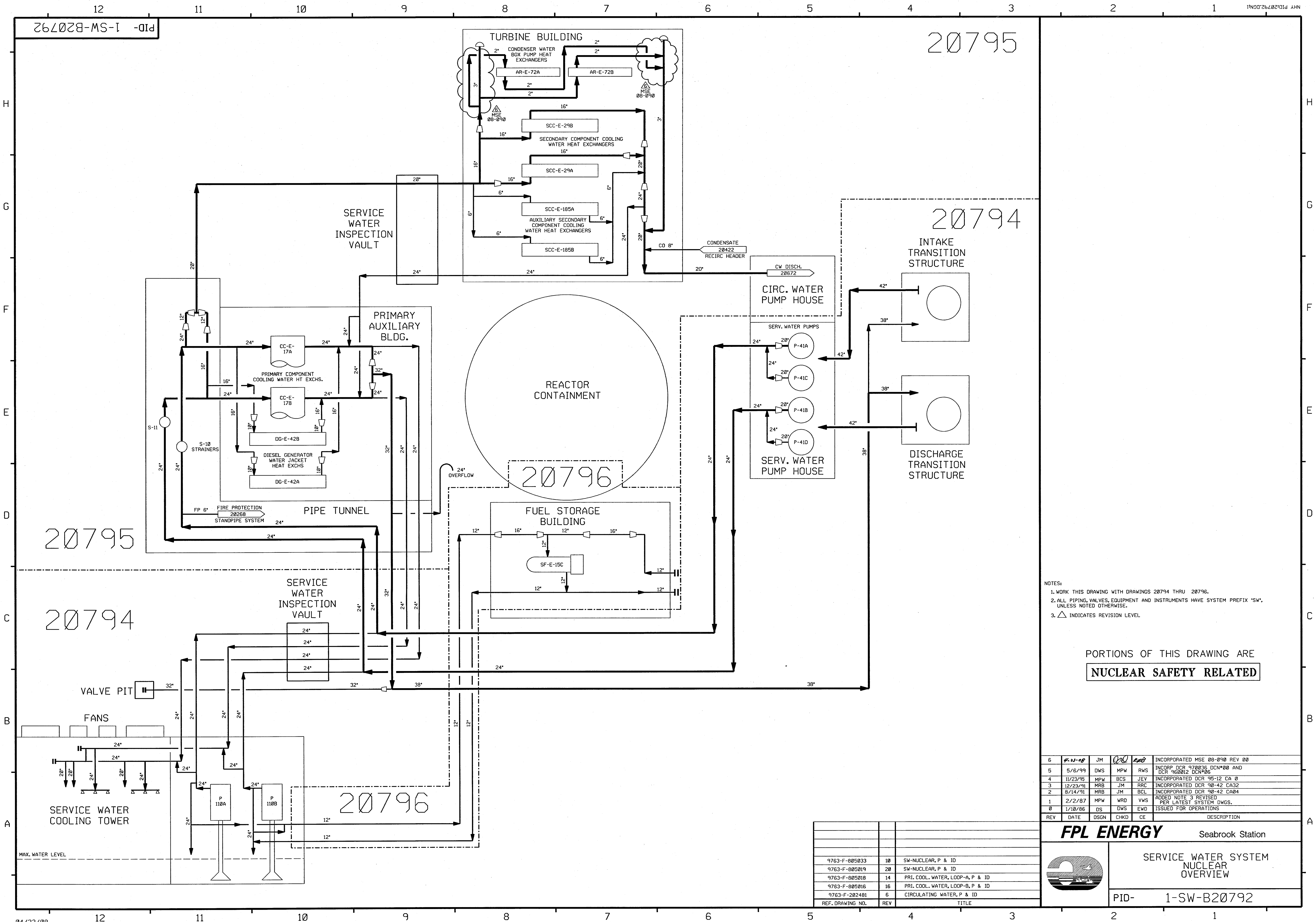
SECTION E-E
SCALE 1:1
TYP 6 PLACES

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
 PLANTS: SEABOARD STATION
 UNITS: 1 & 2 SPIN: PHSTFE
 STATUS: APPROVED FIELD MODIFICATION
 CERTIFICATION LTR. NO. NAH-U-3535
 AUTHORITY: D. R. GREGG
 ENGR. LTR. NO. EP/SA-50803

WESTINGHOUSE PROPRIETARY DATA
 THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF THE WESTINGHOUSE ELECTRIC CORPORATION WATER REACTOR DIVISION. IT IS TRANSMITTED TO YOU IN CONFIDENCE AND TRUST, AND IS TO BE RETURNED UPON REQUEST. ITS CONTENTS MAY NOT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OR USED FOR OTHER THAN THE PURPOSE FOR WHICH TRANSMITTED WITHOUT THE PRIOR WRITTEN PERMISSION OF THE WESTINGHOUSE WATER REACTOR DIVISION.
 E 1685E22 6

UEBC REVISION STATUS			
ISSUE NO.	DATE	DESCRIPTION	DOWN/ECA/DCN REVIEW/DCR REVIEW
7	10/16/89	ADDED NOTE 5 (SH.1) & REFERENCE 802627A & 802627B	BY ELEC I&C POWER NHY
		ECA 99/112751B	

1	NAH-181	706587	1
2	SCMH-184	ECN-27816	2
3	CHANGE OCCUR-10	ON SHEET 1	3
4	WILLIAMS 3-1-85	11/11/85	4
5	WILLIAMS 3-1-85	11/11/85	5
6	WILLIAMS 3-1-85	11/11/85	6
7	WILLIAMS 3-1-85	11/11/85	7
8	WILLIAMS 3-1-85	11/11/85	8
9	WILLIAMS 3-1-85	11/11/85	9
10	WILLIAMS 3-1-85	11/11/85	10
11	WILLIAMS 3-1-85	11/11/85	11
12	WILLIAMS 3-1-85	11/11/85	12
13	WILLIAMS 3-1-85	11/11/85	13
14	WILLIAMS 3-1-85	11/11/85	14
15	WILLIAMS 3-1-85	11/11/85	15
16	WILLIAMS 3-1-85	11/11/85	16
17	WILLIAMS 3-1-85	11/11/85	17
18	WILLIAMS 3-1-85	11/11/85	18
19	WILLIAMS 3-1-85	11/11/85	19
20	WILLIAMS 3-1-85	11/11/85	20
21	WILLIAMS 3-1-85	11/11/85	21
22	WILLIAMS 3-1-85	11/11/85	22
23	WILLIAMS 3-1-85	11/11/85	23
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27	WILLIAMS 3-1-85	11/11/85	27
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33	WILLIAMS 3-1-85	11/11/85	33
34	WILLIAMS 3-1-85	11/11/85	34
35	WILLIAMS 3-1-85	11/11/85	35
36	WILLIAMS 3-1-85	11/11/85	36
37	WILLIAMS 3-1-85	11/11/85	37
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41	WILLIAMS 3-1-85	11/11/85	41
42	WILLIAMS 3-1-85	11/11/85	42
43	WILLIAMS 3-1-85	11/11/85	43
44	WILLIAMS 3-1-85	11/11/85	44
45	WILLIAMS 3-1-85	11/11/85	45
46	WILLIAMS 3-1-85	11/11/85	46
47	WILLIAMS 3-1-85	11/11/85	47
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49	WILLIAMS 3-1-85	11/11/85	49
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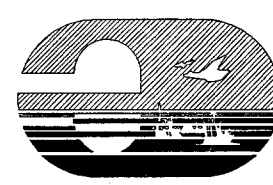


NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20794 THRU 20796.
2. ALL PIPING, VALVES, EQUIPMENT AND INSTRUMENTS HAVE SYSTEM PREFIX "SW", UNLESS NOTED OTHERWISE.
3. Δ INDICATES REVISION LEVEL

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

6	4/23/08	JM	QD	END	INCORPORATED MSE 08-090 REV 00
5	5/6/99	DWS	MPW	RWS	INCORP DCR 970036 DCN#00 AND DCR 960012 DCN#06
4	11/23/95	MPW	BCS	JEV	INCORPORATED DCR 95-12 CA 0
3	12/23/91	MRB	JM	RRC	INCORPORATED DCR 90-42 CA32
2	8/14/91	MRB	JM	BCL	INCORPORATED DCR 90-42 CA04
1	2/2/87	MPW	WRD	VWS	ADD NOTE 3 REVISED PER LATEST SYSTEM DWGS.
0	1/10/86	DS	DWS	EWD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station

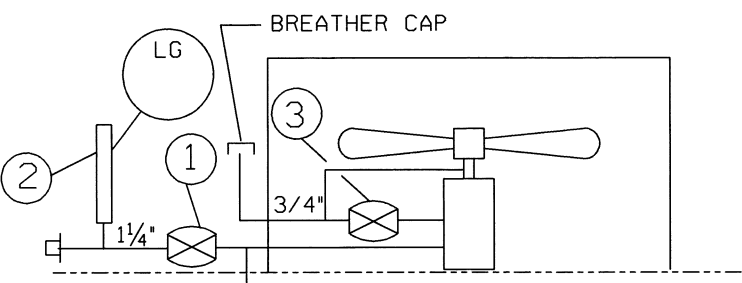


SERVICE WATER SYSTEM
NUCLEAR
OVERVIEW

PID- 1-SW-B20792

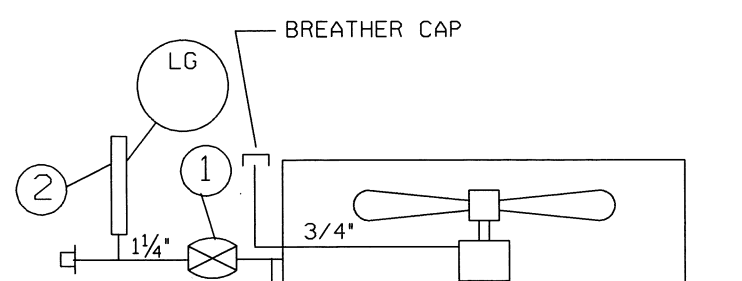
9763-F-805033	10	SW-NUCLEAR, P & ID
9763-F-805019	20	SW-NUCLEAR, P & ID
9763-F-805018	14	PRI. COOL. WATER, LOOP-A, P & ID
9763-F-805016	16	PRI. COOL. WATER, LOOP-B, P & ID
9763-F-202481	6	CIRCULATING WATER, P & ID
REF. DRAWING NO.	REV	TITLE

PID- 1-SW-B20794



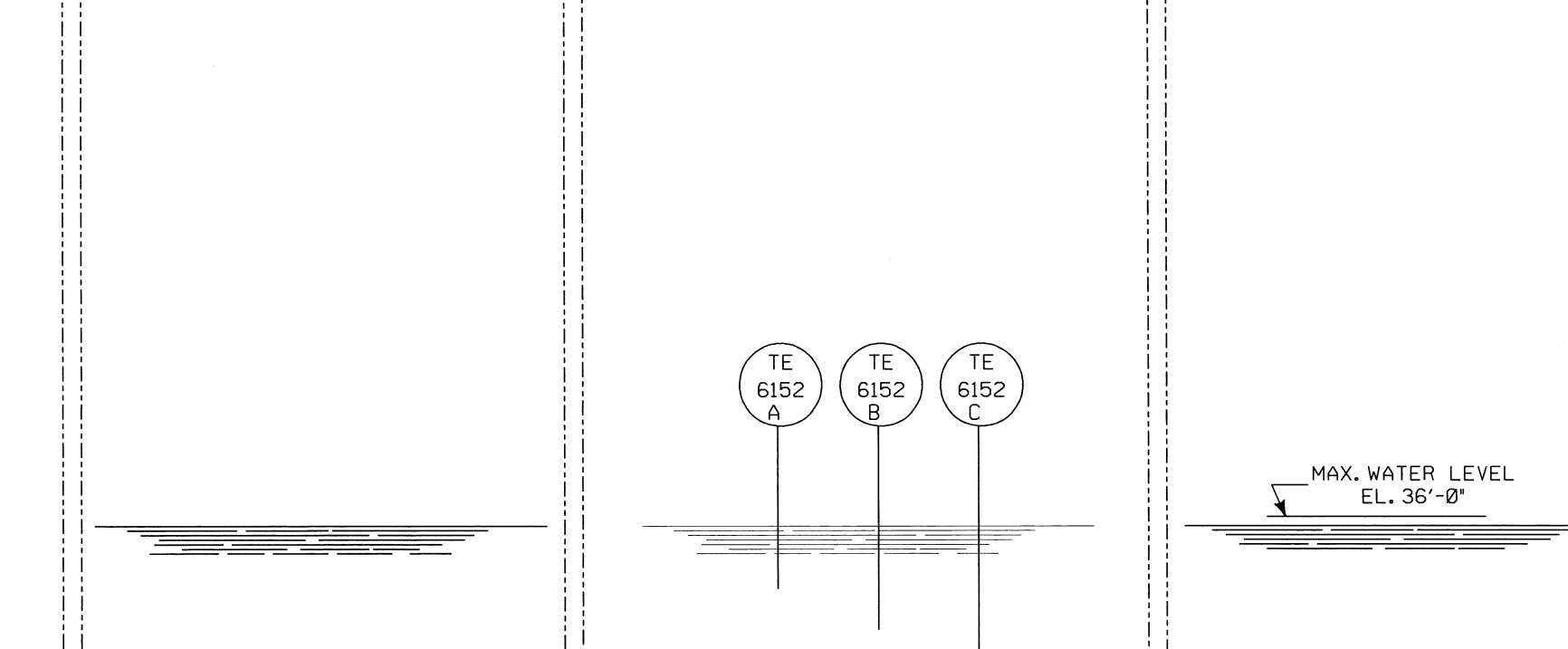
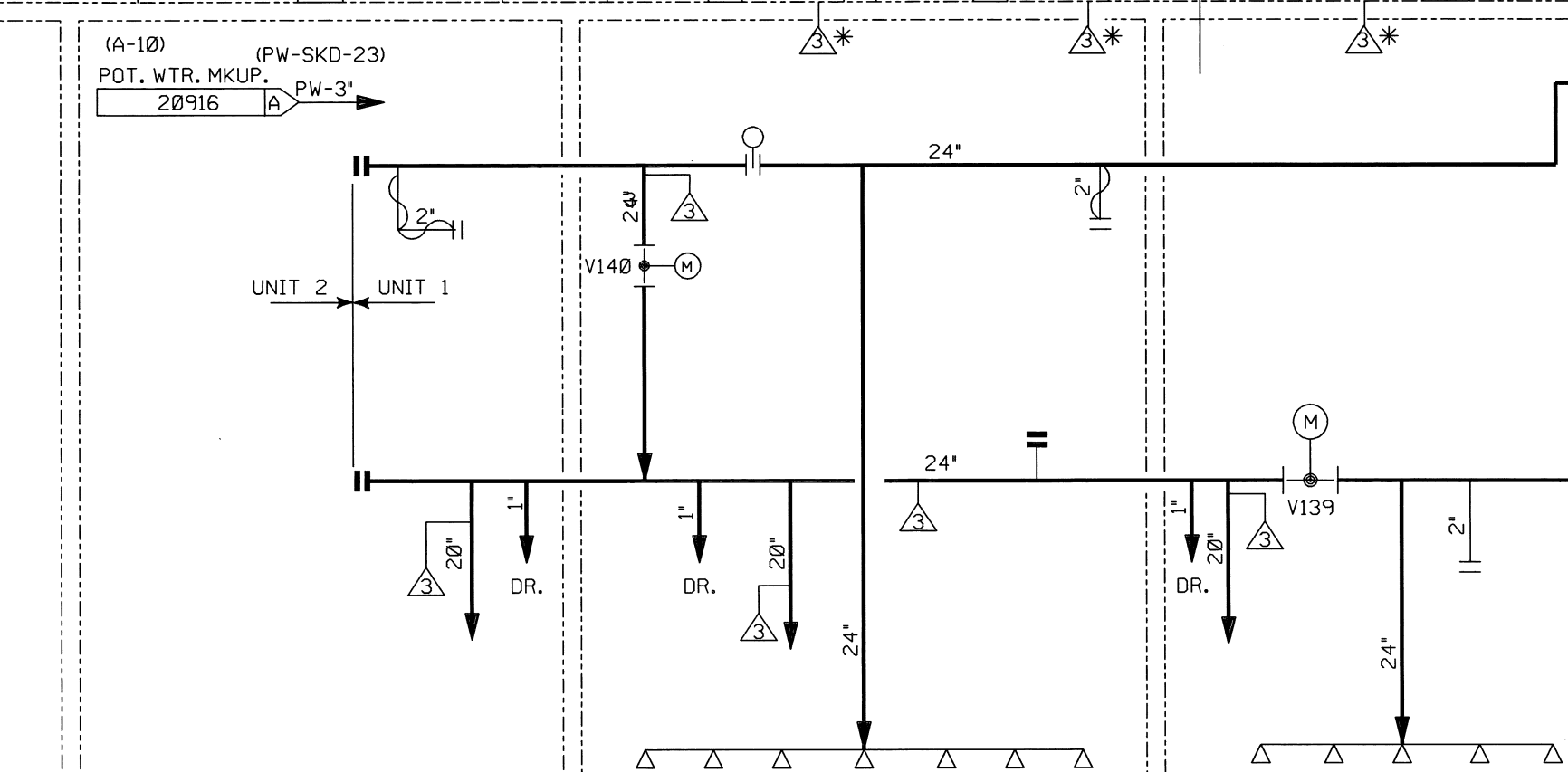
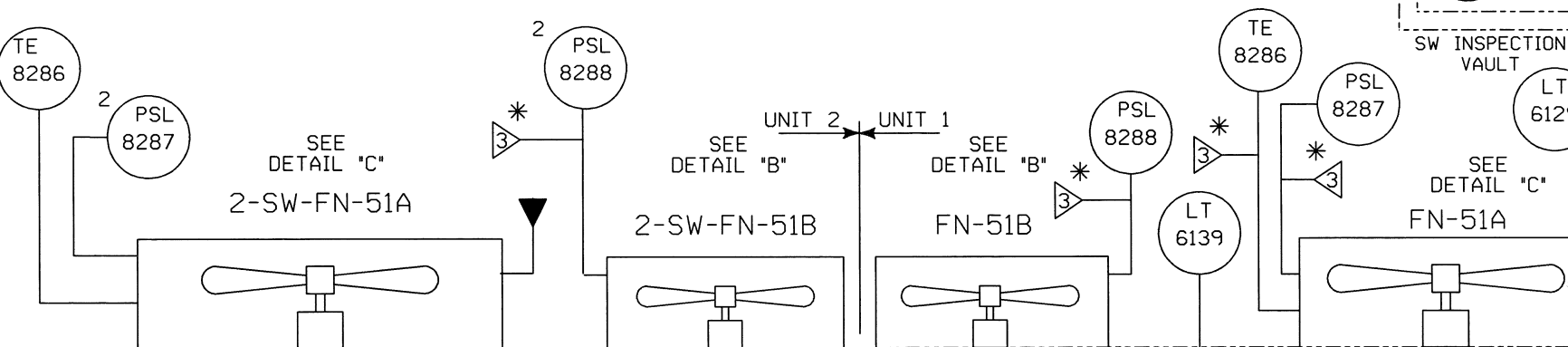
EQUIP. NO	VALVE. NO	INSTR. NO	VALVE. NO
1-SW-FN-51B	1-SW-V231	1-SW-LG-6116B	1-SW-V232
2-SW-FN-51B	2-SW-V231	2-SW-LG-6116B	2-SW-V232

DETAIL "B"

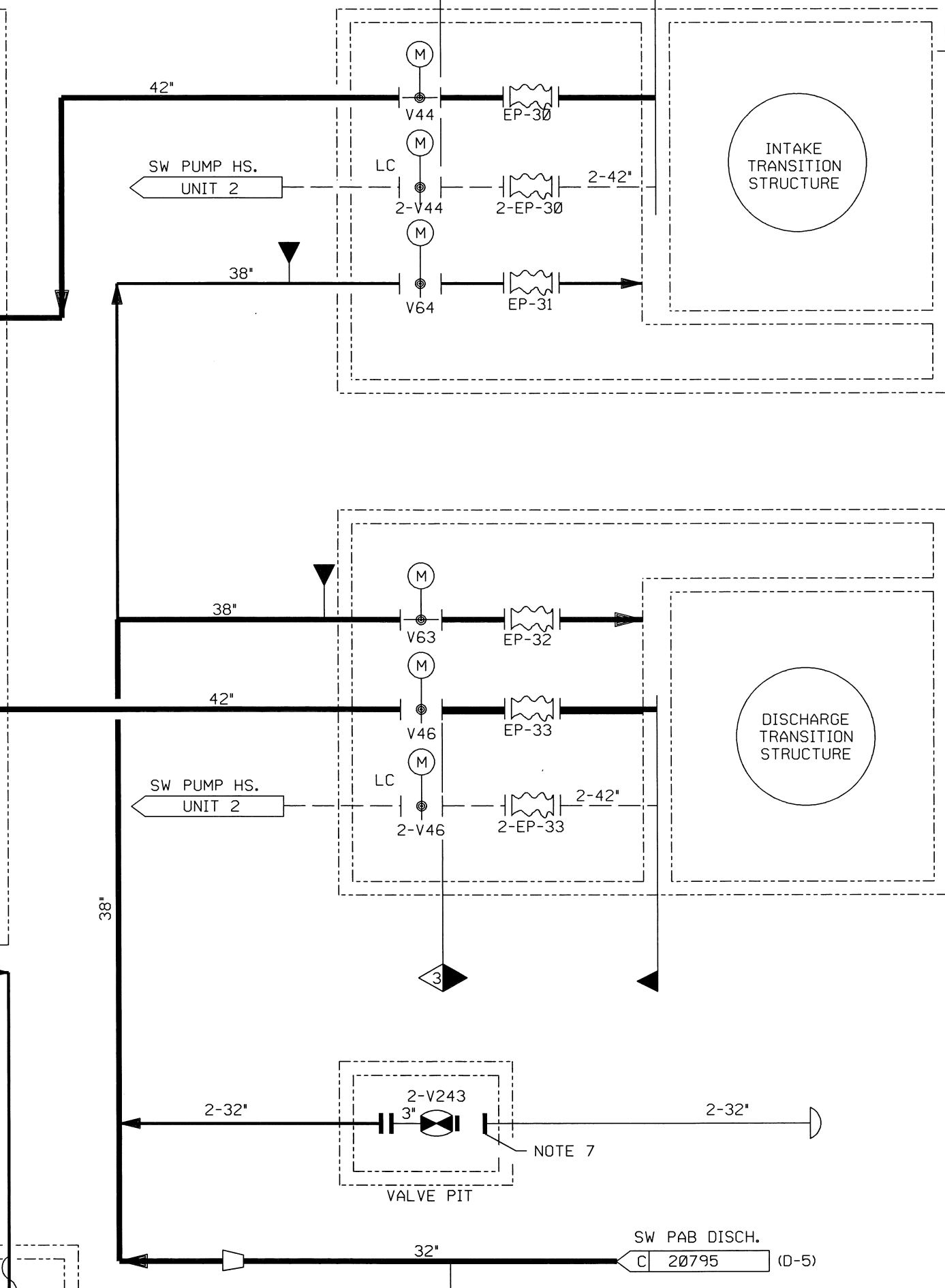
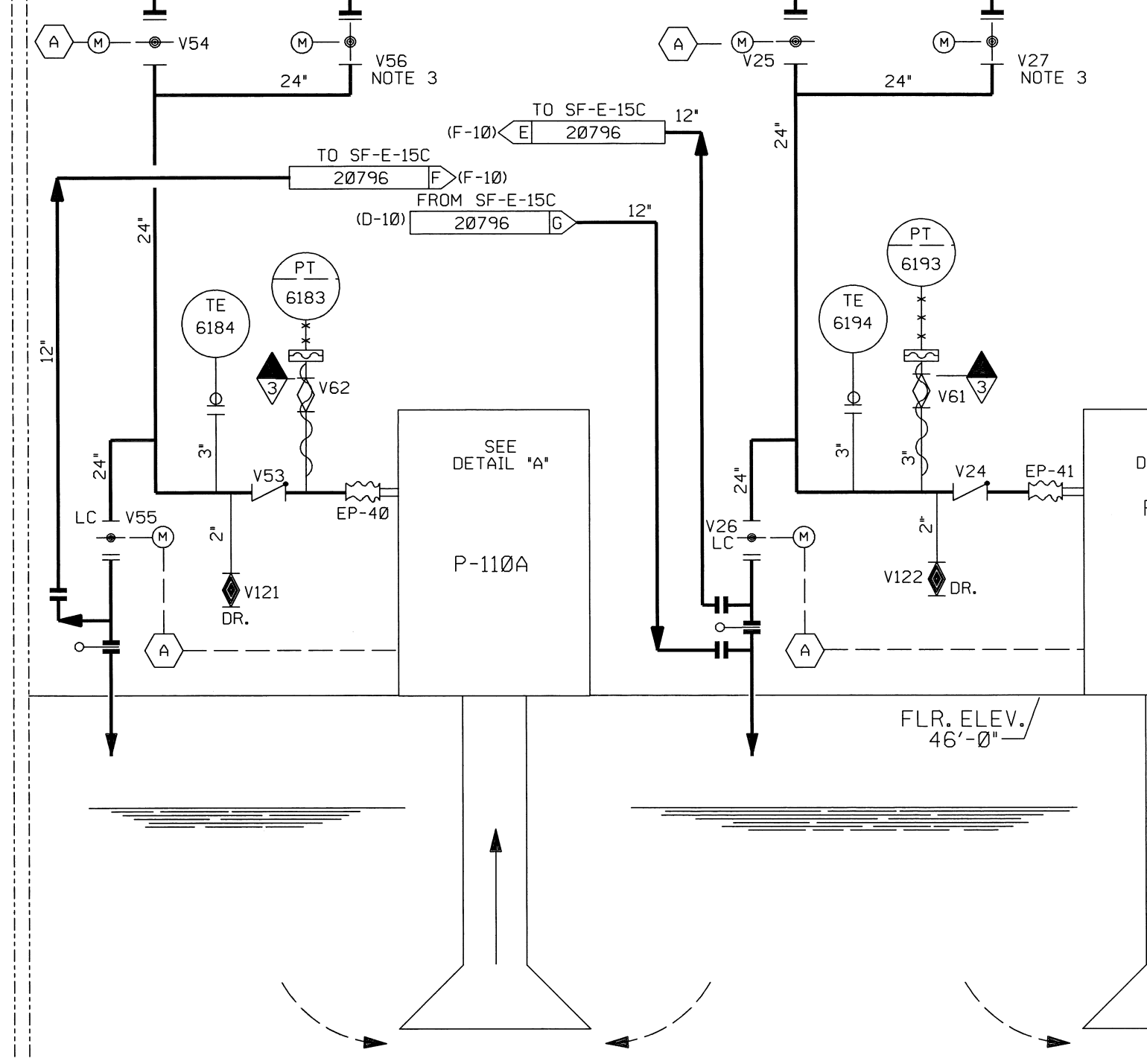
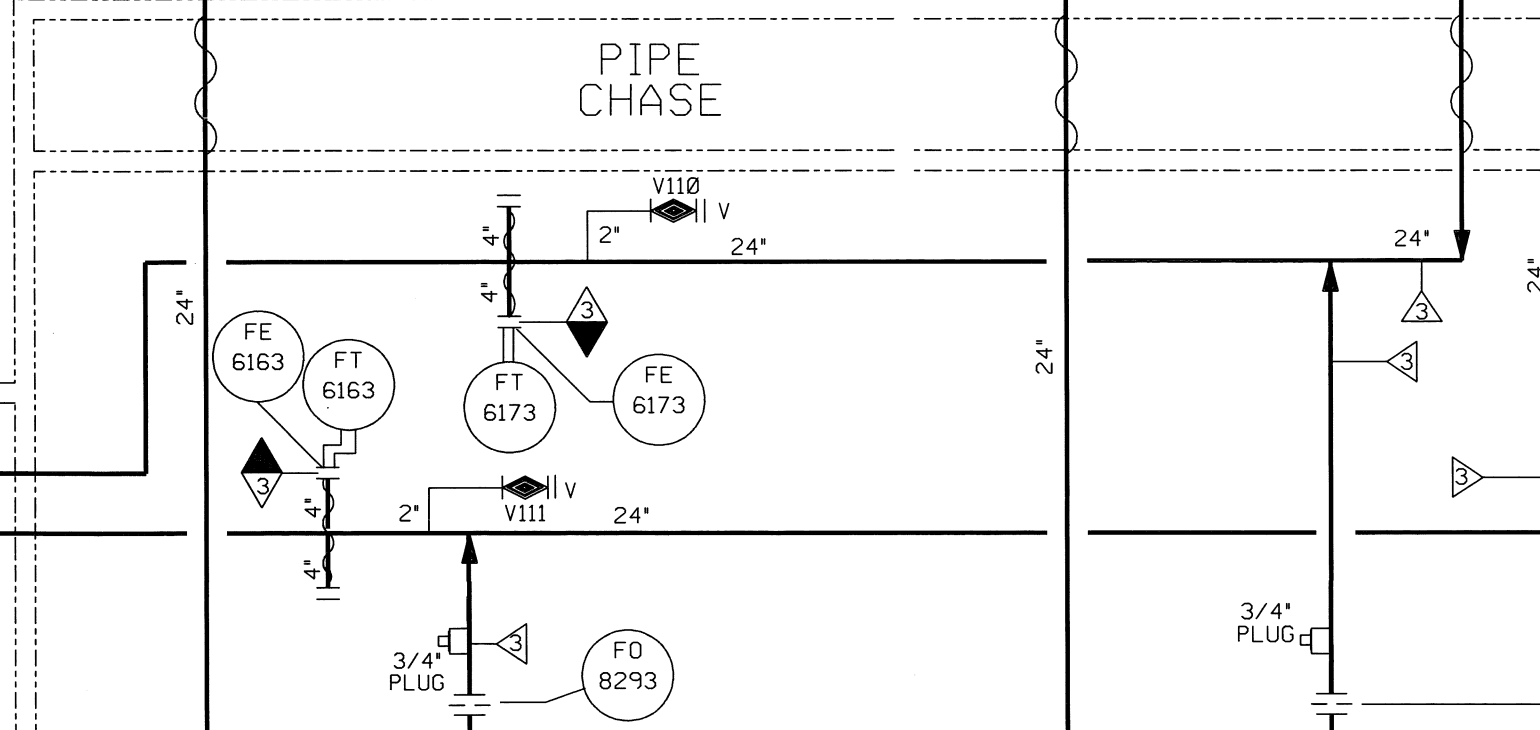
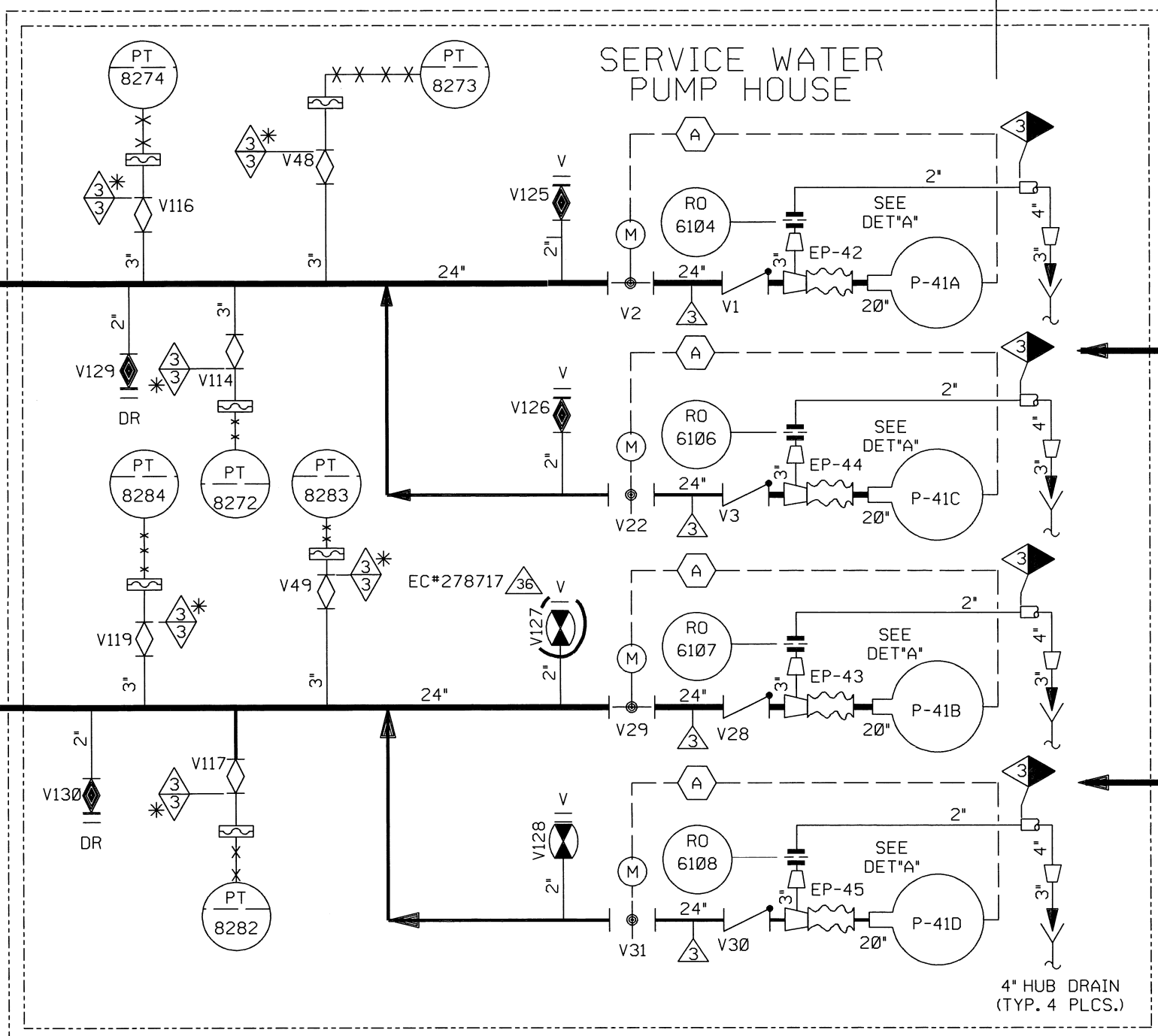


EQUIP. NO	VALVE. NO	INSTR. NO
1-SW-FN-51A	1-SW-V230	1-SW-LG-6116A
2-SW-FN-51A	2-SW-V230	2-SW-LG-6116A

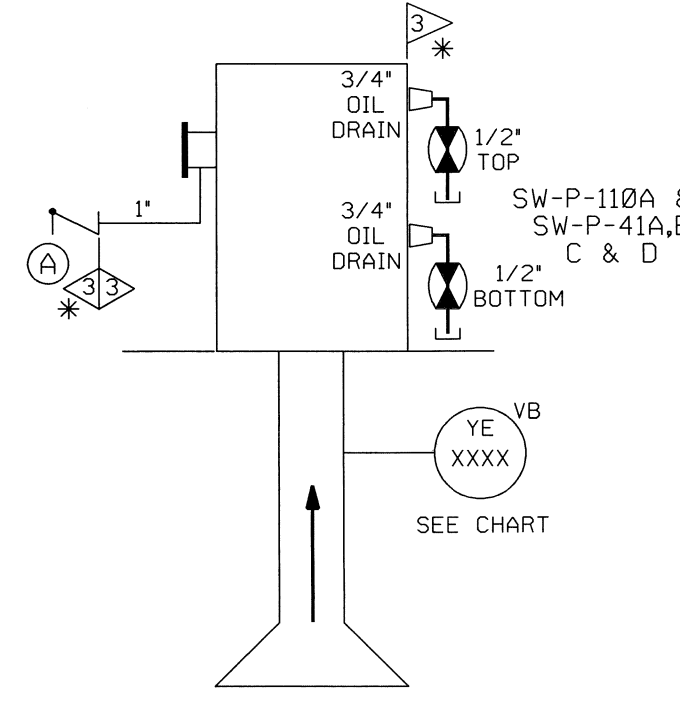
DETAIL "C"



SERVICE WATER COOLING TOWER



PUMP NO.	TOP DRAIN	BOTTOM DRAIN	VIBRATION MONITOR INSTRUMENT TAG #	A
P-41A	V523	V524	21350 21356 21362 21368	
P-41B	V525	V526	21351 21357 21363 21369	
P-41C	V527	V528	21352 21358 21364 21370	
P-41D	V529	V530	21353 21359 21365 21371	
P-110A	V542	V520	21354 21360 21366 21372 V179	
P-110B	V521	V522	21355 21361 21367 21373 V180	



DETAIL "A"

REF. DRAWING NO.	REV	TITLE
9763-F-805033	10	SW-NUCLEAR, P&ID.
9763-F-805019	20	SW-NUCLEAR, P&ID.

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 20792 THRU 20796.
 2. ALL PIPING, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX "SW", AND 1, FOR UNIT-1, UNLESS NOTED OTHERWISE.
 3. VALVES 1-SW-V27 AND V56 ARE PRESET, THESE ARE THE ONLY VALVES TO BE USED FOR FLOW BALANCING WHEN REQUIRED.
 4. DELETED
 5. INDICATES REVISION LEVEL
 6. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
 7. PLATE WELDED TO PIPE TO MAINTAIN CLEANLINESS AND FOREIGN MATERIAL EXCLUSION.
 8. INSTRUMENTATION REFERENCES:
 TA LOGIC
 10. DELETED.
 11. DELETED.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

36	4/2/14	JM	BS	DEA	INCCORP. EC*278717
35	4/24/11	GPS	JM	DEA	INCCORP. EC*249508
34	07/15/10	JM	BCS	DJM	INCCORP. EC*156600
33	4/13/08	BCS	JM	RRB	INCCORP. MSE 07-095 REV. 00, 01 & MMOD 03-504 DCN-00
32	3/23/07	BCS	JM	RRB	INCCORP. CR 06-14856 REV. 0
31	6/26/06	JM	BCS	DEA	INCCORP. MSE 06-088 REV 00 & REVISED FOR CLARITY
30	6/18/03	BCS	MPW	RRB	INCCORP. DCR 990028 DCN*21
29	12/19/02	BCS	JM	RSO	INCCORP. MSE 02-270 REV. 00
28	7/27/01	MPW	BCS	RRB	INCCORP. DCR 990028 DCN*01 & 08
27	4/26/01	MPW	BCS	RRB	PARTIAL INCCORP. DCR 990028 DCN*01
26	3/30/01	MPW	BCS	RRB	PARTIAL INCCORP. DCR 990028 DCN*01
25	3/02/01	BCS	MPW	RRB	PARTIAL INCCORP. DCR 990028 DCN*01,08
24	1/12/01	DWS	MPW	RRB	PARTIAL INCCORP. DCR 990028 DCN*01,08
23	12/12/00	BCS	MPW	RRB	PARTIAL INCCORP. DCR 99-28 DCN*01
22	11/11/00	MPW	DWS	RRB	INCCORP. DCR 99-31 DCN*00
21	2/25/00	BCS	DWS	MAP	INCCORP. DCR 980010 DCN*00
20	7/12/99	DWS	MPW	MAP	PARTIAL INCCORP. DCR 980010 DCN*00
19	3/30/99	BCS	DWS	HWM	INCCORP. DCR 89-61 CA 00
18	6/08/98	DRL	BCS	VWS	INCCORP. MMOD 97-521 DCN 00
17	6/18/97	DWS	MPW	JEV	INCCORP. DCR 960012 CA*0
16	11/27/95	BCS	MPW	JEV	INCCORP. DCR 95-12 CA-B, 4
15	8/11/95	BCL	DWS	GRW	INCCORP. MMOD 92-542 CA-B, 0
14	4/12/95	BCL	DWS	DJM	INCCORP. MMOD 94-578 CA0
13	7/12/94	BCL	MPW	JEV	INCCORP. MMOD 93-502 CA01
12	4/14/94	BCL	MPW	DMQ	INCCORP. MMOD 93-517 CA0 & DELETE FLANGES PER DWG 805033
11	8/6/92	BCL	MRB	JEV	REINCCORP. MMOD 91-515 CA0
10	4/28/92	MRB	JEV	JEV	INCCORP. MMOD 91-515 CA0
9	12/23/91	MRB	MRB	RRR	INCCORP. DCR 90-42, CA32
8	9/11/91	MRB	FCB	JEV	INCORPORATED; DCR 89-81 CA0 ADDED; NOTE 8
7	8/14/91	MRB	JM	BCL	INCCORP. DCR 90-042 CA31 & MMOD 91-511 CA0
0	1/10/86	DS	DWS	RRR	ISSUED FOR OPERATIONS

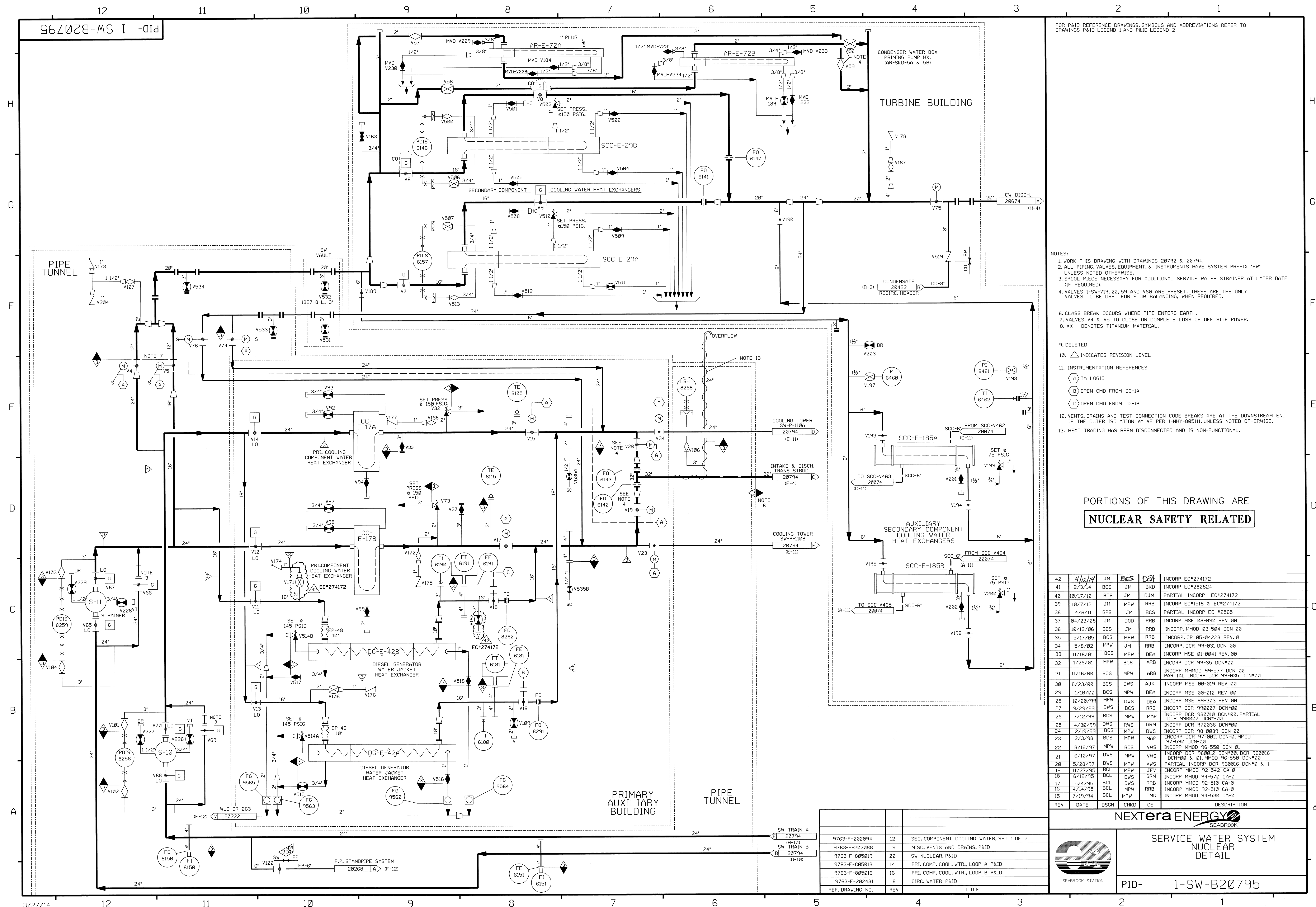
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
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NEXTERA ENERGY
SEABROOK



SERVICE WATER SYSTEM
NUCLEAR
DETAIL

PID- 1-SW-B20794



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 20792 & 20794.
2. ALL PIPING, VALVES, EQUIPMENT, & INSTRUMENTS HAVE SYSTEM PREFIX "SW" UNLESS NOTED OTHERWISE.
3. SPOOL PIECE NECESSARY FOR ADDITIONAL SERVICE WATER STRAINER AT LATER DATE (IF REQUIRED).
4. VALVES 1-SW/V19, 28, 59 AND V50 ARE PRESET. THESE ARE THE ONLY VALVES TO BE USED FOR FLOW BALANCING, WHEN REQUIRED.
- 5.
6. CLASS BREAK OCCURS WHERE PIPE ENTERS EARTH.
7. VALVES V4 & V5 TO CLOSE ON COMPLETE LOSS OF OFF SITE POWER.
8. XX - DENOTES TITANIUM MATERIAL.

9. DELETED
10. \triangle INDICATES REVISION LEVEL
11. INSTRUMENTATION REFERENCES
- $\triangle A$ TA LOGIC
- $\triangle B$ OPEN CMD FROM DG-1A
- $\triangle C$ OPEN CMD FROM DG-1B


12. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
13. HEAT TRACING HAS BEEN DISCONNECTED AND IS NON-FUNCTIONAL.

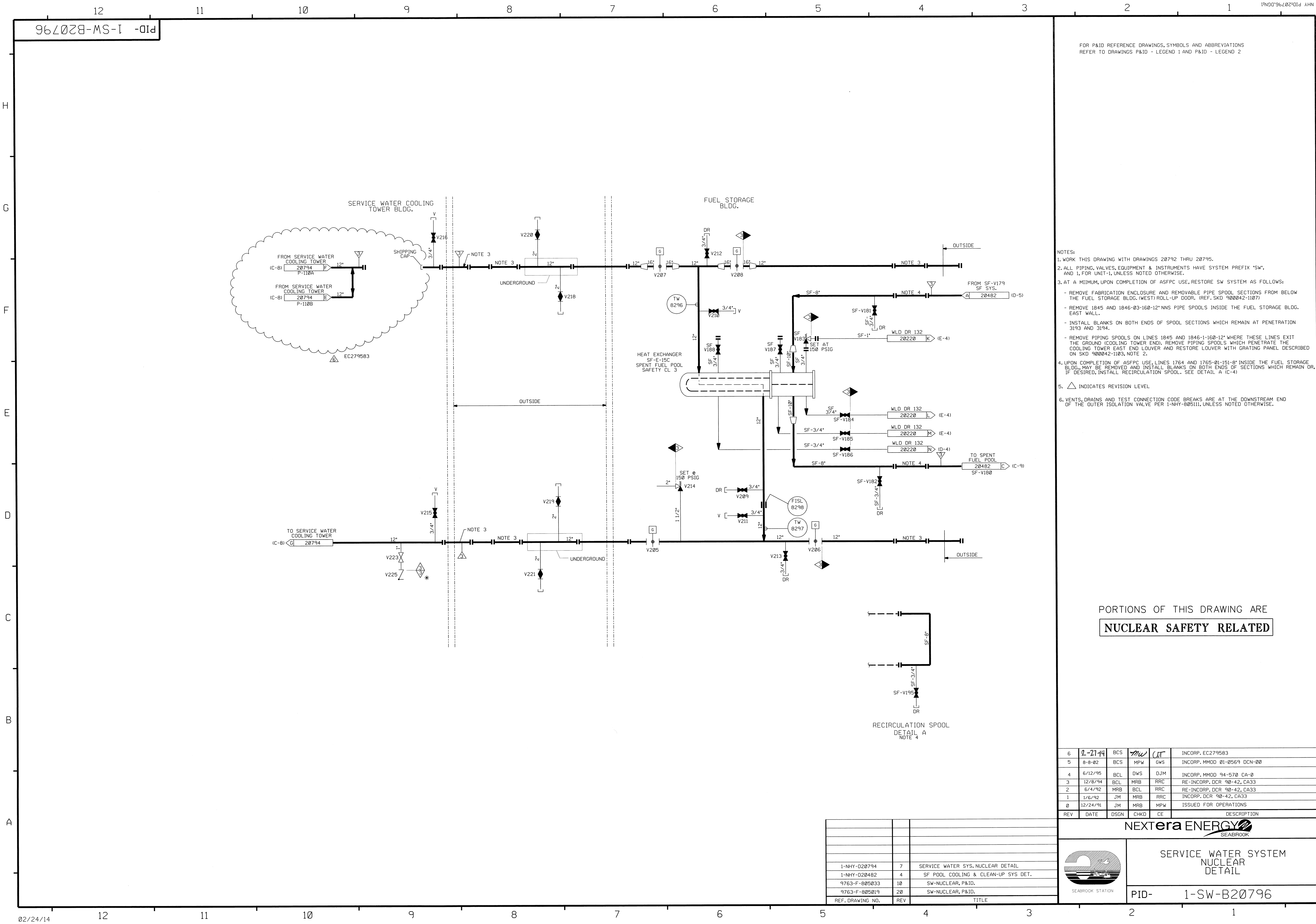
PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED

42	4/12/14	JM	BCS	DEA	INCOMP EC*274172
41	2/3/14	BCS	JM	BKD	INCOMP EC*280824
40	10/17/12	BCS	JM	DJM	PARTIAL INCOMP EC*274172
39	10/17/12	JM	MPW	RRB	INCOMP EC*1518 & EC*274172
38	4/6/11	GPS	JM	BCS	PARTIAL INCOMP EC *2565
37	04/23/08	JM	DDO	RRB	INCOMP MSE 08-090 REV 00
36	10/12/06	BCS	JM	RRB	INCOMP, MMOD 03-584 DCN-00
35	5/17/05	BCS	MPW	RRB	INCOMP, CR 05-04228 REV. 0
34	5/8/02	MPW	JM	RRB	INCOMP, DCR 99-031 DCN 00
33	11/6/01	BCS	MPW	DEA	INCOMP MSE 01-0041 REV. 00
32	1/26/01	MPW	BCS	ARB	INCOMP DCR 99-35 DCN#00
31	11/16/00	BCS	MPW	ARB	INCOMP MMOD 99-577 DCN 00 PARTIAL INCOMP DCR 99-035 DCN#00
30	8/23/00	BCS	DWS	AJK	INCOMP MSE 00-019 REV 00
29	1/10/00	BCS	MPW	DEA	INCOMP MSE 00-012 REV 00
28	10/20/99	MPW	DWS	DEA	INCOMP MSE 99-303 REV 00
27	9/23/99	DWS	BCS	RRB	INCOMP DCR 990007 DCN#00
26	7/12/99	BCS	MPW	MAP	INCOMP DCR 980010 DCN#00, PARTIAL DCR 990007 DCN#00
25	4/30/99	DWS	RWS	GRM	INCOMP DCR 970036 DCN#00
24	2/19/99	BCS	MPW	DWS	INCOMP DCR 98-0039 DCN-00
23	2/3/98	BCS	MPW	MAP	INCOMP DCR 97-0011 DCN-00, MMOD 97-590 DCN#00
22	8/18/97	MPW	BCS	VWS	INCOMP MMOD 96-556 DCN 01
21	6/10/97	DWS	MPW	VWS	INCOMP DCR 960212 DCN#00, DCR 960016 DCN#00 & 01, MMOD 96-550 DCN#00
20	5/28/97	DWS	MPW	VWS	PARTIAL INCOMP DCR 960016 DCN#0 & 1
19	11/10/95	BCL	MPW	JEV	INCOMP MMOD 92-540 CA-0
18	5/22/95	BCL	DWS	GRM	INCOMP MMOD 94-578 CA-0
17	5/4/95	BCL	DWS	RRB	INCOMP MMOD 92-510 CA-0
16	4/14/95	BCL	MPW	RRB	INCOMP MMOD 92-510 CA-0
15	7/19/94	BCL	MPW	DMQ	INCOMP MMOD 94-530 CA-0
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



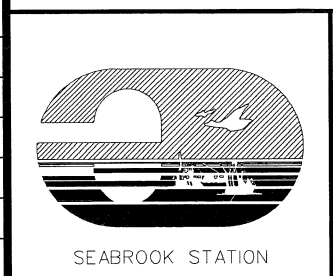
 SEABROOK STATION		
	PID-	1-SW-B20795



- 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 20792 THRU 20795.
 2. ALL PIPING, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX 'SW'.
AND 1, FOR UNIT-1, UNLESS NOTED OTHERWISE.
 3. AT A MINIMUM, UPON COMPLETION OF ASFC USE, RESTORE SW SYSTEM AS FOLLOWS:
 - REMOVE FABRICATION ENCLOSURE AND REMOVABLE PIPE SPOOL SECTIONS FROM BELOW THE FUEL STORAGE BLDG. (WEST) ROLL-UP DOOR. (REF. SKD 900042-1107)
 - REMOVE 1845 AND 1846-03-160-12" NNS PIPE SPOOLS INSIDE THE FUEL STORAGE BLDG. EAST WALL.
 - INSTALL BLANKS ON BOTH ENDS OF SPOOL SECTIONS WHICH REMAIN AT PENETRATION 3193 AND 3194.
 - REMOVE PIPING SPOOLS ON LINES 1845 AND 1846-1-160-12" WHERE THESE LINES EXIT THE GROUND (COOLING TOWER END). REMOVE PIPING SPOOLS WHICH PENETRATE THE COOLING TOWER EAST END LOUVER AND RESTORE LOUVER WITH GRATING PANEL DESCRIBED ON SKD 900042-1105, NOTE 2.
 4. UPON COMPLETION OF ASFC USE, LINES 1764 AND 1765-01-151-8" INSIDE THE FUEL STORAGE BLDG., MAY BE REMOVED AND INSTALL BLANKS ON BOTH ENDS OF SECTIONS WHICH REMAIN OR, IF DESIRED, INSTALL RECIRCULATION SPOOL. SEE DETAIL A (C-4)
 5. INDICATES REVISION LEVEL
 6. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

6	2-21-14	BCS			INCCORP. EC279583
5	8-8-02	BCS	MPW	OWS	INCCORP. MMDD 01-0569 DCN-00
4	6/12/95	BCL	DWS	DJM	INCCORP. MMDD 94-570 CA-0
3	12/8/94	BCL	MRB	RRC	RE-INCCORP. DCR 90-42, CA33
2	6/4/92	MRB	BCL	RRC	RE-INCCORP. DCR 90-42, CA33
1	1/6/92	JM	MRB	RRC	INCCORP. DCR 90-42, CA33
0	12/24/91	JM	MRB	MPW	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

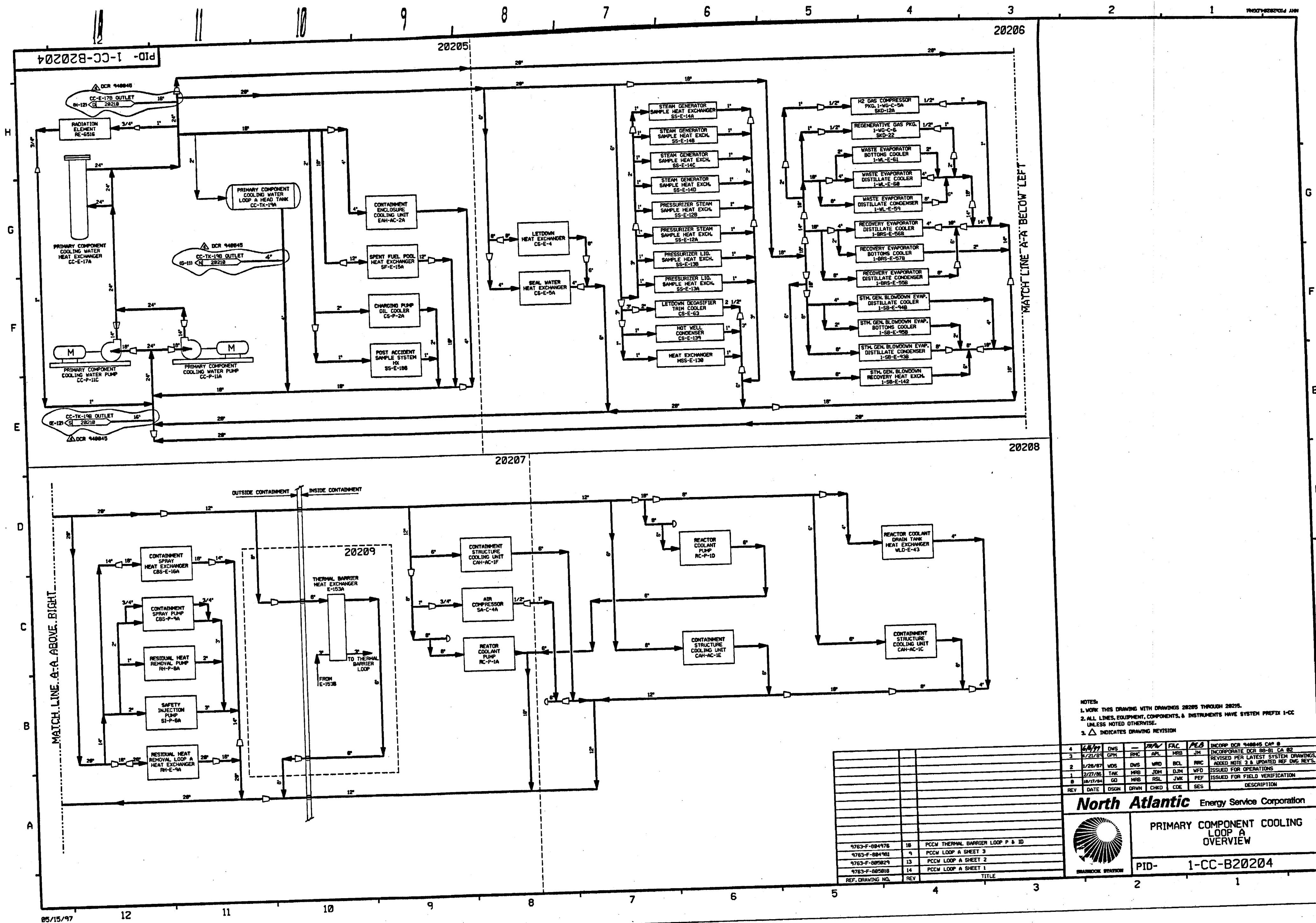


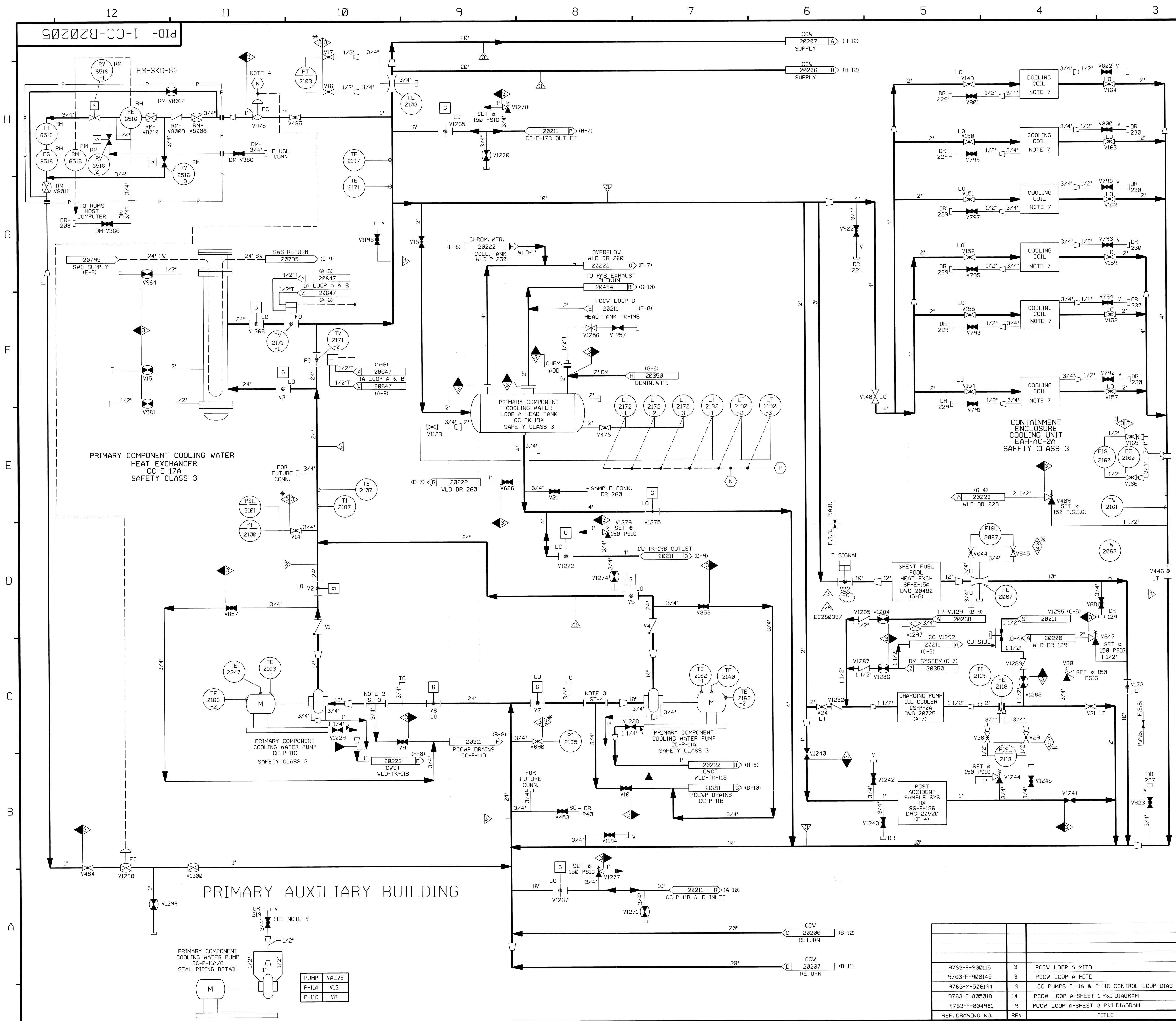
NEXTERA ENERGY
SEABROOK

SERVICE WATER SYSTEM
NUCLEAR
DETAIL

PID- 1-SW-B20796

1-NHY-D20794	7	SERVICE WATER SYS. NUCLEAR DETAIL
1-NHY-D20482	4	SF POOL COOLING & CLEAN-UP SYS DET.
9763-F-805033	10	SW-NUCLEAR, P&ID.
9763-F-805019	20	SW-NUCLEAR, P&ID.
REF. DRAWING NO.	REV	TITLE






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

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS B20204 AND B20206 THROUGH B20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX '1-CC', UNLESS NOTED OTHERWISE.
 3. PERMANENT SPOOL PIECE INSTALLATION SHOWN. TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION. STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 4. (N) CLOSE ON HEAD TANK TK-19A LOW LEVEL SIGNAL. SIGNAL TO V426 & V427 ON DWG CC-20206, AND V975 & V1298 ON THIS DWG.
 5. (P) SIGNAL TO V122, V168, V121 & V57 ON DWG. CC-20207
 6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS OTHERWISE NOTED.
 7. CONTAINMENT ENCLOSURE AIR HANDLING FOR AC-2A SEE DWG 1-MAH-20495 (D-6).
 8. CONNECTION TO BE USED FOR FLUSHING SEE DWG DM-20350 (F-9) & NOTE 7.
 9. QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

26	12/10/93	BCS	JM	INCORP. EC280337
25	10/9/88	JM	BCS	INCORP. MM00 83-504 DCN 00
24	3/25/83	MPW	JM	INCORP. CR 02-13396
23	6/11/82	BCS	JM	MAP INCORP. DCR 00-020 DCN-00
22	1/18/99	BCS	MPW	REINCORP. DCR 960025 DCN 02
21	1/6/99	DWS	MPW	REINCORP. DCR 940045 CA#00
20	11/4/98	MPW	BCS	MAP INCORP. DCR 960025 DCN 02
19	5/26/98	MPW	BCS	MAP INCORP. DCR 960025 DCN 02
18	5/7/98	MPW	MRB	REINCORP. DCR 960025 DCN 00
17	6/13/97	DWS	MPW	REINCORP. DCR 940045 CA#0 & 1
16	6/6/97	DWS	MPW	REINCORP. DCR 940045 CA#0 & 1, DCR 920015 DCN#0, DCR 960016 DCN#0, 1 & 2, DCR 960025 DCN#00 & 01 ALSO RELOCATED INSTRUMENT REFERENCE NOTES 'N' & 'P' FROM THE PAID BODY TO NOTE 4.
15	11/27/95	MPW	BCS	PARTIAL INCORP. MM00 920590 CA#0
14	3/7/95	BCL	MPW	INCORP. MM00 920590 CA#0
13	11/29/94	DWS	MPW	INCORP. MM00 930545 CA#0
12	4/14/94	BCL	MPW	INCORP. MM00 93-517 CA0
11	4/28/92	MRB	DWS	JEV INCORP. MM00 91-515 CA0
10	12/16/91	FCB	RMC	BCL INCORP. MM00 91-511 CA01
9	11/12/91	RMC	JM	JEV INCORP. MM00 91-511 CA 00 AND DCR 86-447 CA 00
8	2/26/91	MRB	FCB	BCL INCORP. MM00 90-648 CA01
7	4/21/89	GPM	APL	GRM INCORPORATE DCR 88-81 CA 02
6	3/22/88	GPM	APL	RRR REVISED NOTE 4 & 5, PIPING & INSTR. REFERENCE SIGNAL, ADDED NOTE 7 & 8, CONT. DWG. NO'S & COORD. DELETED: NWS-1 CLASS DESIGNATION.
5	6/16/87	MPW	PAL	PAG VALVE V975 SHOWN OPEN.
4	11/4/86	JDM	WRD	RRR ADDED CONT. DWG. COORD., LEGEND NOTE MISSING LINE SIZE, ADDED OPERATOR TO VALVES PER REF. DWG. REVIEW, REMOVED SAFETY CLASS BREAKS FROM VENTS AND DRAINS DUE TO THE USE OF NOTE 5. REMOVED PIPE SPEC. BREAKS.
3	9/12/86	BCL	MAP	RRR INCORP. ECA 19/808327C, REVISED PER PIPING ERECTION ISO'S CC-752-02 & CC-752-06
2	6/18/86	JDM	DWS	RRR INCORP. ECA 19/112526B, DELETE DUPLICATE VENT LINE, ADD REF. DWG., PROVIDE DETAIL FOR RM-SK0-82
1	02/27/86	TAK	JDM	WFO INCORP. ECA 19/3167C, 19/808327C,
0	10/17/84	GD	RSL	PEF ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE DESCRIPTION



SEABROOK STATION


PRIMARY COMPONENT COOLING
LOOP A
DETAIL

PID- 1-CC-B20205

REF. DRAWING NO.	TITLE
9763-F-900115	3 PCCW LOOP A MITD
9763-F-900145	3 PCCW LOOP A MITD
9763-M-506194	9 CC PUMPS P-11A & P-11C CONTROL LOOP DIAG
9763-F-805018	14 PCCW LOOP A-SHEET 1 P&I DIAGRAM
9763-F-804981	9 PCCW LOOP A-SHEET 3 P&I DIAGRAM



NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20204, 20205 AND 20207, THROUGH 20215.
2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX 1-CO UNLESS NOTED OTHERWISE.
3. INSTRUMENT REFERENCES
 - (B) FROM SB-PT-3B DVG. (20630)
 - (C) FROM SB-TE-7B DVG. (20630)
 - (D) FROM SB-TE-15B DVG. (20630)
 - (E) FROM BRS-PT-3B DVG. (20859)
 - (F) FROM BRS-TE-7B DVG. (20859)
 - (G) FROM BRS-TE-15B DVG. (20859)
 - (H) FROM WL-PT-3 DVG. (20830)
 - (I) FROM WL-TE-7 DVG. (20830)
 - (J) FROM WL-TE-15 DVG. (20830)
 - (K) FROM SB-TE-6852 DVG. (20627)
 - (M) FROM TE-138 LETDOWN HEAT EXCHANGER CS-E-4 OUTLET DVG. (20722)
 - (N) CLOSE ON HEAD TANK TK-19A LOW LEVEL SIGNAL
4.  INDICATES REVISION LEVEL.
5. DELTED
6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS OTHERWISE NOTED.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

16	1-25-10	BCS	JM	REC	INCORP AR 208344 & 208345
15	9/24/83	BCS	JM	RRB	INCORP DCR 02-012 DCM-00, 01
14	2/27/83	BCS	MPW	TAS	INCORP DCR 00-019 DCM-00
13	6/02/82	JM	MPW	RRB	INCORP MSE 01-0110 REV 00 AND PARTIAL OF MM00 93-544 DCM 00
12	3/27/86	MPW	BCS	RRB	INCORP MM00 93-544 CA01
11	9/28/85	BCL	MPW	RJF	INCORP MM00 93-544 CA02
10	4/2/92	MRB	BCL	JEV	INCORP MM00 91-515 CA02
9	9/24/98	MRB	JM	BCL	INCORP MM00 98-515 CA06
8	5/23/68	GPM	APL	PAG	INCORP. DCR 86-409 CA04
7	3/22/88	GPM	APL	RRC	REVISED: NOTES 3 & 6, INSTR. REFERENCE SIGMA, SKID PIPING & EQUIP. DESCRIPTION. ADDED: COT DWG NUMBERS & COORD'S. VALVE DESIGNATION. DELETED: NIS-1 CL. DESIGNATION.
6	6/16/87	MPW	PAL	VMS	ADDED VALVES V846 & V863 SHOWN OPEN. ADDED VALVES CV-7 & CV-6 PREVIOUSLY SHOWN ON CS-28724/EQUIP. REFERENCE (DWG'S DELETED: VALVE NOS (N/A 1&C VALVES)
5	1/19/87	MRJ	WRD	VMS	ADDED CC PIPING PREVIOUSLY SHOWN ON SB-28627, REVISED TO FLEX HOSE HEAT TRACING, WAS IN ERROR, DELETED NOTE 5, FILLED IN NOTE 3 LATER.
4	11/6/86	JDM	PAL	RRC	ADDED COT DWG COORD'S, LEGEND NOTE. CORRECTED VALVE TYPES PER REF DWG.
3	8/22/86	BCL	WRD	PHH	REVISED TO REFLECT AS-BUILT CONDITION
2	6/19/86	JDM	DMS	RRC	REVISED VALVE NUMBERS, DELETED SKID SUPPLY, INCORP. CA 99/113928A & REV. CHANGE ITEM NO. 1 & 2 PER 684981 REV 9
1	2/27/86	TAK	JDM	WFD	ISSUED FOR OPERATIONS AND INCORP. CA 73/554248
0	10/17/84	GD	RSL	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CF	DESCRIPTION

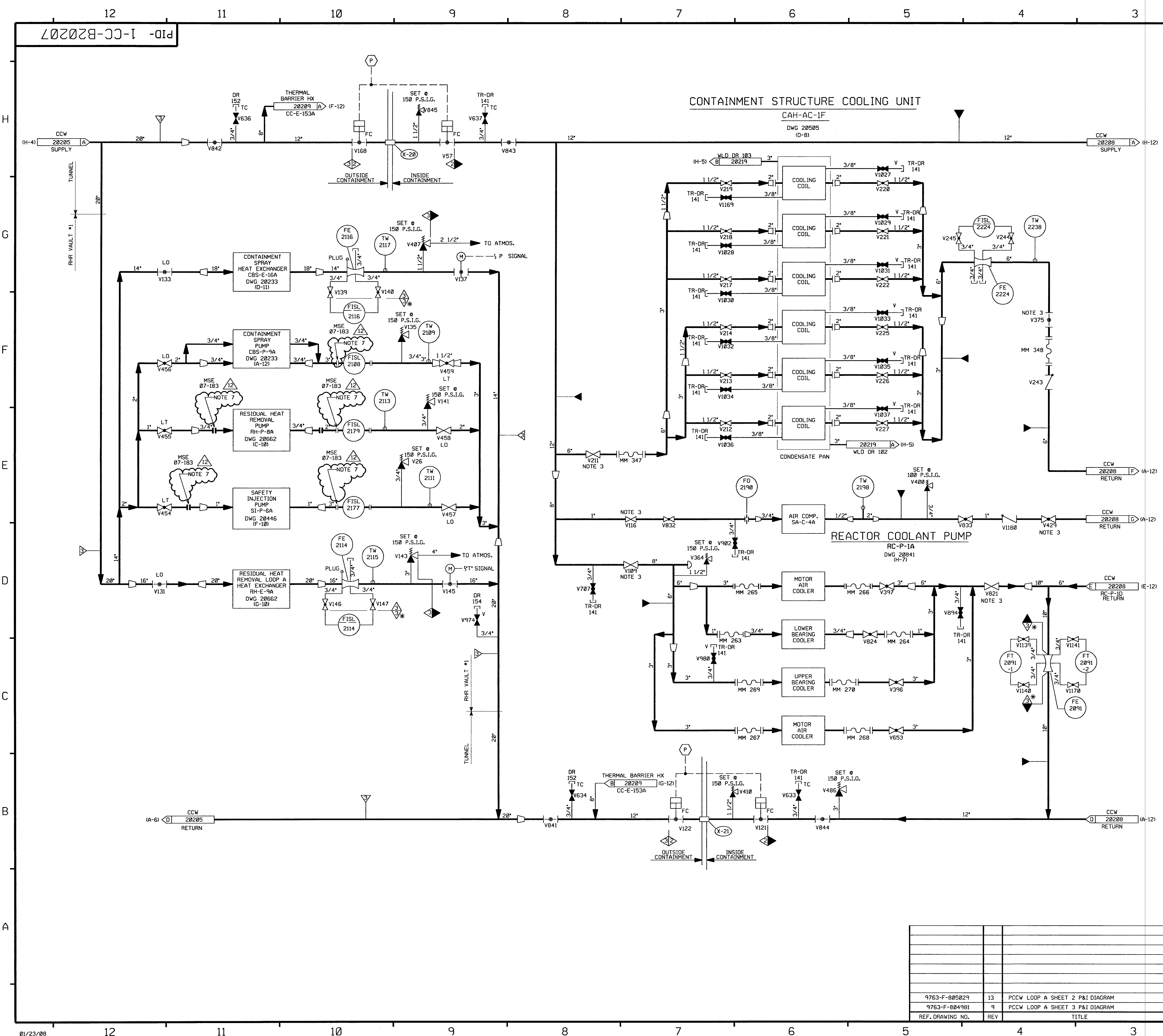
NEXTERA ENERGY

SEABROOK

PRIMARY COMPONENT COOLING
LOOP A
DETAIL

PID- 1-CC-B20206

9763-F-805612	13	RADIOACTIVE GAS WASTE SYS.SHT. 2 P & ID
9763-F-805611	13	RADIOACTIVE GAS WASTE SYS.SHT. 1P & ID
9763-F-805018	14	PCCW LOOP A SHEET 1-P&I DIAGRAM
9763-F-804981	9	PCCW LOOP A SHEET 3-P&I DIAGRAM
REF. DRAWING NO.	REV	JTTLF



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 20204, 20205, 20206, & 20208 THROUGH 20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CC UNLESS NOTED OTHERWISE.
 3. EQUIPMENT ISOLATION VALVE INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 4. VENT, DRAIN & TEST CONNECTIONS CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-005111 UNLESS OTHERWISE NOTED.
 5. Δ INDICATES REVISION LEVEL
 6. INSTRUMENT REFERENCES
 \textcircled{P} CLOSE ON "P" SIGNAL OR HEAD TANK 19A
 \textcircled{L} LOW LEVEL SIGNAL DWG. 20205
 7. UNION OR FLANGED CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FP59989.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

12	1-21-09	OPS	JM	SH	INCORP. MSE 07-183 REV. 0
11	10/03/06	JM	BCS	RRB	INCORP. MMOD 03-504 DCN 00
10	6/7/05	BCS	JM	RRB	INCORP. CR 05-05358 REV. 0
9	2/27/03	BCS	MPW	TAS	INCORP. DCR 00-019 DCN-00
8	5/3/99	BCS	RWS	GRM	REVISE P SIGNAL SYMBOL PER LOGIC DWG 1-NHY-503271
7	6/11/97	MPW	DWS	DWS	INCORP. MMOD 91-559 CA-00
6	4/19/94	BCL	MPW	DMQ	INCORP. MMOD 93-517 CA-0
5	10/20/92	BCL	MRB	WFZ	INCORP. MMOD 91-559 CA-0 (PARTIAL)
4	4/2/92	MRB	DWS	JEV	INCORP. MMOD 91-515 CA-0
3	2/27/89	MRB	GPM	RRC	INCORPORATED DCR 88-0085 CA 0 REVISED; NOTE 4 AND CLARIFIED DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES. ADDED: NOTE 6 DELETED: NNS-1 CLASS BOUNDARY AND MATERIAL SPEC. BREAKS
2	11/26/86	MRJ	WRD	RRC	ADDED CONT FLAG COORD'S & NOTE 5. ADDED CLASS FLAGS & REVISED SET PRESS PER UEXL P&ID STATUS OF INCOMPLETE ITEMS IS N/A, REVISED NOTE 4.
1	2/27/86	TAK	JDM	WFD	ISSUED FOR OPERATIONS
0	10/17/84	GD	RSL	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station

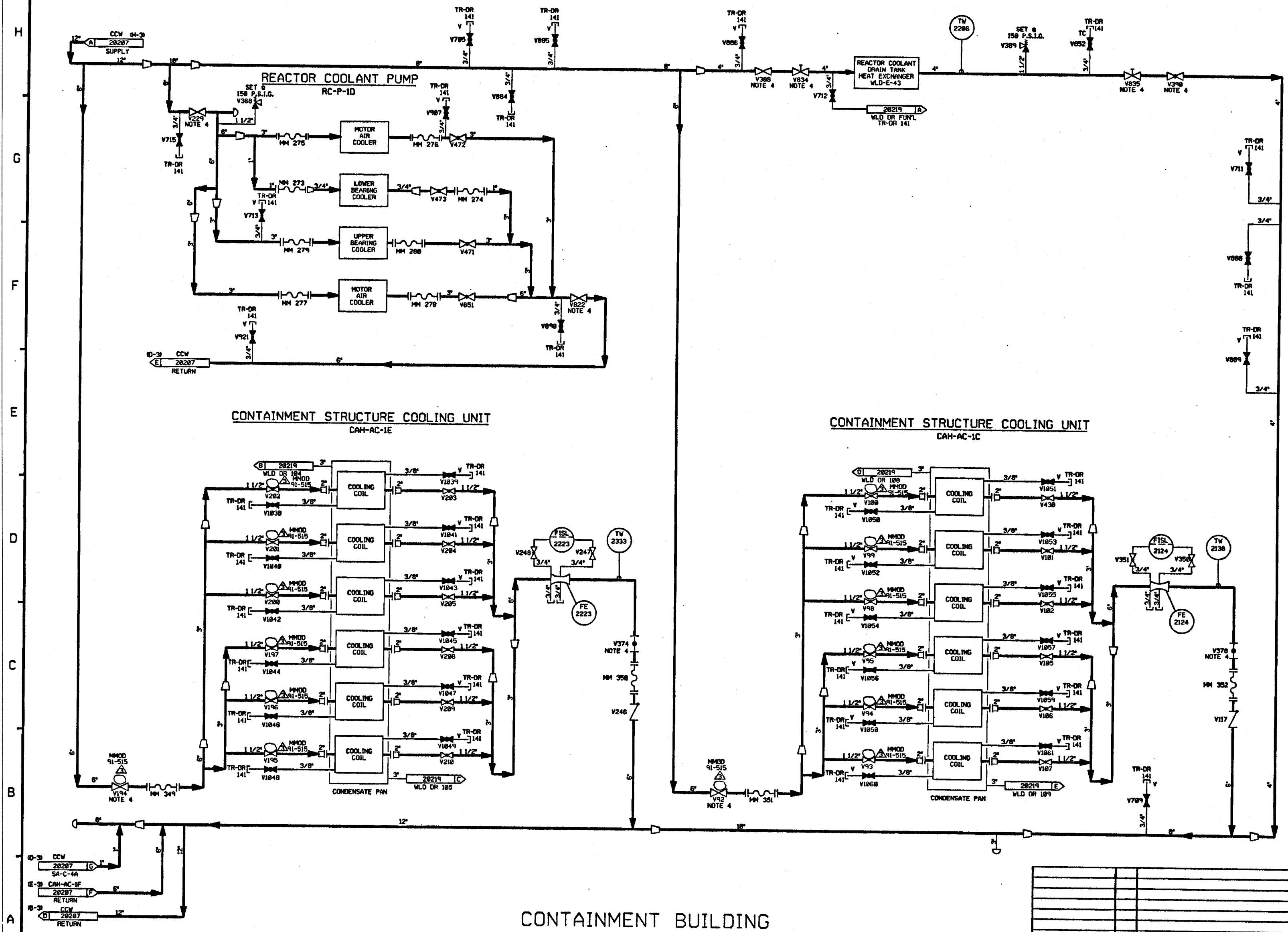
PRIMARY COMPONENT COOLING
LOOP A
DETAIL

PID- 1-CC-B20207

9763-F-805029	13	PCCW LOOP A SHEET 2 P&ID DIAGRAM
9763-F-804981	9	PCCW LOOP A SHEET 3 P&ID DIAGRAM
REF. DRAWING NO.	REV	TITLE

PID-1-CC-B20208

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



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20204, 20205, 20206, 20207, & 20209.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY SAFETY CLASS 1, UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES LOCATED INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVES PER DESIGN STANDARD H-001 UNLESS OTHERWISE NOTED.
 6. Δ INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
1	11/26/88	MRJ	OPD	WJD	BCL	RRC	REMOVED SPEC BREAKS ADDED CONT. FLAG COORD'S & NOTE 6.
2	12/27/88	TAK	WES	JDM	DJM	WFD	ISSUED FOR OPERATIONS
3	08/17/94	GO	MRB	RSL	JVK	PEF	ISSUED FOR FIELD VERIFICATION

3	11/26/88	MRB	—	DAJS	BCL	JDK	INCORP. MHOD 91-515 CAB 2.
2	11/26/88	MRJ	OPD	WJD	BCL	RRC	REMOVED SPEC BREAKS ADDED CONT. FLAG COORD'S & NOTE 6.
1	12/27/88	TAK	WES	JDM	DJM	WFD	ISSUED FOR OPERATIONS
0	08/17/94	GO	MRB	RSL	JVK	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
1	11/26/88	MRJ	OPD	WJD	BCL	RRC	REMOVED SPEC BREAKS ADDED CONT. FLAG COORD'S & NOTE 6.
2	12/27/88	TAK	WES	JDM	DJM	WFD	ISSUED FOR OPERATIONS
3	08/17/94	GO	MRB	RSL	JVK	PEF	ISSUED FOR FIELD VERIFICATION

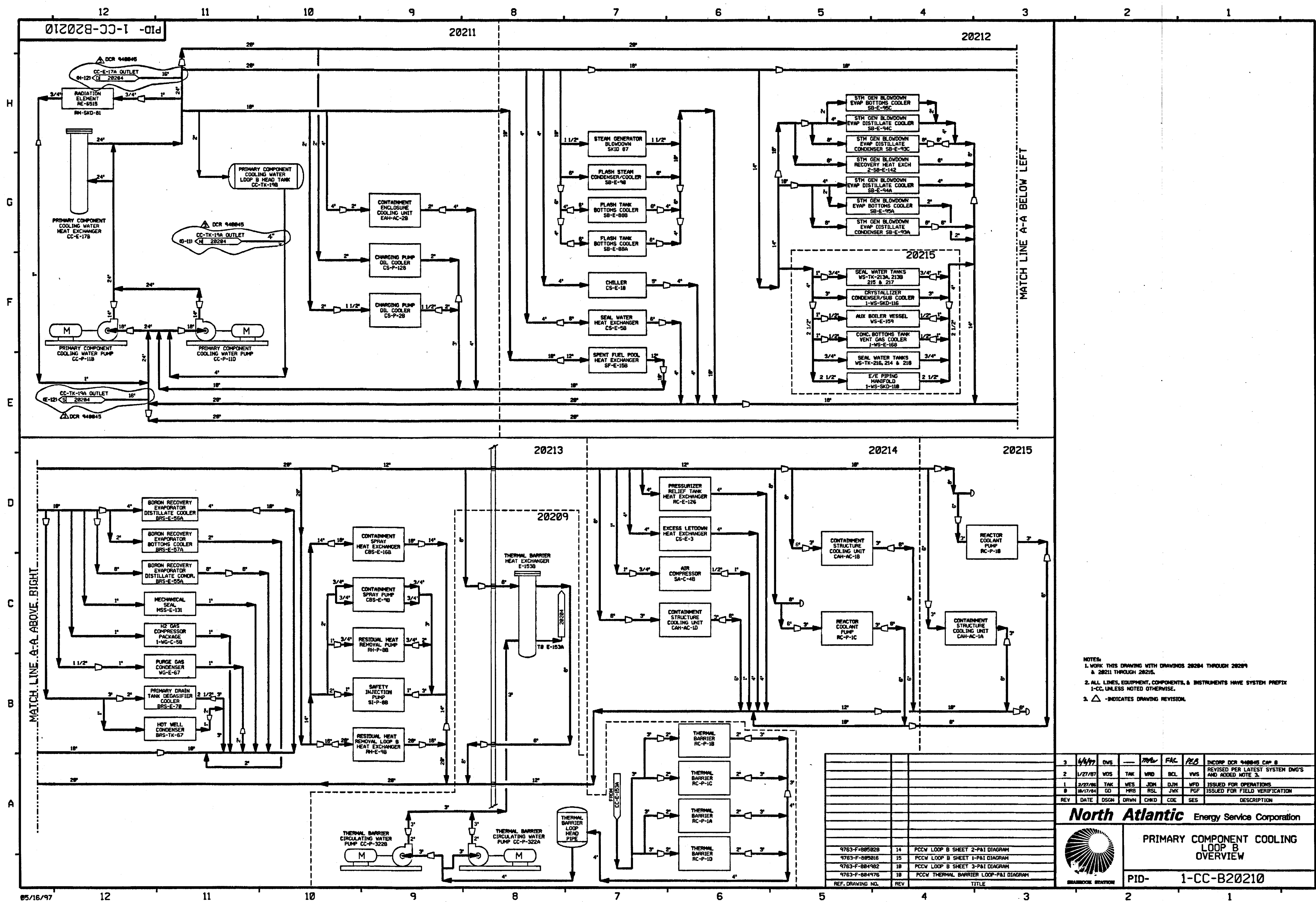
PSNH
PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

PRIMARY COMPONENT COOLING
LOOP A
DETAIL

PID- 1-CC-B20208

03/24/92



NOTES:
 1. WORK THIS DRAWING WITH DRAWINGS 28284 THROUGH 28289 & 28211 THROUGH 28216.
 2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX 1-CC, UNLESS NOTED OTHERWISE.
 3. Δ - INDICATES DRAWING REVISION.

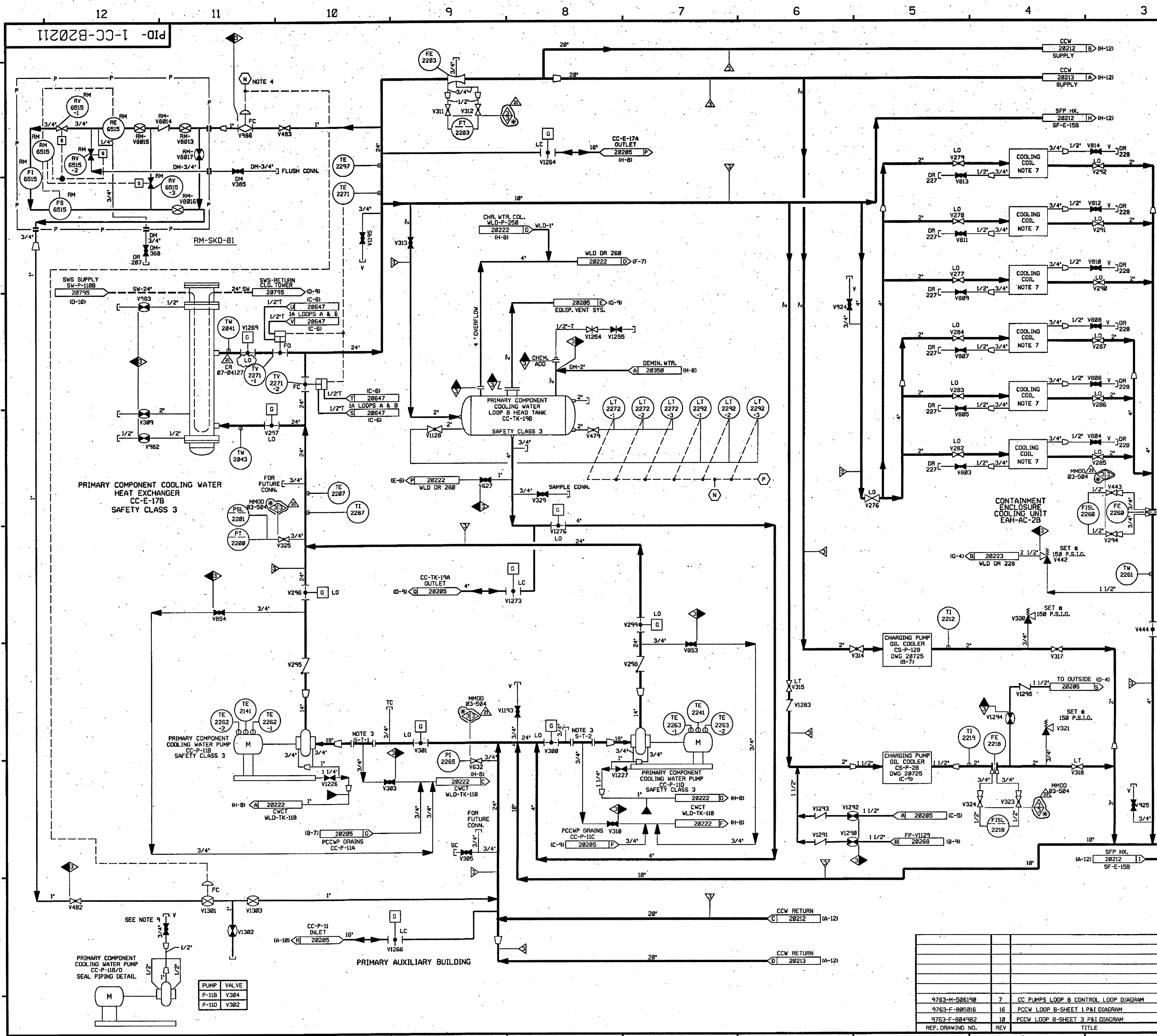
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
1	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR OPERATIONS
2	1/27/97	WDS	TAK	WRD	BCL	WVS	REVISED PER LATEST SYSTEM DNGS AND ADDED NOTE 3.
3	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
4	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
5	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
6	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
7	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
8	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
9	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
10	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
11	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION
12	1/27/97	WDS	TAK	WRD	BCL	WVS	ISSUED FOR FIELD VERIFICATION

North Atlantic Energy Service Corporation

PRIMARY COMPONENT COOLING LOOP B OVERVIEW

PID- 1-CC-B20210

REF. DRAWING NO.	REV	TITLE
9763-F-080828	14	PCCV LOOP B SHEET 2-P&I DIAGRAM
9763-F-080816	15	PCCV LOOP B SHEET 1-P&I DIAGRAM
9763-F-080982	16	PCCV LOOP B SHEET 3-P&I DIAGRAM
9763-F-080976	18	PCCV THERMAL BARRIER LOOP-P&I DIAGRAM

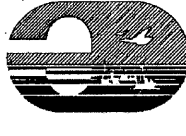


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20204 THROUGH 20215.
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "1-CC" UNLESS NOTED OTHERWISE.
 - PERMANENT SPOOL PIECE INSTALLATION SHOWN. TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 - CLOSE ON HEAD TANK TK-19B LOW LEVEL SIGNAL. SIGNAL TO CC-V447 AND CC-V448 ON DWG CC-20212, AND CC-V986, V1301 ON THIS DWG (H-11).
 - SIGNAL TO CC-V175, CC-V176, CC-V256 & CC-V257 ON DWG CC-20213
 - VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS OTHERWISE NOTED.
 - INDICATES REVISION LEVEL.
 - CONTAINMENT ENCLOSURE AIR HANDLING FOR AC-2B SEE DWG 1-MAH-20495 (B-5).
 - CONNECTION TO BE USED FOR FLUSHING SEE DWG DM-20350 (E-11) & NOTE 6.
 - QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

21	3-22-07	JM	BJS	202	INCORP MMD 03-504 DCN 00, CR 07-04127 REV. 0
20	7/29/02	JM	MPW	BCS	INCORP CR 00-10577-01
19	6/24/02	BCS	JM	PEB	INCORP DCR 00-0020 DCN-00
18	10/25/01	BCS	MPW	TAS	REINCORP DCR 940045 CA#00
17	1/6/99	DWS	MPW	PEB	REINCORP DCR 940045 CA#00
16	11/4/98	BCS	MPW	MAP	INCORP DCR 960025 DCN# 02
15	5/26/98	MPW	BCS	MAP	REVISED PER FP 51349
14	5/28/97	DWS	MPW	VNS	INCORP DCR 960025 DCN# 0 & 960016 DCN# 1, ALSO RELOCATED INSTRUMENT REFERENCE NOTES "N" & "P" FROM THE BODY OF THE P&ID TO NOTE 4.
13	11-27-95	MPW	BCS	PEB	INCORP DCR 94-45 CA#2 & 1
12	7/7/95	BCL	MPW	DMD	INCORP MMD 92-590 CA#0
11	11/29/94	DWS	MPW	MMD	INCORP MMD 93-517, CA-0
10	4/14/94	BCL	MPW	DMD	INCORP MMD 93-517, CA-0
9	4/13/92	MRB	BCL	JEV	INCORP MMD 91-515, CA#0
8	12/16/91	RMC	FCB	BCL	INCORP MMD 91-511, CA#0
7	11/12/91	RMC	JM	JEV	INCORP DCR 88-447 CA#0
6	2/26/91	MRB	FCB	BCL	INCORP ECA 99/0805/090 & INCORP MMD 98-648 CA#0
5	3/22/88	GPM	BCL	RRC	REVISED PIPING, NOTES 4 & 5 & INSTR. REFERENCE SIGNAL, ADDED NOTES 7 & 8, VENT & DRAIN DESIGNATION & CONT. DWG. NO'S & ACCORD'S, DELETED: NNS-ICL BOUNDARY.
4	6/16/87	MRW	PAL	VNS	VALVES V1228 & V1227 SHOWN OPEN PER USA& P&ID, ADDED: WORD OVERFLOW TO 4" LINE, CODE BREAKS PUT BACK, REVISED CONT. REF. LETTER.
3	10/3/86	BCL	MAP	RRC	INCORP ECA 19/3187D & 19/080327A, MODIFIED SKID-B1 PER FP-71130, ADDED CONTINUATION REF'S & 05A/05B/05C/05D VALVES V296 & V299, ADD LEGEND NOTE.
2	6/28/86	DWS	JDM	RRC	INCORP ECA 99/115870A, REVISED RM-SKD-B1 TO INCLUDE VALVES.
1	2/27/86	TAK	JDM	WFO	ISSUED FOR OPERATIONS AND INCORP. ECA'S 99/0805/090, 19/080327C AND 19/3187C
0	10/17/84	GO	RSL	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

Seabrook Station

PRIMARY COMPONENT COOLING LOOP "B" DETAIL

PID- 1-CC-B20211

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

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 28294 THRU 28295.

2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.

3. INSTRUMENT REFERENCES

- (B) FROM SB-PT-3A DWG. 1-SB-28629
- (F) FROM SB-TE-7A DWG. 1-SB-28629
- (G) FROM SB-TE-15A DWG. 1-SB-28629
- (H) FROM SB-PT-3C DWG. 1-SB-28631
- (I) FROM SB-TE-7C DWG. 1-SB-28631
- (J) FROM SB-TE-15C DWG. 1-SB-28631
- (K) FROM SB-TE-6952 DWG. 1-SB-28627

N CLOSE ON HEAD TANK TK-198 LOW LEVEL SIGNAL.

(P) TO CS-PS-374A DWG. 1-CS-28727

4. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER UNIT-890111 UNLESS OTHERWISE NOTED.

5. OPERATING BANDS OF THESE CONTROL VALVES ARE ADJUSTED SUCH THAT THESE VALVES ARE CONTROLLED BETWEEN 5 TO 100% OPEN POSITION.

6. △ -INDICATES REVISION LEVEL.

7. DELETED.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

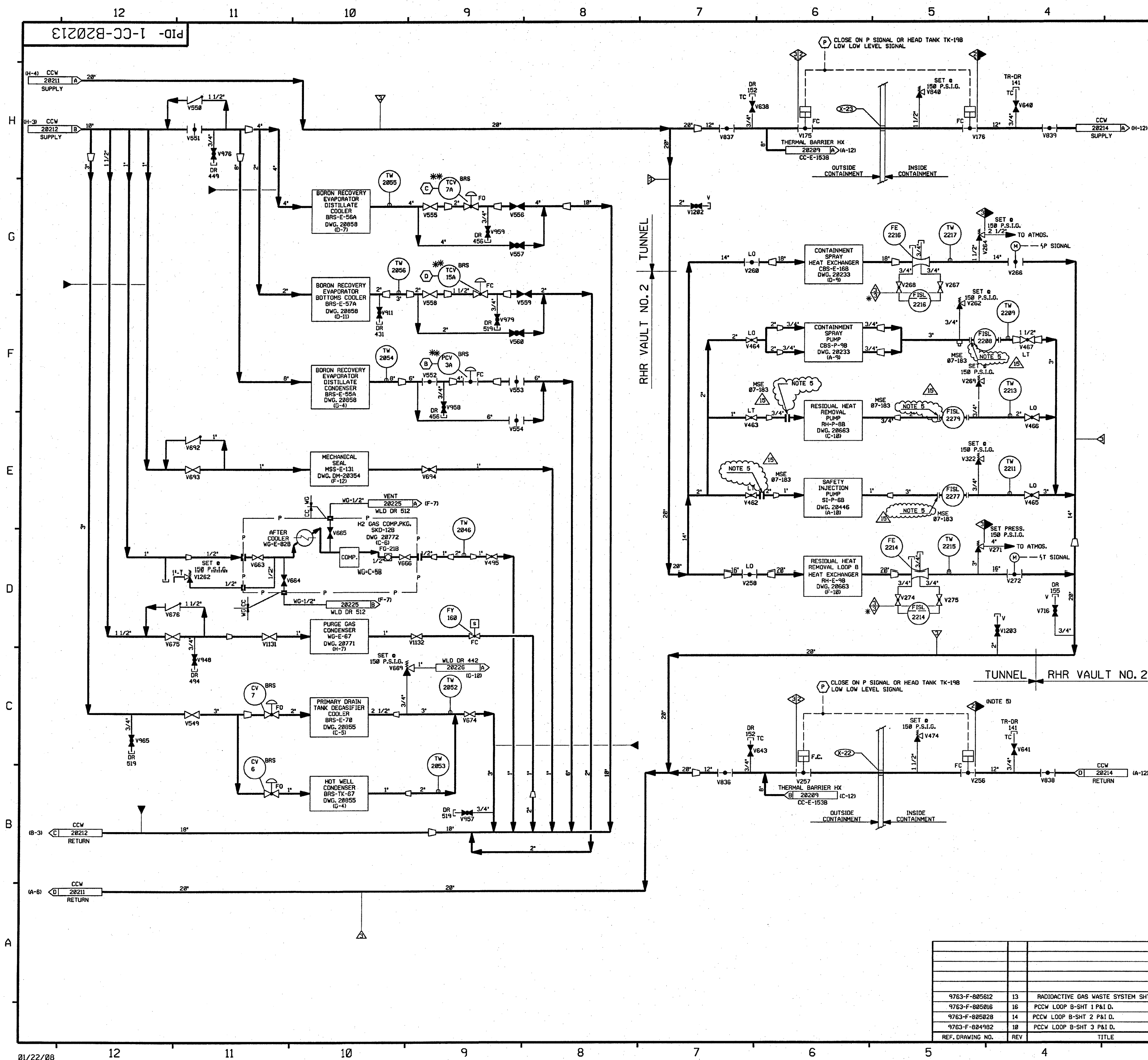
13	10-3-86	JM	BSS	RER	INCRP MM00 00-504 DCN 00
12	6/4/83	BSCS	JM	TAS	INCRP DCR 00-019 DCN-01
11	10/30/83	BCL	JM	TAS	INCRP DCR 00-019 DCN-00
10	10/16/82	JM	BSCS	MPW	INCRP CR# 01-8376 REV 0
9	4/23/82	MRB	BCL	RRL	INCRP MM00'S 91-511 CA0, 91-515 CA0 & 91-622 CA0
8	10/29/90	MRB	JM	BCL	INCRP MM00 90-501 CA 0
7	9/24/90	MRB	JM	BCL	INCRP MM00 90-516 CA 0
6	3/22/88	GPM	BCL	RRC	REVISED; NOTES 3 & 4, INST. REFERENCE SIGNAL, VALVE NUMBER, ADDED CONT. DWG NUMBERS & COR'D'S, DELETED INST. 1 & 2 DESCRIPTION
5	9/15/87	MPW	BCL	RRC	ADDED UNIT 2 PIPING & VALVES PER INSTALLATIONS & U&E P&ID 806537
4	6/15/87	MPW	PAL	VWS	INCRP ECA 99/149548; ADDED FLEX HOSE- VALVES V681 & V682 SHOWN OPEN AND DELETED V6801 & V60802 (W/A I&C VALVES)
3	10/3/86	PAL	MAP	RRC	ADDED 6000 VALVE NDS & CONT. DWG REFS REVISED BUILDING BOUNDARY IDENTIFICATION, REVISED PER ERECTION ID# CC-952-86, DELETED NOTE 7
REV	DATE	DSGN	CHKD	CC	DESCRIPTION

FPL ENERGY

Seabrook Station

PRIMARY COMPONENT COOLING
LOOP B
DETAIL

PID- 1-CC-B20212



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 20204 THRU 20215.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX I-CC UNLESS NOTED OTHERWISE.
 3. INSTRUMENT REFERENCES
(B) FROM BRS-PT-3A DWG. 20858
(C) FROM BRS-TE-7A DWG. 20858
(D) FROM BRS-TE-15A DWG. 20858
 4. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NHY-88511 UNLESS OTHERWISE NOTED.
 5. UNION OR FLANGED CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FMS9989.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

14	1-21-88	GPS	JW	INCORP MSE 07-183 REV 00
13	10/03/06	JM	BCS	INCORP MMOD 03-504 DCN 00
12	1/30/03	BCS	JM	INCORP DCR 00-019 DCN 00
11	12/19/02	JM	BCS	INCORP CR 02-10595 REV 00
10	5/25/02	JM	MPW	INCORP MSE 01-0110 REV 00
9	5/2/00	BCS	DWS	INCORP MMOD 99-574 DCN 00
8	9/28/95	BCL	MPW	INCORP MMOD 93-544 CA0
7	3/31/93	MRB	BCL	INCORP MMOD 92-553 CA0
6	4/23/92	MRB	BCL	INCORP MMOD'S 91-515 CA0 & 91-622 CA0
5	2/27/89	MRB	GPM	INCORPORATED DCR 88-85 CA0 REVISED NOTE 4 DELETED NNS-1 CLASS BOUNDARY ADDITIONAL LOCATION COORD. OF ASSOCIATED SYSTEM EQUIPMENT AND SYS. DWG. NO.'S
4	11/14/86	JDM	WRD	REMOVED SAFETY CLASS BREAKS FROM VENTS & DRAINS DUE TO THE USE OF NOTE 4 REMOVED PIPE SPEC BREAKS, CORRECTED VALVE TYPE, ADDED REF. DWG. & UPDATED REVS., CONT. DWG. COORDS., P&ID LEGEND NOTE.
3	9/12/86	MPW	MAP	CHANGED V648 & V641 TO GATE VALVES, REVISED PER NCR 73/78148, REVISED SKID PIPING PER FP-51177
2	6/28/86	JDM	DWS	GENERAL REV & ADDED CODE CLASS BREAK REV'D 9/11 TO GLOBE VALVE
1	2/27/86	TAK	JDM	ISSUED FOR OPERATIONS
0	10/17/84	GD	RSL	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE

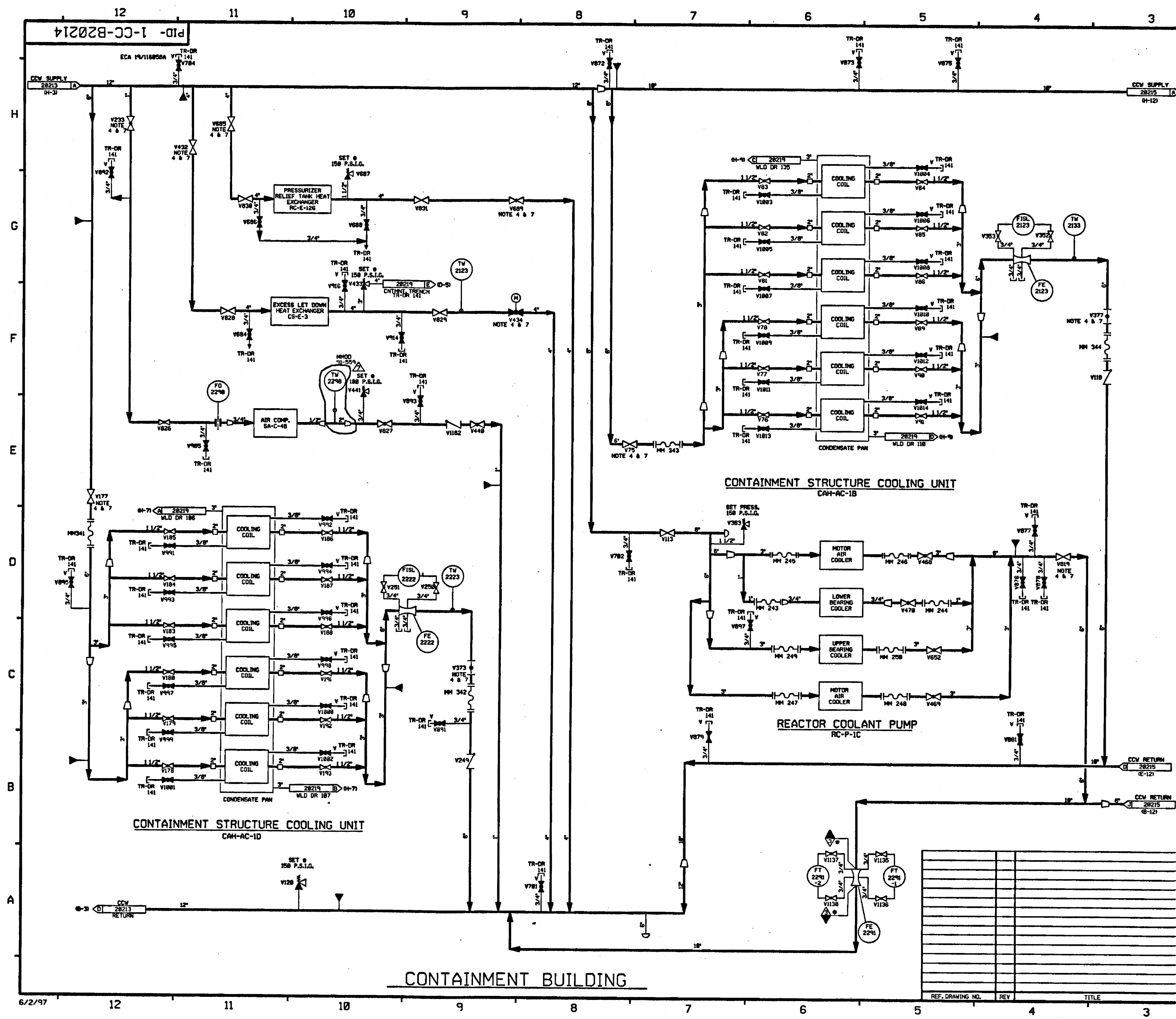
FPL ENERGY

Seabrook Station

PRIMARY COMPONENT COOLING
LOOP B
DETAIL

PID- 1-CC-B20213

REF. DRAWING NO.	REV	TITLE
9763-F-805612	13	RADIOACTIVE GAS WASTE SYSTEM SHT. 2 P&ID
9763-F-805016	16	PCCW LOOP B-SHT 1 P&ID
9763-F-805028	14	PCCW LOOP B-SHT 2 P&ID
9763-F-804982	10	PCCW LOOP B-SHT 3 P&ID



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

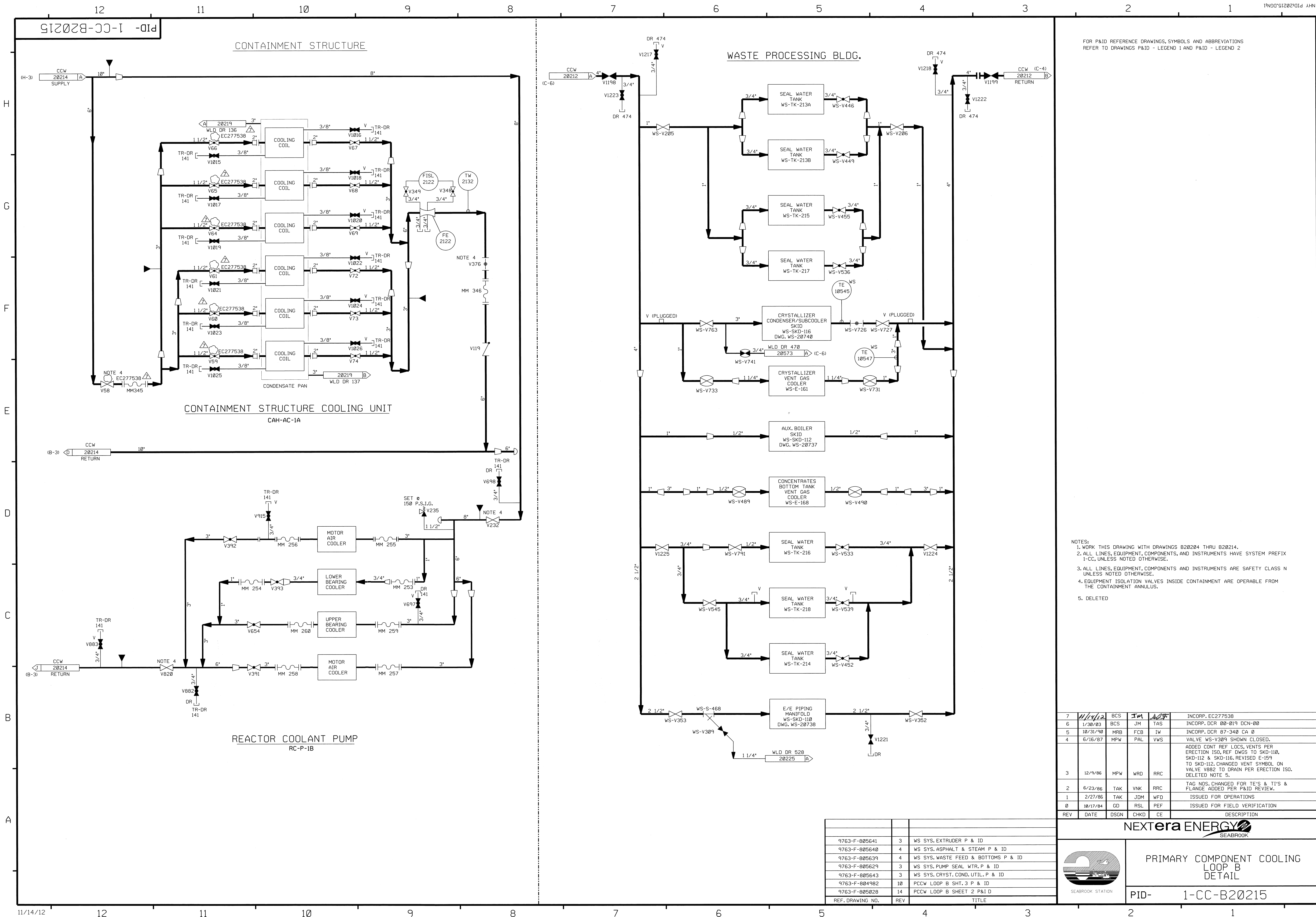
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28204 THRU 28215.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS 3 UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER DESIGN STANDARD M-001 UNLESS OTHERWISE NOTED.
 6. Δ INDICATES REVISION LEVEL.
 7. PORTION OF SYSTEM HAS BEEN DOWNGRADED, HOWEVER PIPING SPECIFICATION HAS BEEN MAINTAINED TO SAFETY CLASS NOMENCLATURE. SOME COMPONENTS WITHIN THE NEW BOUNDARY HAVE BEEN PROCURED TO SAFETY CLASS 3 REQUIREMENTS, BUT USED IN N.A.S. SERVICE.

7	6/1/97	HPV		OK	FAC	RLC	INCOMP. HMOO 91-259 CA#98
6	4/14/94	BCL	DWS	OK	DWS	OK	INCOMP. HMOO 93-517 CA#9
5	10/28/90	BCL	MRB	DWS	WEZ	INCOMP. HMOO 91-259 CA#9 (PARTIAL)	
4	4/13/92	MRB		BCL	DWS	JEV	INCOMP. HMOO 91-515 CA#
3	12/17/88	MRJ	DWS	PAL	BCL	RRC	ADDED CONT FLAG CORR'D. NOTE 6, REVISED V 441 SET PRESS PER LEAC PAID, REMOVED CAP PER ERECTION ISO.
2	5/23/88	TAK	OK	VAK	JNCS	RRC	PER LATEST PAID REV.
1	2/27/88	TAK	YES	JDM	DJH	WFO	ISSUED FOR OPERATIONS
0	10/17/84	GD	MRB	RSL	JMK	PEP	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CODE	SES	DESCRIPTION

North Atlantic Energy Service Corporation

PRIMARY COMPONENT COOLING LOOP B DETAIL

PID- 1-CC-B20214



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 B20204 THRU B20214.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CC, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED OTHERWISE.
 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 5. DELETED

7	11/14/12	BCS	JM	WVS	INCORP. EC277538
6	1/30/03	BCS	JM	TAS	INCORP. DCR 00-019 DCN-00
5	10/31/90	MRB	FCB	IW	INCORP. DCR 87-340 CA 0
4	6/16/87	MPW	PAL	VWS	VALVE WS-V309 SHOWN CLOSED. ADDED CONT. REF. LOCS, VENTS PER ERECTION ISO, REF. DWGS TO SKD-110, SKD-112 & SKD-116. REVISED E-159 TO SKD-112. CHANGED VENT SYMBOL ON VALVE V882 TO DRAIN PER ERECTION ISO. DELETED NOTE 5.
3	12/9/86	MPW	WRD	RRC	
2	6/23/86	TAK	VNK	RRC	TAG NOS. CHANGED FOR TE'S & TI'S & FLANGE ADDED PER P&ID REVIEW.
1	2/27/86	TAK	JDM	WFD	ISSUED FOR OPERATIONS
0	10/17/84	GD	RSL	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

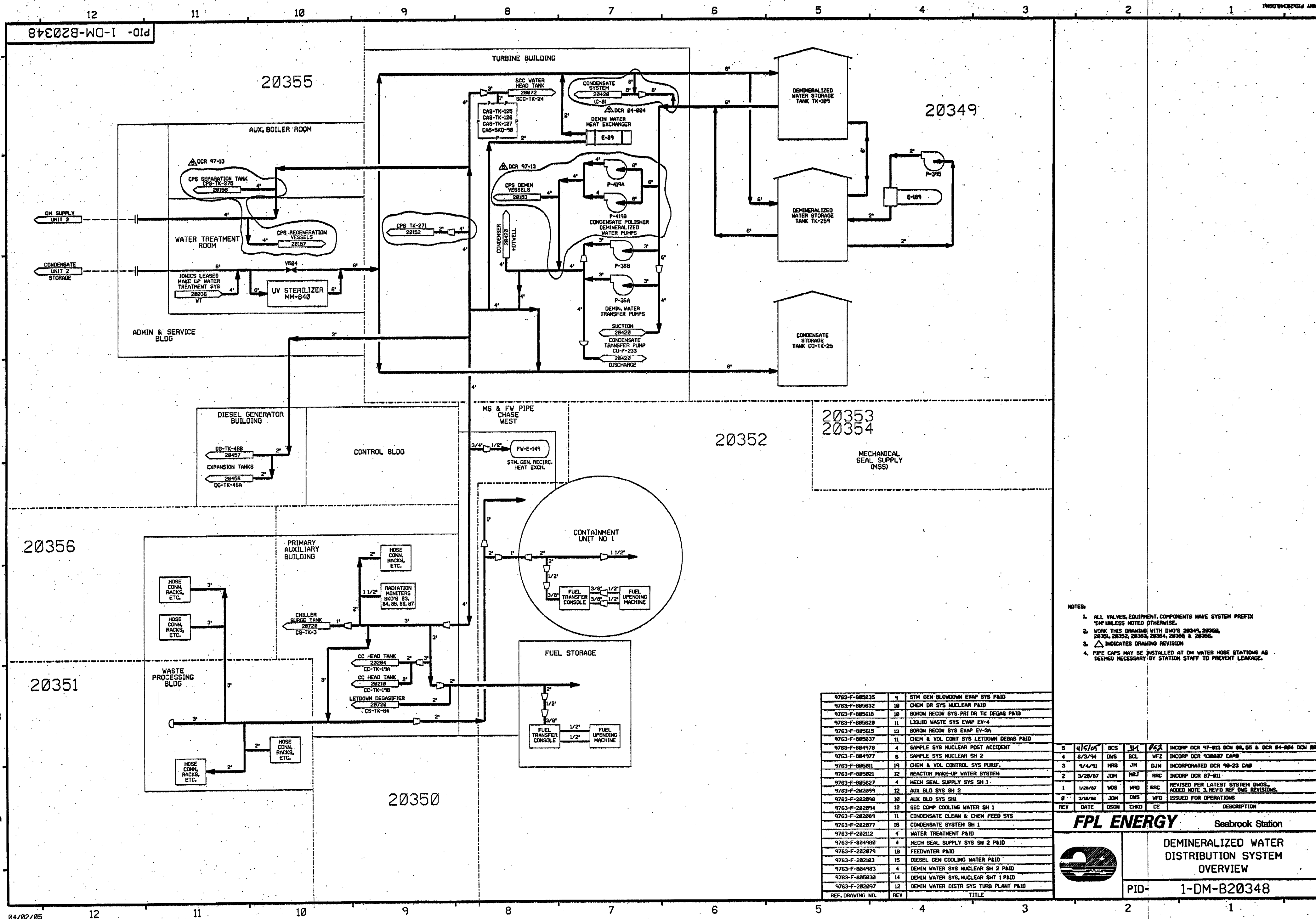
NEXTERA ENERGY
SEABROOK



PRIMARY COMPONENT COOLING
LOOP B
DETAIL

PID- 1-CC-B20215


REF. DRAWING NO.	REV	TITLE
9763-F-805641	3	WS SYS. EXTRUDER P & ID
9763-F-805640	4	WS SYS. ASPHALT & STEAM P & ID
9763-F-805639	4	WS SYS. WASTE FEED & BOTTOMS P & ID
9763-F-805629	3	WS SYS. PUMP SEAL WTR. P & ID
9763-F-805643	3	WS SYS. CRYST. COND. UTIL. P & ID
9763-F-804982	10	PCCW LOOP B SHT. 3 P & ID
9763-F-805028	14	PCCW LOOP B SHEET 2 P&ID



- NOTES:
1. ALL VALVES, EQUIPMENT, COMPONENTS HAVE SYSTEM PREFIX "DM" UNLESS NOTED OTHERWISE.
 2. WORK THIS DRAWING WITH DWG'S 20344, 20306, 20301, 20302, 20303, 20304, 20305 & 20356.
 3. INDICATES DRAWING REVISION.
 4. PIPE CAPS MAY BE INSTALLED AT DM WATER HOSE STATIONS AS DEEMED NECESSARY BY STATION STAFF TO PREVENT LEAKAGE.

9763-F-805835	9	STM GEN BLOWDOWN EVAP SYS PAID
9763-F-805632	10	CHEM DR SYS NUCLEAR PAID
9763-F-805618	10	BORON RECOV SYS PRI DR TK DEGAS PAID
9763-F-805629	11	LIQUID WASTE SYS EVAP EV-4
9763-F-805615	13	BORON RECOV SYS EVAP EV-3A
9763-F-805837	11	CHEM & VOL CONT SYS LETDOWN DEGAS PAID
9763-F-804978	4	SAMPLE SYS NUCLEAR POST ACCIDENT
9763-F-804977	6	SAMPLE SYS NUCLEAR SH 2
9763-F-805811	19	CHEM & VOL CONTROL SYS PURIF.
9763-F-805821	12	REACTOR MAKE-UP WATER SYSTEM
9763-F-805627	4	MECH SEAL SUPPLY SYS SH 1
9763-F-202899	12	AUX BLD SYS SH 2
9763-F-202898	10	AUX BLD SYS SH1
9763-F-202894	12	SEC COMP COOLING WATER SH 1
9763-F-202869	11	CONDENSATE CLEAN & CHEM FEED SYS
9763-F-202877	10	CONDENSATE SYSTEM SH 1
9763-F-202112	4	WATER TREATMENT PAID
9763-F-804988	4	MECH SEAL SUPPLY SYS SH 2 PAID
9763-F-202879	10	FEEDWATER PAID
9763-F-202103	15	DIESEL GEN COOLING WATER PAID
9763-F-804983	4	DEMIN WATER SYS NUCLEAR SH 2 PAID
9763-F-805830	14	DEMIN WATER SYS NUCLEAR SH1 1 PAID
9763-F-202097	12	DEMIN WATER DISTR SYS TURB PLANT PAID
REF. DRAWING NO.	REV	TITLE

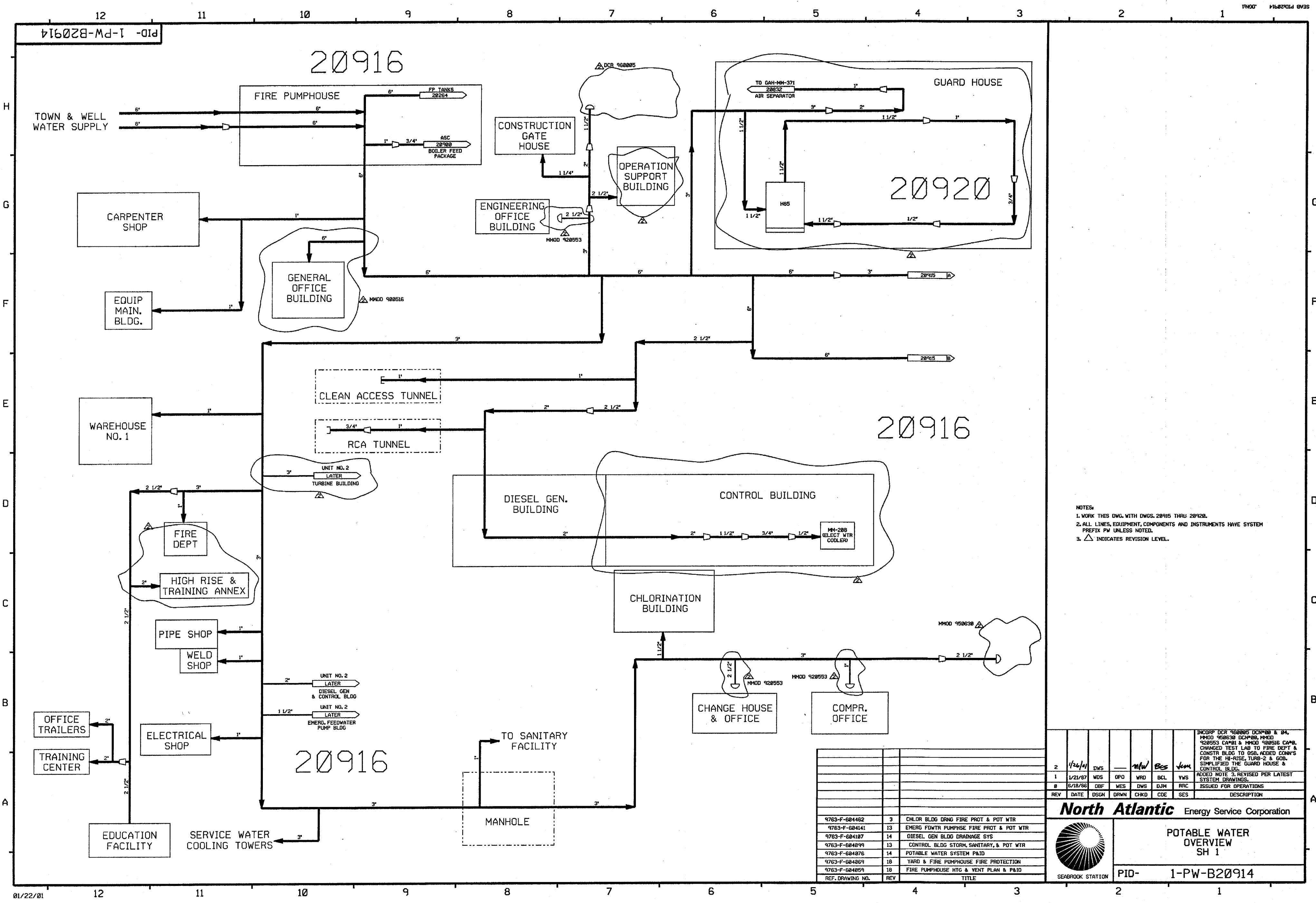
5	4/15/04	BCS	JM	WZ	INCORP DCR 97-813 DCM 00, 05 & DCR 04-004 DCM 00
4	6/3/94	DWS	BCL	WZ	INCORP DCR 93B007 CAPS
3	9/4/91	WRS	JH	DJM	INCORPORATED DCR 90-23 CAS
2	3/28/87	JOM	MRJ	RRC	INCORP DCR 87-011
1	1/28/87	WOS	WFO	RRC	REVISED PER LATEST SYSTEM DWGS. ADDED NOTE 3, REV'D REF DWG REVISIONS.
0	3/18/86	JOM	DWS	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**

Seabrook Station

DEMINERALIZED WATER DISTRIBUTION SYSTEM OVERVIEW

PID-1-DM-B20348



NOTES:
 1. WORK THIS DWG. WITH DWGS. 20915 THRU 20920.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX PW UNLESS NOTED.
 3. Δ INDICATES REVISION LEVEL.

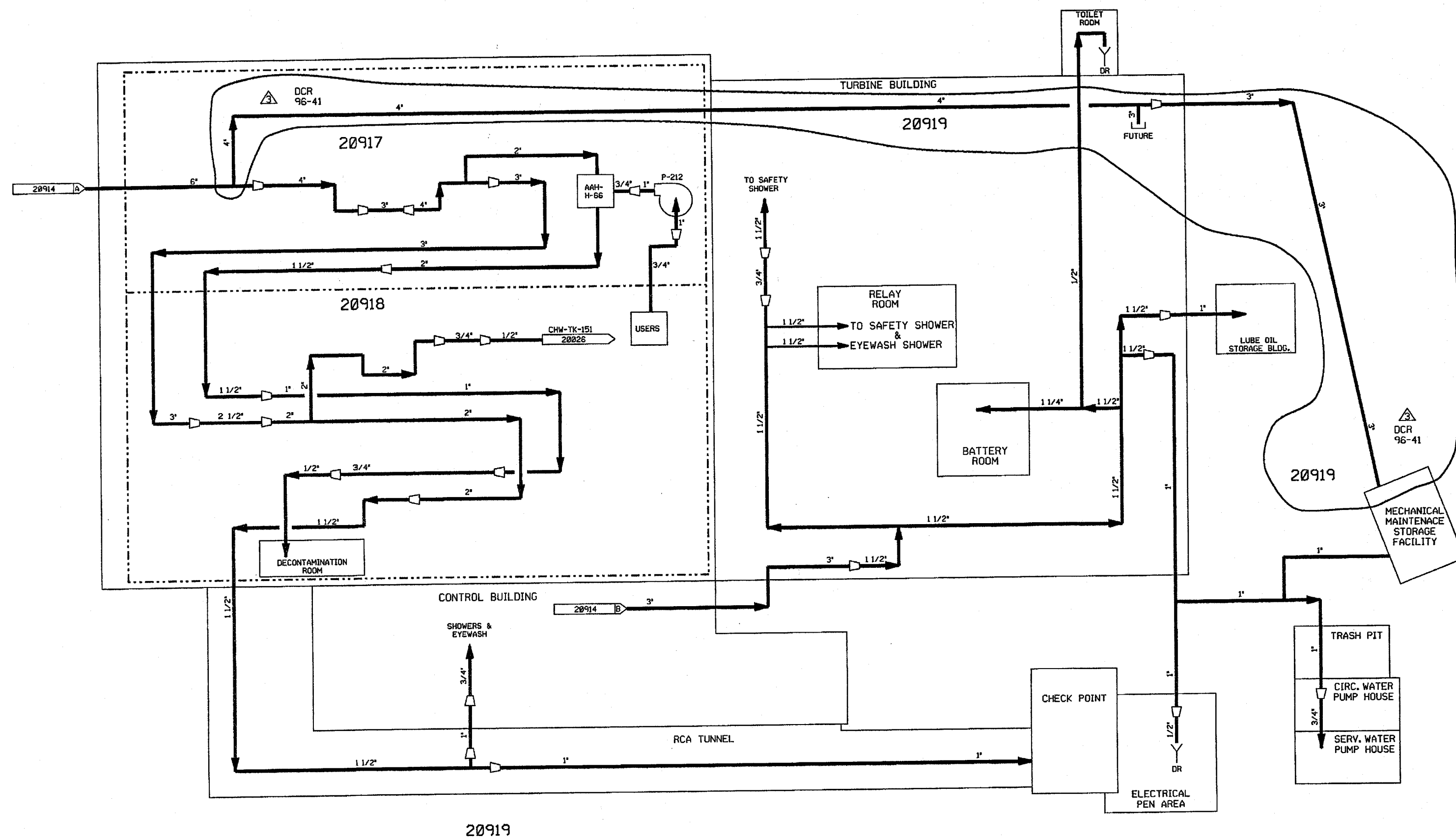
9763-F-004462	3	CHLOR BLDG DRNG FIRE PROT & POT WTR
9763-F-004441	13	EMERG FDNTR PUMPHSE FIRE PROT & POT WTR
9763-F-004187	14	DIESEL GEN BLDG DRAINAGE SYS
9763-F-004099	13	CONTROL BLDG STORM, SANITARY, & POT WTR
9763-F-004076	14	POTABLE WATER SYSTEM P&ID
9763-F-004069	18	YARD & FIRE PUMPHOUSE FIRE PROTECTION
9763-F-004059	18	FIRE PUMPHOUSE HTG & VENT PLAN & P&ID
REF. DRAWING NO.	REV	TITLE

2	1/24/01	DWS		MW	BES	Jem
1	1/21/97	MDS	OPO	VRD	BCL	VMS
0	6/18/86	DBF	WES	DWS	DJM	RRC
REV	DATE	DSGN	DRWN	CHKD	CDE	SES
DESCRIPTION						

North Atlantic Energy Service Corporation

POTABLE WATER OVERVIEW SH 1

PID- 1-PW-B20914



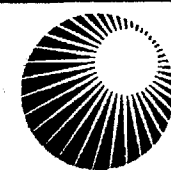
1. WORK THIS DRAWING WITH DRAWINGS 20914, 20916 THRU 20920.

2. ALL LINES, EQUIPMENT, COMPONENT AND INSTRUMENTATION HAVE SYSTEM PREFIX PW, UNLESS NOTED OTHERWISE.

3. Δ INDICATES REVISION LEVEL.

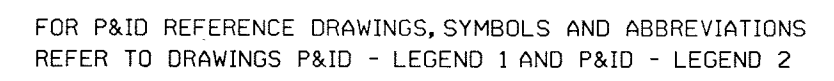
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North Atlantic Energy Service Corporation




POTABLE WATER
OVERVIEW
SH 2

PID- 1-PW-B20915




NOTES:

1. RMW IS A ONE DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX RMW, UNLESS NOTED OTHERWISE.
3. INSTRUMENTATION REFERENCE SYMBOLS:
 - (A) TO AS-TV-9230 ON DWG. 20571.
 - (B) FROM REACTOR COOLANT MAKE-UP CONTROL
4. V20 INTERNALS HAVE BEEN REMOVED SO THAT V105 CANNOT BE ISOLATED.
5. VALVE V20 IS LOCATED OUTSIDE DIKE.
6. \triangle - INDICATES REVISION LEVEL.
7. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
8. ALTERNATE FILL PATH FOR THERMAL BARRIER HEAD TANK 1-CC-TK-196 FROM RMW SYSTEM. THIS FILL PATH UTILIZES A REMOVABLE HOSE ASSEMBLY THAT IS INSTALLED PLACED IN SERVICE AND REMOVED IN ACCORDANCE WITH APPROVED STATION PROCEDURE.

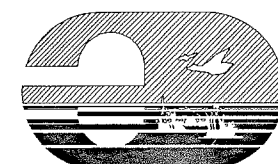
EC-144922 

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

14	12/09/10	GFS	JW	HP	INCORP. DCR 00-2030 DCN=00
13	01/15/01	BGS	MPW	JCM	INCORP. DCR 90-0618 DCN=00
12	5/17/99	DWS	BCS	HWM	INCORP. MMOD 970618 DCN=00
11	12/9/94	MPW	BCL	MHO	INCORP. MMOD 93-545 CA0
10	4/14/92	MRB	BCL	JEV	INCORP. MMODS 91-515 CA0 & 91-622 CA0
9	8/21/91	MRB	JM	PEB	INCORP. DCR 90-7 CA03
8	1/18/90	MRB	GPM	IW	INCORP. DCR 89-83 CA05
7	5/17/89	GPM	MRB	RRC	INCORPORATED MMOD 89-532 CA 01 REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS & INTERFACES. NOTE 2 ADDED: NOTE DELETED: SAFETY CLASS DESIGNATION PER NOTE 2
6	4/7/87	MRJ	GPM	VWS	ADDED V49 AND PIPING PER ERECTION ISO'S. REMOVED DUPLICATED PIPING AND EQUIP.
5	12/31/86	JDM	WRD	RRC	ADDED CONTINUATION DRAWING COORD., LEGEND NOTE & REFERENCE DRAWINGS.
4	9/12/86	MPW	MAP	RRC	REVISED PER ERECTION PIPING ISO'S RWM-1155-01, F-20W5-7, -870853. ADDED CONTINUATIONS & NOTES 5. INCORP. ECA 19/3/008A
3	6/27/86	JDM	BCL	RRC	UPDATE PER NEW REV. DWG. REV. INCORP. ECA 19/4127A, ECA 19/116077A INCORP. ECA 05/100632A ADD DWG. REFERENCES
2	5/6/86	DBF	TAK	WFD	REVISED CONTINUATIONS
1	2/5/86	WAL	JDM	WFD	INCORPORATE ECA 89/112679A ISSUE FOR OPERATIONS
0	04/25/85	DSN	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



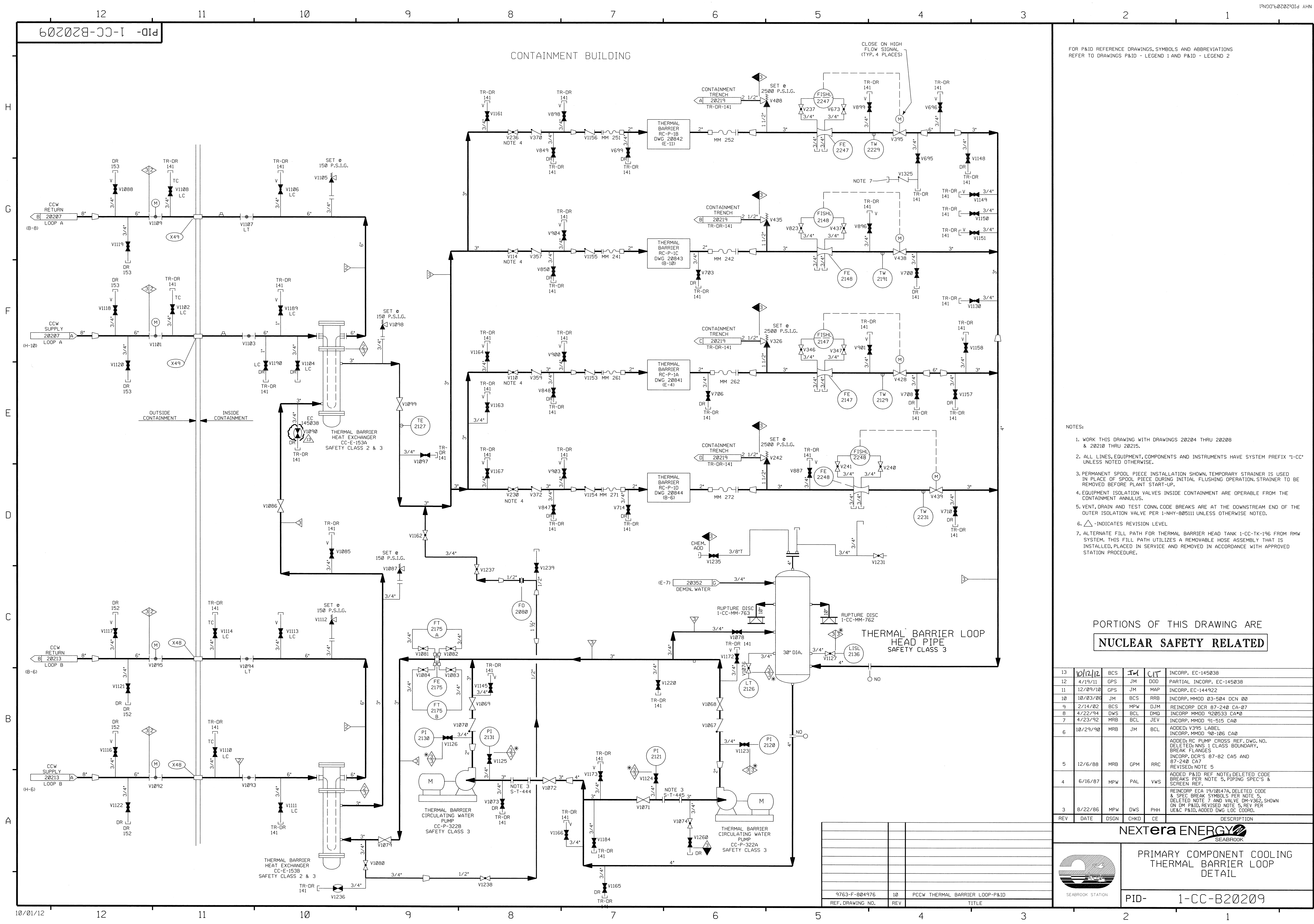
NEXTERA ENERGY
SEABROOK



SEABROOK STATION

REACTOR MAKE-UP WATER SYSTEM

PID-
1-RMW-B20360




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 20204 THRU 20208 & 20210 THRU 20215.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "1-CC" UNLESS NOTED OTHERWISE.
 - 3. PERMANENT SPOOL PIECE INSTALLATION SHOWN. TEMPORARY STRAINER IS USED IN PLACE OF SPOOL PIECE DURING INITIAL FLUSHING OPERATION. STRAINER TO BE REMOVED BEFORE PLANT START-UP.
 - 4. EQUIPMENT ISOLATION VALVES INSIDE CONTAINMENT ARE OPERABLE FROM THE CONTAINMENT ANNULUS.
 - 5. VENT, DRAIN AND TEST CONN. CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS OTHERWISE NOTED.
 - 6. Δ -INDICATES REVISION LEVEL.
 - 7. ALTERNATE FILL PATH FOR THERMAL BARRIER HEAD TANK 1-CC-TK-196 FROM RMW SYSTEM. THIS FILL PATH UTILIZES A REMOVABLE HOSE ASSEMBLY THAT IS INSTALLED, PLACED IN SERVICE AND REMOVED IN ACCORDANCE WITH APPROVED STATION PROCEDURE.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

13	10/12/12	BCS	JM	CIT	INCORP. EC-145038
12	4/19/11	GPS	JM	DOD	PARTIAL INCORP. EC-145038
11	12/09/10	GPS	JM	MAP	INCORP. EC-144922
10	10/03/08	JM	BCS	RRB	INCORP. MMOD 03-504 DCN 00
9	2/14/02	BCS	MPW	DJM	REINCORP. DCR 87-240 CA-07
8	4/22/94	DWS	BCL	DMO	INCORP. MMOD 920533 CA#0
7	4/23/92	MRB	BCL	JEV	INCORP. MMOD 91-515 CA0
6	10/29/90	MRB	JM	BCL	ADDED: V395 LABEL INCORP. MMOD 90-106 CA0
5	12/6/88	MRB	GPM	RRC	ADDED: RC PUMP CROSS REF. DWG. NO. DELETED: NNS 1 CLASS BOUNDARY, BREAK FLANGES INCORP. DCR'S 87-82 CA5 AND 87-240 CA7 REVISED: NOTE 5
4	6/16/87	MPW	PAL	VWS	ADDED P&ID REF NOTE; DELETED CODE BREAKS PER NOTE 5, PIPING SPEC'S & SCREEN REF.
3	8/22/86	MPW	DWS	PHH	REINCORP. ECA 19/10/147A; DELETED CODE & SPEC BREAK SYMBOLS PER NOTE 5, DELETED NOTE 7 AND VALVE DM-V362, SHOWN ON DM P&ID, REVISED NOTE 5, REV PER UE&C P&ID, ADDED DWG LOC COORD.
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



SEABROOK STATION

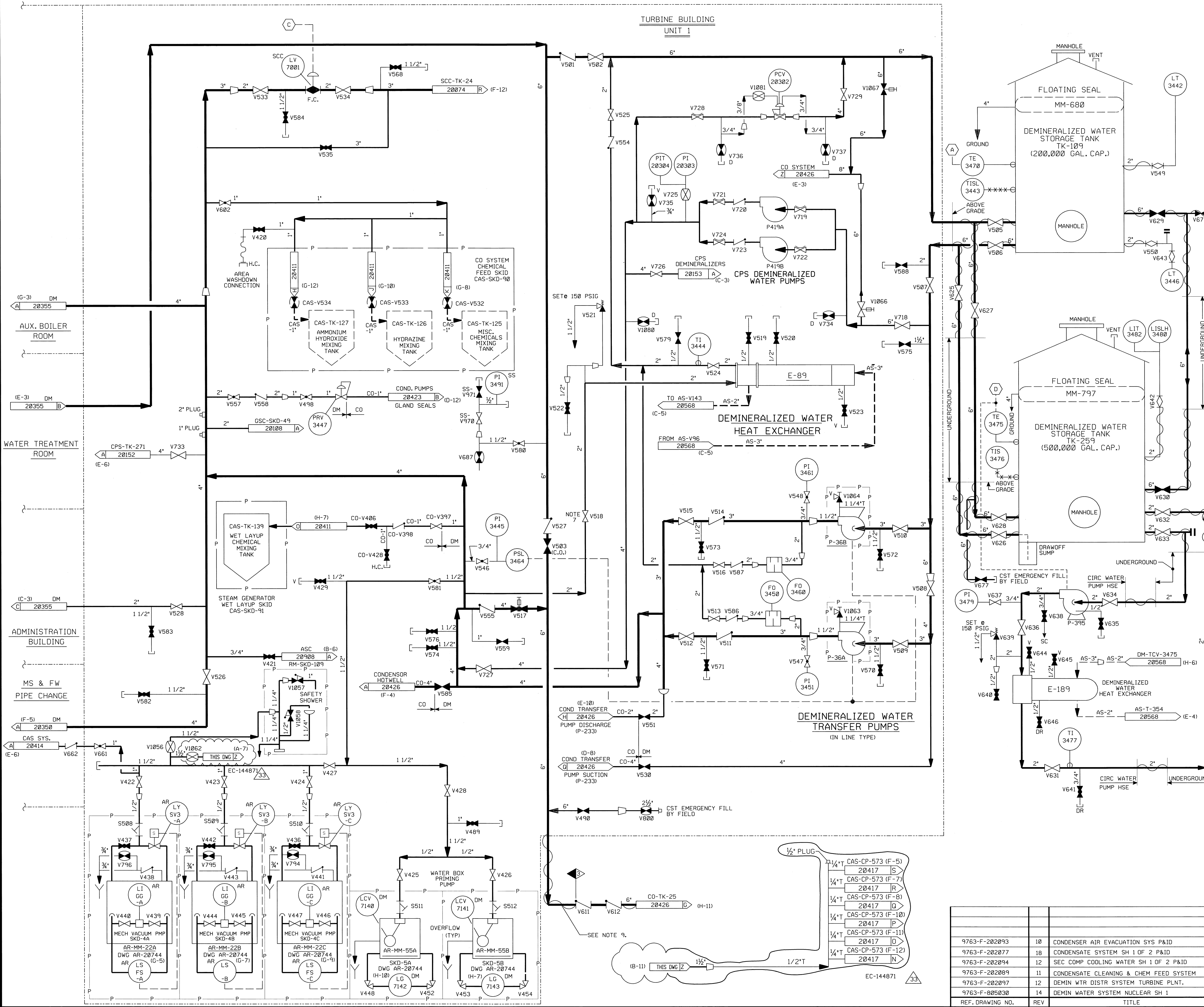
PRIMARY COMPONENT COOLING
THERMAL BARRIER LOOP
DETAIL

PID- 1-CC-B20209

9763-F-804976	10	PCCW THERMAL BARRIER LOOP-P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-DM-B20349

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 20348 & 20350 THROUGH 20356.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTR. ARE SYSTEM PREFIX "DM" UNLESS OTHERWISE NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS & INSTR. ARE SAFETY CLASS "NNS" UNLESS NOTED OTHERWISE.
 4. Δ - DENOTES REVISION LEVEL.
 5. DELETED
 6. INSTRUMENT REFERENCES
 - (A) TO AS-TCV-3470 ON DWG. 20568.
 - (C) TO SCC-LC-7001 ON DWG. 20074.
 - (D) TO DM-TCV-3475 ON DWG. 20568
 7. CAUTION TO BE EXERCISED WHEN THROTTLING THIS VALVE TO REDUCE THE CONTINUOUS RECIRC FLOW IF STEAM IS AVAILABLE FOR HEAT EXCHANGER E-89. THERMAL CONDITIONS TO BE MONITORED TO ASSURE NO ADVERSE CONDITIONS EXIST.
 8. PIPE CAPS MAY BE INSTALLED AT DEMIN WATER HOSE STATIONS AS DEEMED NECESSARY BY STATION STAFF TO PREVENT LEAKAGE.
 9. THIS HEAT TRACING IS NONFUNCTIONAL.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

33	2/19/13	BCS	JM	JWB	INCORP EC-144871 144871	2/19/13
32	4/12/12	BCS	JM	DJM	INCORP EC-250264	
31	3/19/07	BCS	JM	RRB	INCORP MSE 06-132 REV. 0	
30	4/27/06	JM	BCS	DMO	INCORP MMOD 01-501 DCN 00	
29	4/20/05	BCS	JM	PAL	INCORP DCR 97-13 DCN 00, 55, 144, 180 & 201	
28	1/24/05	JM	BCS	RRB	INCORP DCR 04-004 DCN 00 & 06	
27	11/18/04	JM	BCS	DJM	INCORP CR 05-00453 REV. 00	
26	10/28/04	BCS	JM	RRB	PARTIAL INCORP DCR 04-004 DCN 00	
25	2/28/03	BCS	JM	MRB	INCORP CR 04-09047 REV. 0	
24	10/1/02	JM	BCS	MPW	INCORP MSE 01-0306 REV. 0	
23	3/14/02	JM	BCS	MPW	INCORP CR 01-04634 REV 00 & ECA 99/117432A	
22	11/2/01	BCS	JLS	MPW	REINCORP MMOD 00-0534 DCN 00 AND CR 02-02972 REV 01	
21	10/23/01	BCS	MPW	GRM	INCORP MSE 01-0271 REV. 0	
20	9/22/98	BCS	MPW	RSG	INCORP MMOD 00-534 DCN-00	
19	6/9/98	BCS	MPW	RSG	INCORP MMOD 96-636 DCN-00	
18	5/22/98	BCS	DWS	RSG	PARTIAL INCORP MMOD 96-636 DCN 00-PARTIAL	
17	5/20/98	DRL	BCS	RSG	REINCORP MMOD 96-636 DCN 00	
16	7/30/97	MPW	BCS	VWS	INCORP MMOD 96-550 DCN 01	
15	11/20/96	MPW	BCS	DJM	INCORP DCR 95-038 DCN 0, 02 & 04	
14	10/23/95	MPW	DWS	MPW	INCORP MMOD 95-625 CA-0	
13	10/23/95	BCL	MPW	GRM	INCORP DCR 94-027 CA-0	
12	8/3/94	DWS	BCL	WZF	INCORP DCR 930007 CA*	
11	5/9/94	BCL	JWB	HWM	INCORP MMOD 94-519 CA0	
10	3/31/93	MRB	BCL	JCM	INCORP MMOD 92-553 CA0	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION	

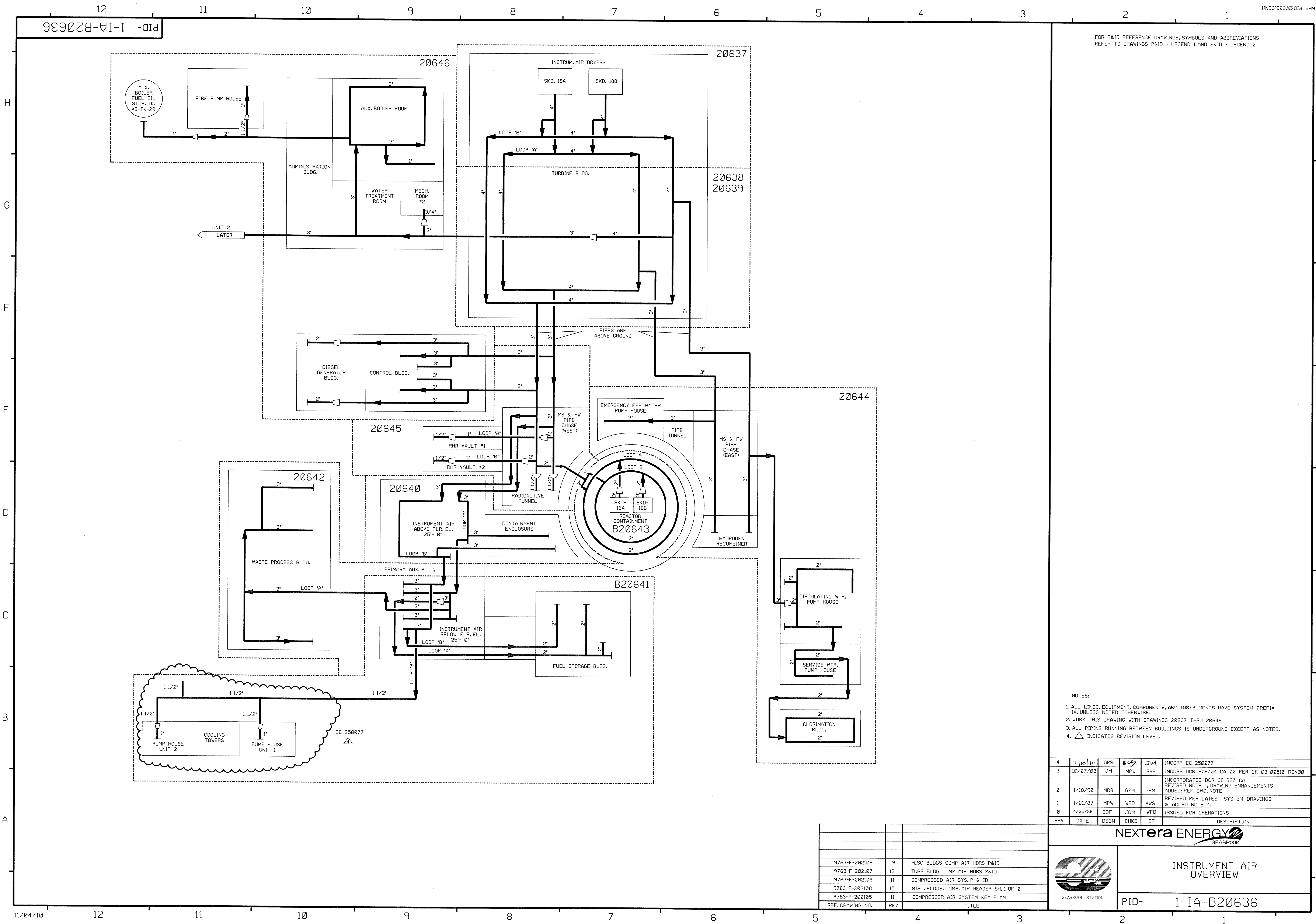
NEXTERA ENERGY
SEABROOK



DEMINERALIZED WATER
DISTRIBUTION SYSTEM
TURBINE BLDG

PID- 1-DM-B20349

REF. DRAWING NO.	REV	TITLE
9763-F-202093	10	CONDENSER AIR EVACUATION SYS P&ID
9763-F-202077	18	CONDENSATE SYSTEM SH 1 OF 2 P&ID
9763-F-202094	12	SEC COMP COOLING WATER SH 1 OF 2 P&ID
9763-F-202089	11	CONDENSATE CLEANING & CHEM FEED SYSTEM
9763-F-202097	12	DEMIN WTR DISTR SYSTEM TURBINE PLNT.
9763-F-805030	14	DEMIN WATER SYSTEM NUCLEAR SH 1

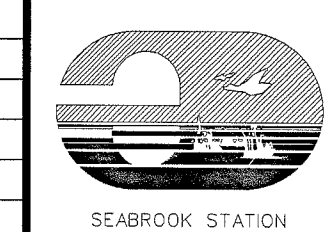


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- 1. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 - 2. WORK THIS DRAWING WITH DRAWINGS 20637 THRU 20646
 - 3. ALL PIPING RUNNING BETWEEN BUILDINGS IS UNDERGROUND EXCEPT AS NOTED.
 - 4. INDICATES REVISION LEVEL.

4	11/10/10	GPS	BOS	JM	INCRP EC-250077
3	10/27/03	JM	MPW	RRB	INCRP DCR 90-004 CA 00 PER CR 03-00510 REV00
2	1/18/90	MRB	OPM	GRM	INCORPORATED DCR 86-320 CA REVISED NOTE 1, DRAWING ENHANCEMENTS ADDED; REF DWG. NOTE
1	1/21/87	MPW	WRD	VWS	REVISED PER LATEST SYSTEM DRAWINGS & ADDED NOTE 4.
0	4/25/86	DBF	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

REF. DRAWING NO.	REV	TITLE
9763-F-202109	9	MISC. BLDGS. COMP. AIR HDRS. P&ID
9763-F-202107	12	TURB. BLDG. COMP. AIR HDRS. P&ID
9763-F-202106	11	COMPRESSED AIR SYS. P & ID
9763-F-202108	15	MISC. BLDGS. COMP. AIR HEADER SH. 1 OF 2
9763-F-202105	11	COMPRESSOR AIR SYSTEM KEY PLAN



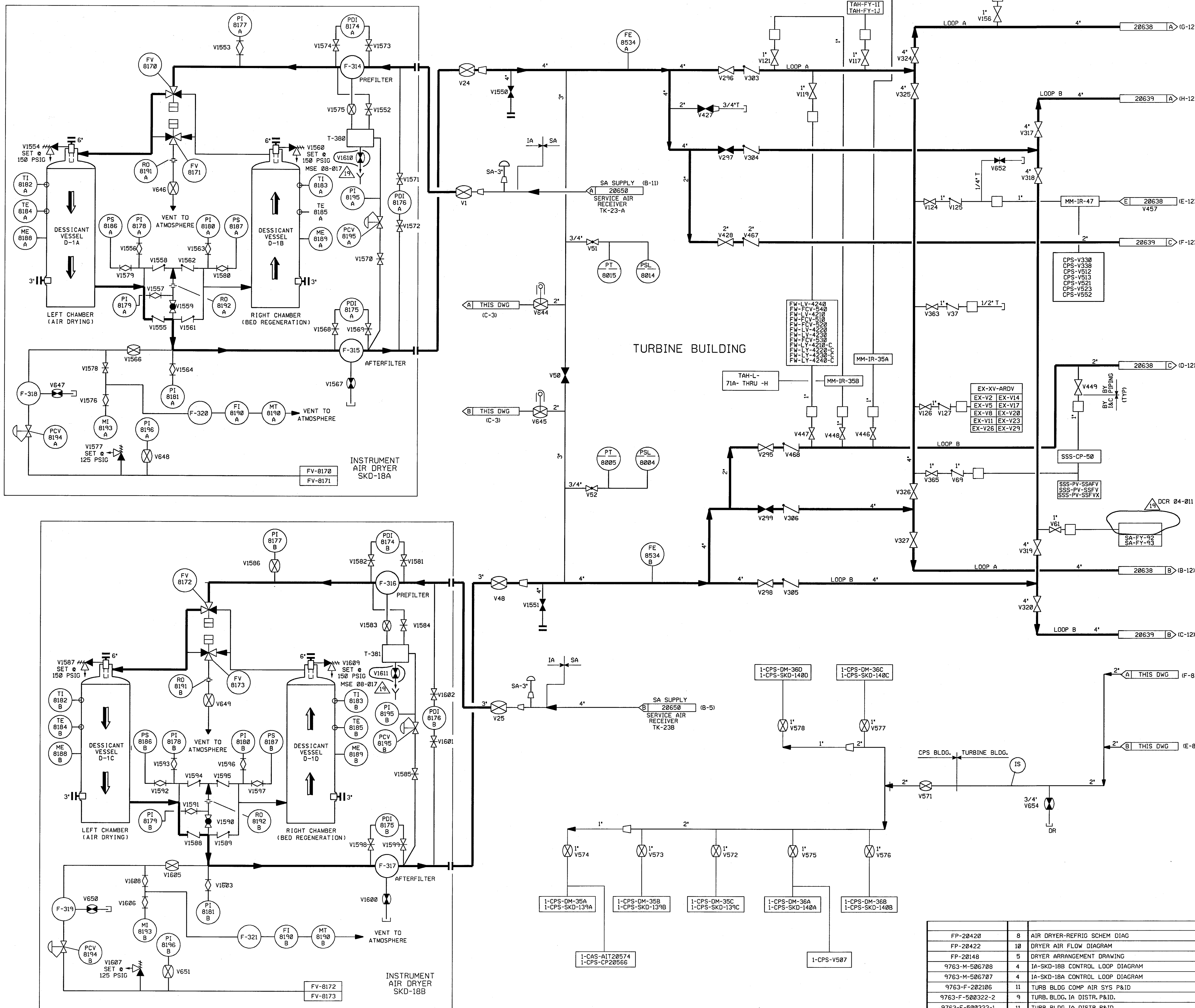
NEXTERA ENERGY
SEABROOK

INSTRUMENT AIR
OVERVIEW

PID- 1-IA-B20636

PID-1-1A-B20637

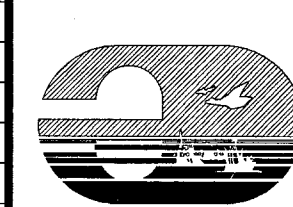
FOR P & ID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P & ID-LEGEND 1 AND P & ID-LEGEND 2



- NOTES:
1. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 2. WORK THIS DRAWING WITH DRAWINGS 20636 AND 20638 THRU 20646.
 3. DENOTES DUAL AIR FILTER.
 4. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS.
 5. P&ID SHOWN FOR INSTR. AIR DRYERS 18A & B DEPICTS AIR SIDE ONLY. FOR REFRIGERATION SIDE OF DRYERS REFER TO FP20420.
 6. INSTRUMENTATION ON THIS DWG DOWNSTREAM OF THE PIPING ROOT VALVE CONNECTIONS HAS NOT BEEN FIELD VERIFIED; EXCEPT V447, V448, V446, V117, V156, V121, V119, & SUPPLY TO IA-MM-759.
 7. INDICATES REVISION LEVEL.
 8. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

19	6/5/08	JM	APS	DEA	INCCORP DCR 04-011 DCN 00 & MSE 08-017 REV 00
18	11/30/05	JM	BCS	DEA	INCCORP CR 05-09387 REV 00, REINCCORP DCR 92-004 CA00
17	4/19/05	BCS	JM	PAL	INCCORP DCR 97-13 DCN 50, 55, 174
16	12/17/02	BCS	JM	MKC	INCCORP DCR 00-0014 DCN-00, 01, 02, 07
15	10/31/02	BCS	MPW	MKC	INCCORP DCR 00-0014, DCN-11
14	10/04/02	BCS	MPW	MKC	PARTIAL INCCORP DCR 00-0014, DCN-00
13	9/30/02	BCS	MPW	MKC	PARTIAL INCCORP DCR 00-0014, DCN-00
12	8/21/02	BCS	MPW	MKC	PARTIAL INCCORP DCR 00-0014, DCN-00
11	5/22/01	BCS	MPW	MKC	INCCORP ECA 99/1172678
10	6/15/00	BCS	MPW	JCM	INCCORP DCR 98-41 DCN-00
9	6/16/97	MPW	DWS	DJM	REINCCORP DCR 930016 CA*1
8	1/31/96	BCS	MPW	RSO	INCCORP MMOD 95-570 CA-0
7	3/24/94	DWS	BCL	WFS	INCCORP DCR 930016 CA*1
6	11/10/92	MKB	DWS	IV	INCCORP DCR 92-004 CA0
5	10/29/90	MKB	DSB	BCL	INCCORP MMOD 90-601 CA00
4	8/11/88	GPM	APL	RRC	INCCORP DCR 86-341CA4; REVISED NOTE 6 ADDED DISCIPLINE BOUNDARY
3	12/28/87	MPW	BCL	DJM	INCCORP ECA 99/117378C, PROVIDED LINE SIZES FOR SKID PIPING; ADDED COUPLINGS, FLANGES & MISC. ITEMS PER F.P. ADDED CONTINUATION FLAG COORDINATES; ADDED NOTES 5, 6 & 7.
2	10/28/87	MAP	BCL	RRC	FLANGES ADDED, V449 RELOCATED PER NAY WALKDOWN; ADDED LINE SIZES TO SKID PIPING; ADDED REF. DWGS.
1	6/27/86	JDM	WRD	RRC	
0	4/25/86	DBF	VNK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

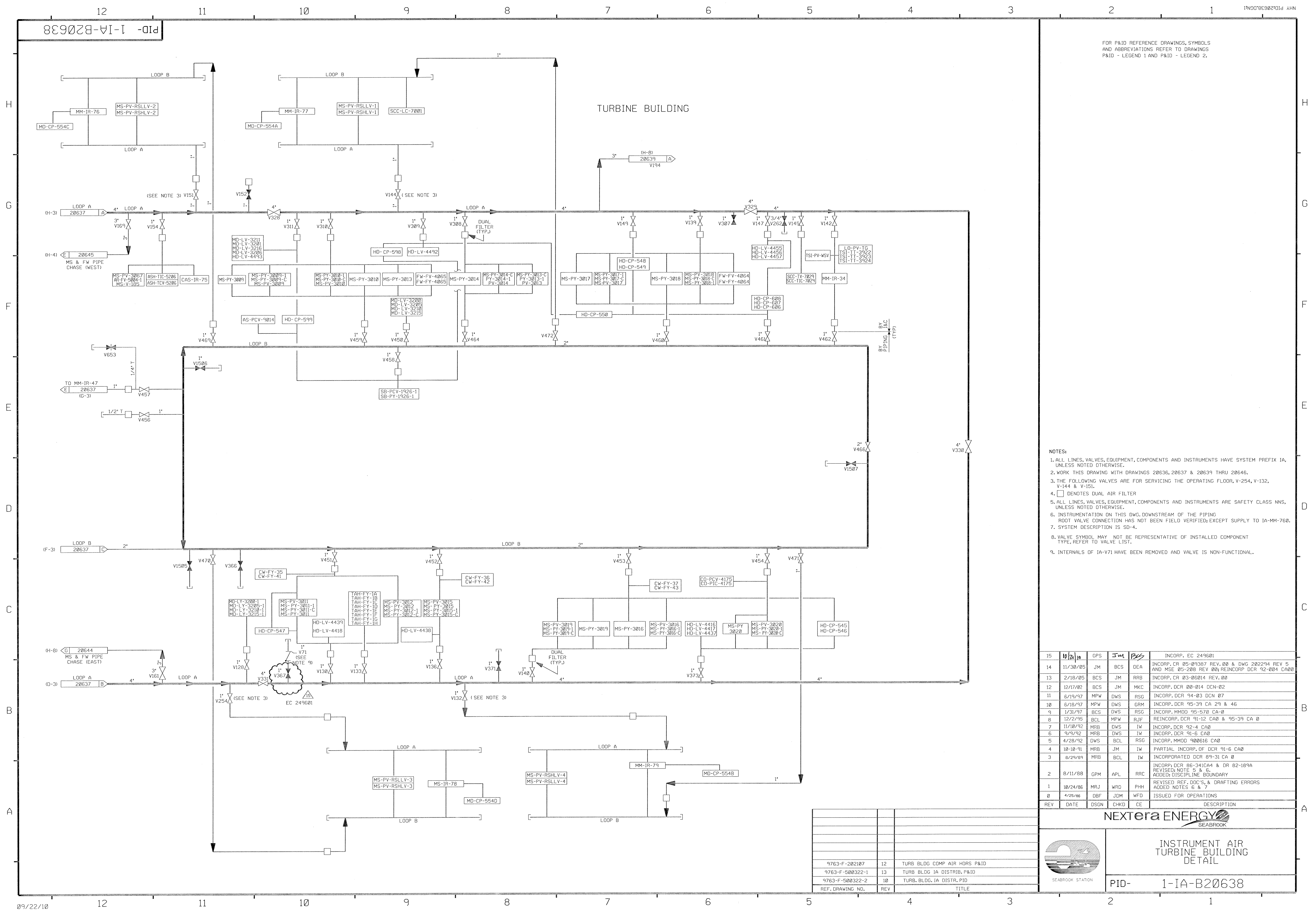
FPL ENERGY Seabrook Station



INSTRUMENT AIR
TURBINE BUILDING
DETAIL

PID- 1-1A-B20637

REF. DRAWING NO.	REV	TITLE
FP-20420	8	AIR DRYER-REFRIG SCHEM DIAG
FP-20422	10	DRYER AIR FLOW DIAGRAM
FP-20148	5	DRYER ARRANGEMENT DRAWING
9763-M-506708	4	IA-SKD-18B CONTROL LOOP DIAGRAM
9763-M-506707	4	IA-SKD-18A CONTROL LOOP DIAGRAM
9763-F-202106	11	TURB BLDG COMP AIR SYS P&ID
9763-F-500322-2	9	TURB. BLDG. IA DISTR. P&ID.
9763-F-500322-1	11	TURB. BLDG. IA DISTR. P&ID.
9763-F-202107	12	TURB. BLDG. COMP. AIR HORS. P&ID.

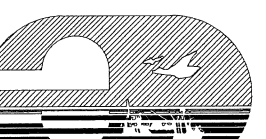


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. ALL PIPING, VALVES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 2. WORK THIS DRAWING WITH DRAWINGS 20636 THRU 20638, & 20640 THRU 20646.
 3. DENOTES DUAL AIR FILTER.
 4. ALL PIPING, VALVES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. DELETED
 6. INDICATES REVISION LEVEL
 7. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.
 8. INDICATES INSTRUMENTATION DOWNSTREAM OF PIPING ROOT VALVE HAS BEEN VERIFIED, SEE INSTRUMENT AIR DETAIL DRAWING 1-NHY-550007.

15	10/3/12	JM	BLS	DA	INCORP. EC276031
14	10/17/06	BCS	JM	DOD	INCORP. DCR 05-004 DCN-01
13	4/22/05	BCS	GPS	PAL	INCORP. DCR 97-13 DCN-00, 50, DCR 02-016 DCN-12, DCR 02-015 DCN-00
12	2/18/05	BCS	JM	RRB	INCORP. CR 03-00747, 03-00749, 03-06014, 03-04137, 03-06016, 05-01992
11	2/7/05	BCS	JM	PAL	INCORP. DCR 97-13, DCN-124
10	11/11/00	MPW	DWS	STB	INCORP. MM00 99-511 DCN 00 7 06
9	6/18/97	MPW	DWS	GRM	INCORP. MM00 96-550 DCN 01, DCR'S 92-59 CA 0, 95-39 CA 29 & DCN
8	1/31/96	BCS	MPW	RSB	INCORP. MM00 95-570 CA0
7	11/6/92	MRB	BCL	RSB	INCORP. DCR 92-20, CA-06 AND DCR 91-40 CA0,1
6	11/21/90	WDS	RRC	BEB	INCORP. DCR 90-027 CA02
5	10/12/90	MRB	FCB	ES	INCORP. DCR 87-138 CA0
4	3/31/90	MRB	HP	RRC	INCORP. DCR 90-9 CA0 DELETED: NOTE 5
3	12/29/89	MRB	HP	WFD	INCORP. MM00 89-546 CA02 REVISED NOTE 4
2	11/26/86	WDS	WRD	RRC	REMOVED CHANGE ITEM 1 PER ASBUILT CONDITION, REMOVED CHG ITEM 2-DETAIL WAS FOR UNIT 2 ONLY, REVISED DRAFTING ERRORS, REINSTATED V-485 PER DR 02/18/94, ADDED CONT DWG REF COORD. & NOTE 5 & 6.
1	6/23/86	CB	VNK	RRC	REVISED PER DR 02/18/94
0	4/25/86	CB	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY
SEABROOK

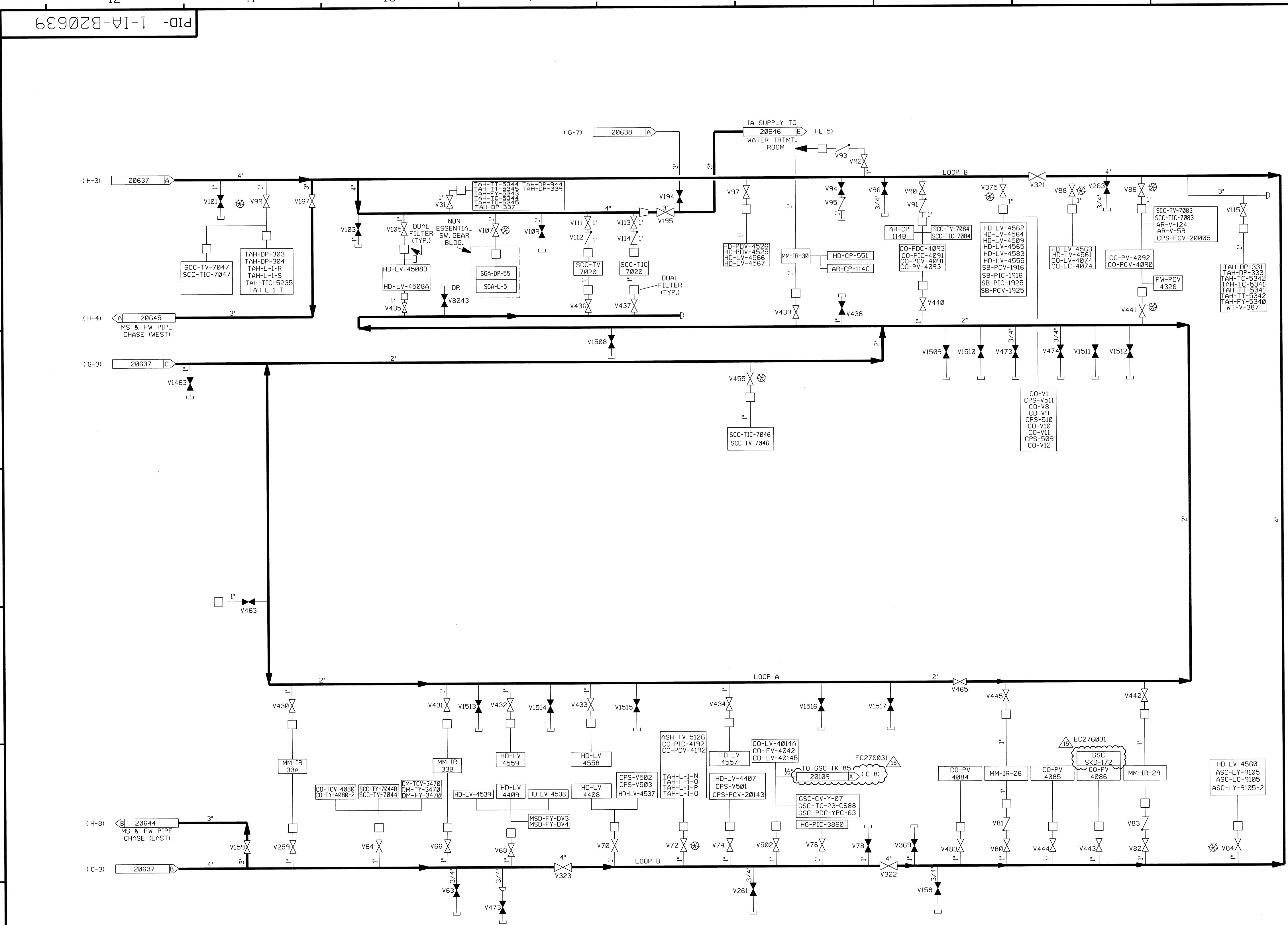


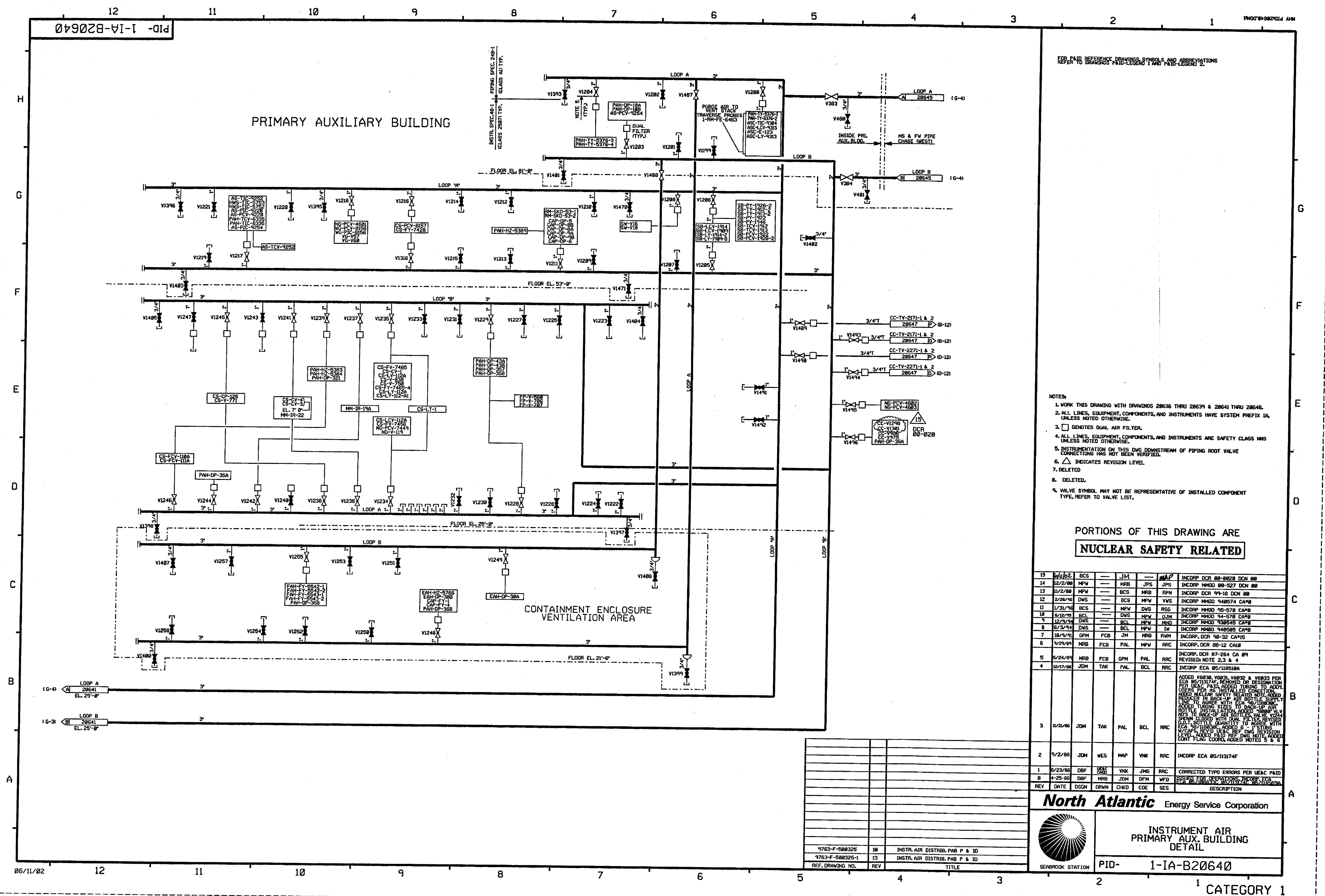
SEABROOK STATION

INSTRUMENT AIR
TURBINE BUILDING
DETAIL

PID- 1-IA-B20639

9763-F-202107	12	TURBINE BUILDING COMP AIR HORS P & ID
9763-F-500322-2	10	TURBINE BUILDING IA DISTR. PID.
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 28636 THRU 28639 & 28641 THRU 28648.
ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1A, UNLESS NOTED OTHERWISE.
2. ☐ DENOTES DUAL AIR FILTER.
3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
4. INSTRUMENTATION ON THIS DWG DOWNSTREAM OF PIPING ROOT VALVE CONNECTIONS HAS NOT BEEN VERIFIED.
5. INDICATES REVISION LEVEL.
6. DELETED
7. DELETED.
8. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE. REFER TO VALVE LIST.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

15	6/11/82.	BCS	---	JM	---	MAP	INCORP DCR 00-9822 DCN 00
14	12/2/80	MPW	---	MRB	JPS	JPS	INCORP MMDO 00-527 DCN 00
13	11/2/80	MPW	---	BCS	MRB	RPN	INCORP DCR 99-18 DCN 00
12	2/28/76	MPW	---	BCS	MPW	VWS	INCORP MMDO 940574 CA#8
11	1/31/76	DWS	---	MPW	DWS	RSG	INCORP MMDO 95-578 CA#8
10	6/12/76	BCL	---	DWS	MPW	DJM	INCORP MMDO 94-574 CA#8
9	12/2/76	MRB	---	BCL	MPW	NMD	INCORP MMDO 930945 CA#8
8	6/3/74	DWS	---	BCL	MPW	IV	INCORP MMDO 940528 CA#8
7	10/9/71	GPM	FCB	JM	MRB	RWM	INCORP. DCR 90-32 CA#15
6	9/29/69	MRB	FCB	PAL	MPW	RRR	INCORP. DCR 68-12 CA#18
5	5/24/69	MRB	FCB	GPM	PAL	RRR	INCORP. DCR 87-264 CA #9 REVISED NOTE 2,3 & 4
4	12/17/68	JDM	TAK	PAL	BCL	RRR	INCORP ECA 05/18159A
3	11/2/66	JDM	TRW	PAL	BCL	RRR	ADDED V9836, V9831, V9832 & V9833 PER ECA 05/113174F. REMOVED OR DESIGNATION ECA PAID. ADDED TURING TO FOOT USERS PER AS INSTALLED CONDITION. ADDED M/LAW SEPARATED NOTES. REDUCED IN BACK-SIP AIR BOTTLE SUPPLY LINE NUMBER FROM 10 TO 8. ADDED TURING TYPES TO BACK-SIP AIR BOTTLE SUPPLY LINE NUMBER. ADDED NPS TO BACK-SIP AIR BOTTLES VALVE V1234 SUM (V1234) AND NPS TO BACK-SIP AIR BOTTLES VALVE V1234. D.O.T.BOTTLE QUANTITY TO AGREE WITH N/A/CAS. REV'D UAC REF. DWG REVISION LEVEL. ADDED TYPE CODES TO AGUED CONT FLAC CORR'D. ADDED NOTES 8 & 9
2	9/2/86	JDM	YES	MAP	VNK	RRR	INCORP ECA 05/113174F
1	6/23/86	DBF	UAC	VNK	JMS	RRR	CORRECTED TYPO ERRORS PER UE&C PAID
0	4-25-86	DBF	MRB	JDM	DFM	WFD	ISSUED FOR OPERATIONS INCORP. ECA 04-26-86/00000000 INCORP. ECA 04-26-86/00000000
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

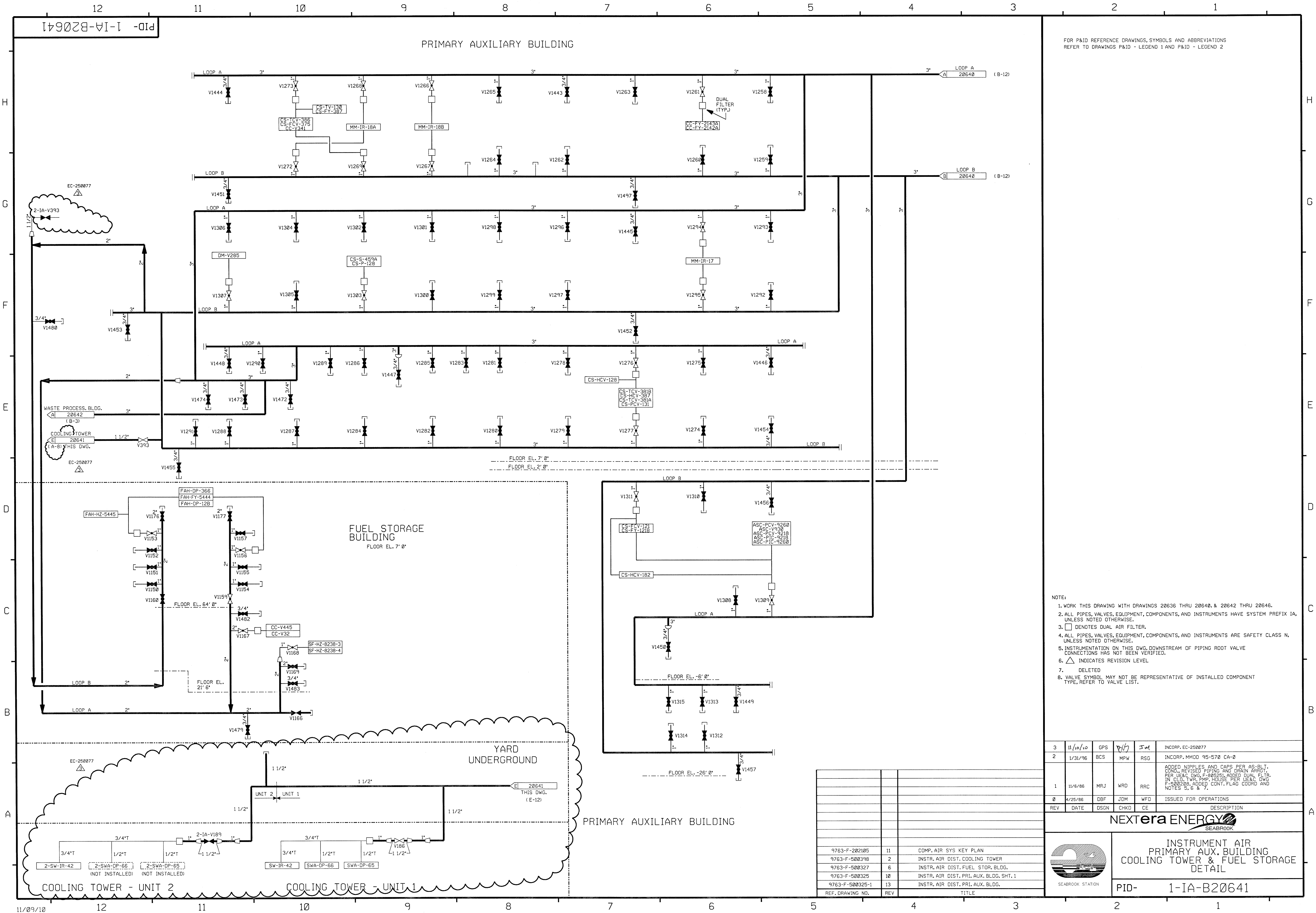
North Atlantic Energy Service Corporation



INSTRUMENT AIR
PRIMARY AUX. BUILDING
DETAIL

PID- 1-IA-B20640

1 CATEGORY 1

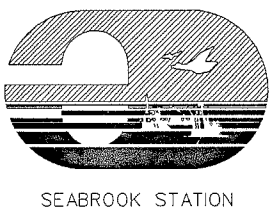


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTE:
- 1. WORK THIS DRAWING WITH DRAWINGS 20636 THRU 20640, & 20642 THRU 20646.
 - 2. ALL PIPES, VALVES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX 1A, UNLESS NOTED OTHERWISE.
 - 3. DENOTES DUAL AIR FILTER.
 - 4. ALL PIPES, VALVES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS N, UNLESS NOTED OTHERWISE.
 - 5. INSTRUMENTATION ON THIS DWG. DOWNSTREAM OF PIPING ROOT VALVE CONNECTIONS HAS NOT BEEN VERIFIED.
 - 6. INDICATES REVISION LEVEL.
 - 7. DELETED
 - 8. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

3	11/10/10	GPS	MPW	JM	INSTR. AIR DIST. COOLING TOWER
2	1/31/96	BCS	MPW	RSG	INSTR. AIR DIST. FUEL STOR. BLDG.
1	11/6/86	MRJ	WRO	RRC	INSTR. AIR DIST. PRI. AUX. BLDG. SHT. 1
0	4/25/86	DBF	JDM	WFD	INSTR. AIR DIST. PRI. AUX. BLDG.
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

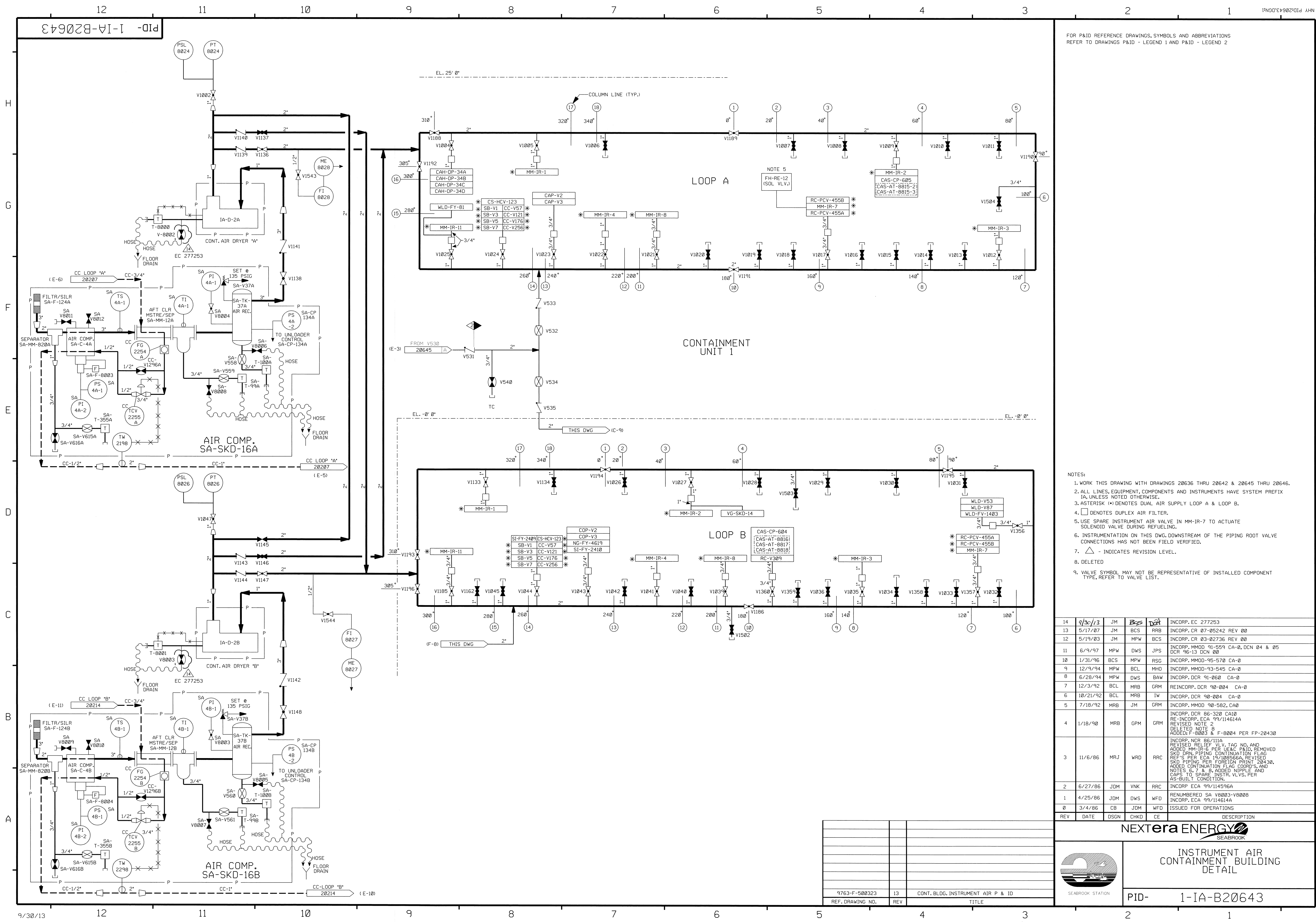
NEXTERA ENERGY
SEABROOK

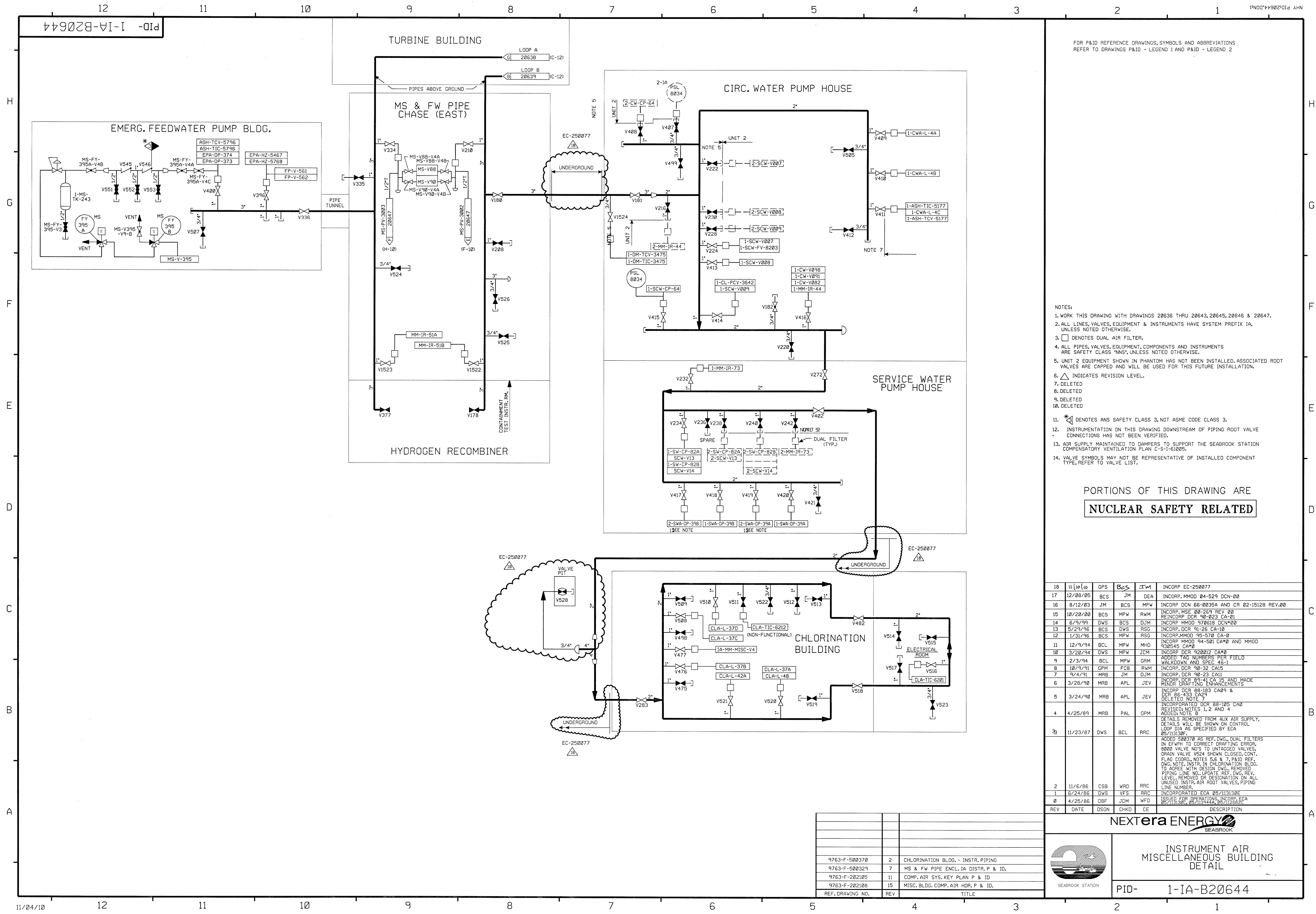


INSTRUMENT AIR
PRIMARY AUX. BUILDING
COOLING TOWER & FUEL STORAGE
DETAIL

PID- 1-IA-B20641

REF. DRAWING NO.	REV	TITLE
9763-F-282105	11	COMP. AIR SYS KEY PLAN
9763-F-500398	2	INSTR. AIR DIST. COOLING TOWER
9763-F-500327	6	INSTR. AIR DIST. FUEL STOR. BLDG.
9763-F-500325	10	INSTR. AIR DIST. PRI. AUX. BLDG. SHT. 1
9763-F-500325-1	13	INSTR. AIR DIST. PRI. AUX. BLDG.





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 20636 THRU 20643, 20645, 20646 & 20647.
 2. ALL LINES, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 3. DENOTES DUAL AIR FILTER.
 4. ALL PIPES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS 3, UNLESS NOTED OTHERWISE.
 5. UNIT 2 EQUIPMENT SHOWN IN PHANTOM HAS NOT BEEN INSTALLED. ASSOCIATED ROOT VALVES ARE CAPPED AND WILL BE USED FOR THIS FUTURE INSTALLATION.
 6. INDICATES REVISION LEVEL.
 7. DELETED
 8. DELETED
 9. DELETED
 10. DELETED
 11. DENOTES ANS SAFETY CLASS 3, NOT ASME CODE CLASS 3.
 12. INSTRUMENTATION ON THIS DRAWING DOWNSTREAM OF PIPING ROOT VALVE CONNECTIONS HAS NOT BEEN VERIFIED.
 13. AIR SUPPLY MAINTAINED TO DAMPERS TO SUPPORT THE SEABROOK STATION COMPENSATORY VENTILATION PLAN C-51-61005.
 14. VALVE SYMBOLS MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

18	11/10/10	GPS	BCS	JM	DEA	INCORP EC-250077
17	12/08/05	BCS	JM	DEA	INCORP, MMOD 04-529 DCN-00	
16	8/12/03	JM	BCS	MPW	INCORP DCN 66-0035A AND CR 02-15128 REV.00	
15	10/20/00	BCS	MPW	RWM	INCORP, MSE 00-269 REV. 00	
14	6/9/99	DWS	BCS	DJM	INCORP MMOD 970618 DCN#00	
13	5/29/96	BCS	DWS	RSG	INCORP, DCR 91-26 CA-10	
12	1/31/96	BCS	MPW	RSG	INCORP, MMOD 95-570 CA-0	
11	12/9/94	BCL	MPW	MHO	INCORP MMOD 94-501 CA#0 AND MMOD 930545 CA#0	
10	3/20/94	DWS	MPW	JCM	INCORP DCR 920012 CA#0	
9	2/3/94	BCL	MPW	GRM	ADDED TAG NUMBERS PER FIELD WALKDOWN AND SPEC 45-1	
8	10/9/91	QPM	FCB	RWM	INCORP, DCR 90-32 CA15	
7	9/4/91	MRB	JM	DJM	INCORP, DCR 90-23 CA11	
6	3/20/90	MRB	APL	JEV	INCORP, DCR 89-41 CA 15 AND MADE MINOR DRAFTING ENHANCEMENTS	
5	3/24/90	MRB	APL	JEV	INCORP DCR 88-183 CA09 & DCR 89-433 CA29 DELETED NOTE 7	
4	4/25/89	MRB	PAL	GPM	INCORPORATED DCR 88-105 CA0 REVISED NOTES 1, 2 AND 4 ADDED NOTE 8	
3	11/23/87	DWS	BCL	RRC	DETAILS REMOVED FROM AUX AIR SUPPLY, DETAILS WILL BE SHOWN ON CONTROL LOOP DIA AS SPECIFIED BY ECA 05/113130F.	
2	11/6/86	CSB	WRD	RRC	ADDED 500370 AS REF. DWG, DUAL FILTERS IN EFWPH TO CORRECT DRAFTING ERROR, 8800 VALVE NDS TO UNTAGGED VALVES, DRAIN VALVE V524 SHOWN CLOSED, CONT. FLAG COORDS, NOTES 5, 6 & 7, P&ID REF. DWG, NOTE, INSTR. IN CHLORINATION BLDG. TO AGREE WITH DESIGN DWG, REMOVED PIPING LINE NO. UPDATE REF. DWG, REV. LEVEL, REMOVED OR DESIGNATION ON ALL UNUSED INSTR. AIR ROOT VALVES, PIPING LINE NUMBER.	
1	6/24/86	DWS	VFS	RRC	ISSUED FOR OPERATIONS, INCORP ECA 05/113130F, 05/113444A, 05/112662C	
0	4/25/86	DBF	JDM	WFD		
REV	DATE	DSGN	CHKD	CE	DESCRIPTION	

NEXTERA ENERGY
SEABROOK



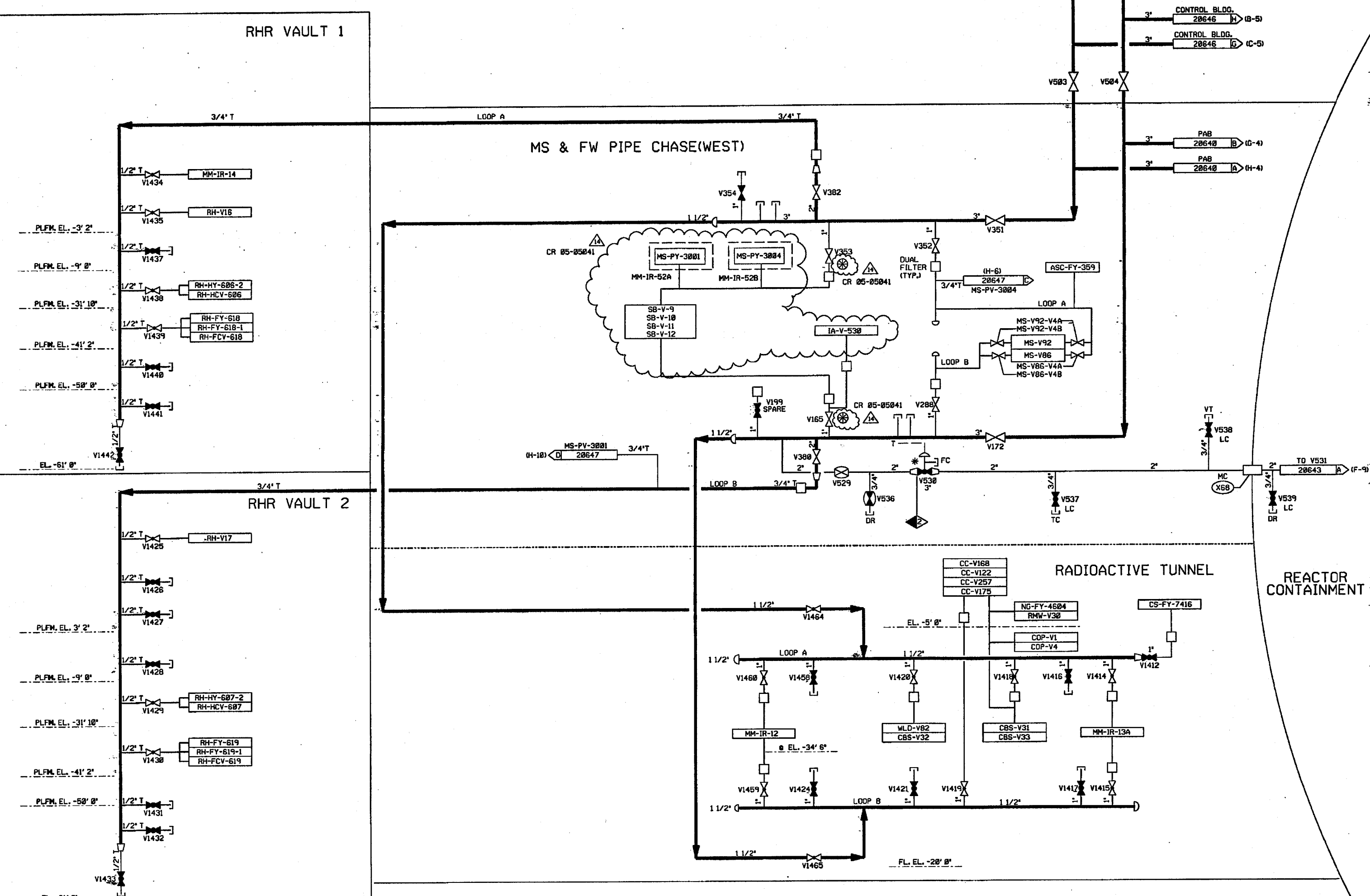
INSTRUMENT AIR
MISCELLANEOUS BUILDING
DETAIL

PID- 1-IA-B20644

REF. DRAWING NO.	REV	TITLE
9763-F-500370	2	CHLORINATION BLDG. - INSTR. PIPING
9763-F-500329	7	MS & FW PIPE ENCL. 1A DISTR. P & ID.
9763-F-202105	11	COMP. AIR SYS. KEY PLAN P & ID
9763-F-202108	15	MISC. BLDG. COMP. AIR HDR. P & ID.

P101-1-IA-B20645


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 20636 THRU 20644, 20646 & 20647.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 3. DENOTES DUAL AIR FILTER.
 4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. INSTRUMENTATION ON THIS DRAWING DOWNSTREAM OF PIPING ROOT VALVE CONNECTIONS HAS NOT BEEN VERIFIED UNLESS NOTED BY . REFER TO DWG 1-NHY-550013 FOR VERIFIED INSTRUMENT DETAILS.
 6. INDICATES REVISION LEVEL.
 7. * INDICATES VALVES SUPPLIED BY WESTINGHOUSE. CR 05-05041
 8. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-885111, UNLESS NOTED OTHERWISE.
 9. DELETED
 10. DELETED
 11. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

14	1/25/06	BCS	JM	JM	REINCORP CR 05-05041 REV.0
13	6/7/05	BCS	JM	RRB	INCORP CR 05-05041 REV.0
12	1/31/05	BCS	MPW	RSG	INCORP MM00 95-570 CA0
11	5/12/05	BCL	DWS	DJM	INCORP MM00 94-570 CA0
10	12/4/04	BCL	MPW	MMD	REINCORP DCR 900004 CA0 AND INCORP MM00 930545 CA0
9	7/18/04	MPW	BCL	JCM	INCORP DCR 85-420 CA 0 AND REINCORP. DCR 90-004 CA 0
8	2/2/04	BCL	MRS	GRM	ADDED TAG NUMBERS PER FIELD WALKDOWN AND SPEC 46-1
7	4/5/03	MRB	BCL	JM	INCORP MM00 92-553 CA0
6	10/21/01	MRB	BCL	IW	INCORP DCR 90-004 CA0
5	10/9/01	MRB	FCB	RWM	INCORP DCR 90-32 CA0
4	8/18/98	MRB	GPM	GRM	REVISED NOTE 4 PER ENG DSGN STD. 31788 SEC. 3.8.
3	11/23/87	DWS	BCL	RRC	DETAILS REMOVED FROM AUX AIR SUPPLY, DETAILS WILL BE SHOWN ON CONTROL LOOP DIAG AS SPECIFIED BY ECA 05-113130F.
2	11/14/86	MRJ	PAL	RRC	ADDED NOTE 6 & CHANGED NOTE 5. ADDED CONT FLAG COORDS, V8834 THRU V8841, NIPPLES & CAPS, ABANDONED CONN'S, ADDITIONAL DUAL FILTERS AND AIR USERS, REVISED LOC OF TAKE-OFFS & TUBING SIZES PER AS-INSTALLED CONDITIONS. INCORP ECA 05/113130F & 74/107155A. CORRECTED DRAFTING ERRORS.
1	6/23/86	DBF	VNK	RRC	INCORPORATED ECA 05/113130F
0	4/25/86	DBF	JDM	WFO	ISSUED FOR OPERATIONS INCORP ECA 05/113130F & 74/107155A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

REF. DRAWING NO.	REV	TITLE
9763-F-202105	11	COMP AIR SYS KEY PLAN P & ID
9763-F-500335	4	RHR VAULTS 1A DISTRIB P & ID
9763-F-500379	4	RADIOACTIVE TUNNEL 1A DISTRIB P & ID
9763-F-500329	7	MS & FW PIPE CHASE 1A DISTRIB P & ID
9763-F-202100	15	MISC BLDGS COMP AIR HEADERS P & ID

**FPL ENERGY**

Seabrook Station

INSTRUMENT AIR
MISCELLANEOUS BUILDING
DETAILS

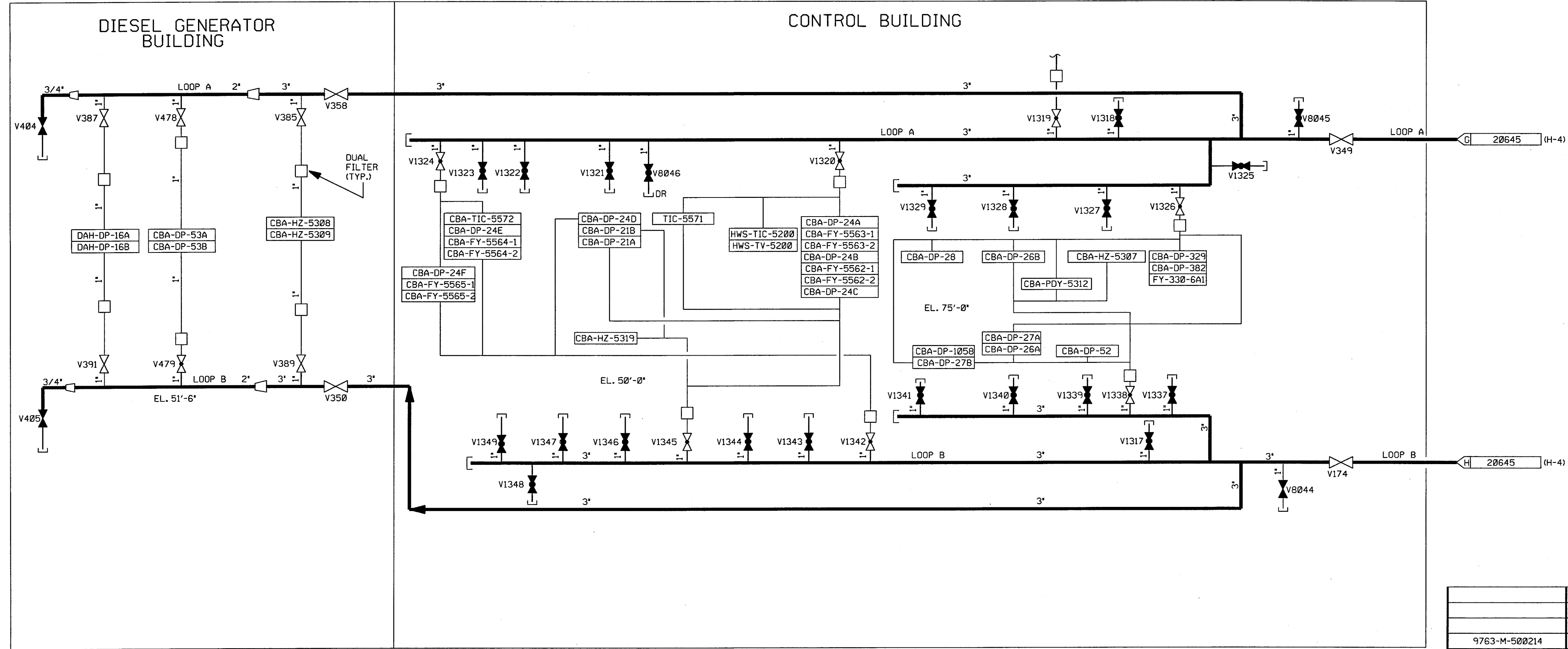
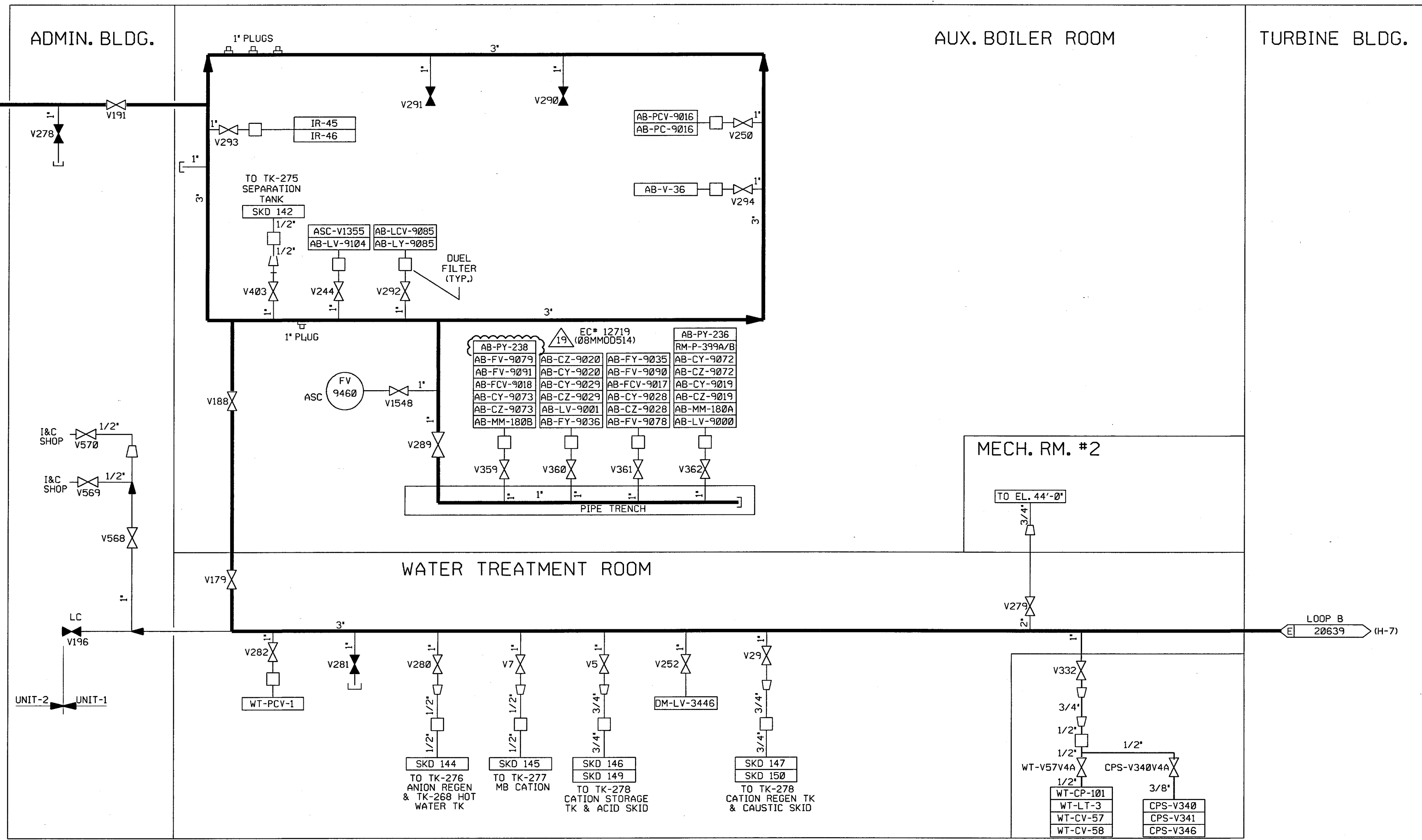
P101-1-IA-B20645

PID-1-1A-B20646

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

H
G
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D
C
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B
A



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20636 THRU 20645.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1A, UNLESS NOTED OTHERWISE.
 3. DENOTES DUAL AIR FILTER.
 4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. INSTRUMENTATION ON THIS DWG DOWNSTREAM OF THE PIPING ROOT VALVE CONNECTION HAS NOT BEEN FIELD VERIFIED.
 6. INDICATES REVISION LEVEL.
 7. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

19	3/17/01	JM	BCS	648	INCORP EC* 12719 (08MM00514 DCN 00)
18	2/26/09	JM	BCS	TMD	PARTIAL INCORP EC* 12719 (08MM00514 DCN 00)
17	4/19/05	BCS	JM	PAL	INCORP DCR 97-13 DCN-00,55,90,222
16	4/19/04	BCS	JM	SAK	PARTIAL INCORP DCR 97-13 DCN-55
15	10/10/01	BCS	JM	JCM	INCORP MMOD 01-0542 DCN*01
14	3/24/00	DWS	BCS	JMS	INCORP DCR 980039 DCN*00
13	3/7/00	MPW	DWS	DJM	INCORP DCR 970012 DCN 20
12	2/11/00	DWS	BCS	MPW	PARTIAL INCORP DCR 980039 DCN*00
11	5/27/99	MPW	BCS	DJM	INCORP DCR 97-12 DCN 00
10	11/17/98	DWS	BCS	RSG	INCORP MMOD 980639 DCN*00
9	11/7/97	MPW	BCS	RCP	INCORP DCR 94-51 DCN 03
8	8/3/94	BCS	MPW	RSG	INCORP MMOD 95-570 CA-0
7	8/3/94	DWS	BCL	WFZ	INCORP DCR 930007 CA-0 & 1
6	5/20/94	BCL	DWS	JCM	INCORP MMOD 93-564 CA-0,04
5	4/20/92	MRB	BCL	RRB	INCORP MMOD 91-515 C0
4	12/15/89	MRB	PAL	IW	INCORPORATED DCR 87-405 CA
3	9/29/89	MRB	APL	JWS	INCORPORATED DCR 86-709 CA 21
REVISED NOTE 4					
2	11/12/86	WDS	WRD	RRC	REMOVED VALVES V388, 386, 390, 392, 500, 501-NOT INSTALLED. ADDED VALVES V8044, 8045, 8046 & CAPS PER ASBUILT CONDITION.
					DELETED NIPPLE & CAP FROM VALVE 290 TO 3" HEADER IN AUX BOILER ROOM. DELETED NOTE: ALL VALVES TO BE LOCATED IN DIESEL GEN BLDG. ADDED INDICATION FOR VALVES TO BE NORMALLY CLOSED FOR V1327, 1328, 1337, 1344, 1321, 1339, 1322, 1323 & 1324. REVISED VALVES V350 & V358 TO GATE VALVES. REVISED REF DWG REVISIONS. ADDED DWG COORD'S. REVISED INSTR NO TO AB-LV-9000.
1	6/23/86	DBF	VNK	RRC	ADDED DESIGNATION FOR UNDERGROUND PIPING. VALVES CHANGED TO GATE & ADDED CAP PER WALKDOWN.
0	4/25/86	DBF	JDM	WFO	ISSUED FOR OPERATIONS, INCORP. ECA 19/1125001A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

REF. DRAWING NO.	REV	TITLE
9763-M-500214	1	FIRE PUMP HOUSE, 1A DISTR. P & ID.
9763-F-202109	9	MISC. BLDG. COMP. AIR HORS. P & ID.
9763-C-500324	7	CONTROL BLDG. INSTR. AIR DISTRIB P & ID
9763-F-202105	11	COMP. AIR SYS. KEY PLAN P & ID.
9763-M-500326	6	DIESEL GEN. BLDG. 1A P & ID.
9763-C-500330	9	ADMIN. & SERV. BLDG. AUX. BLR. & WTR TRT

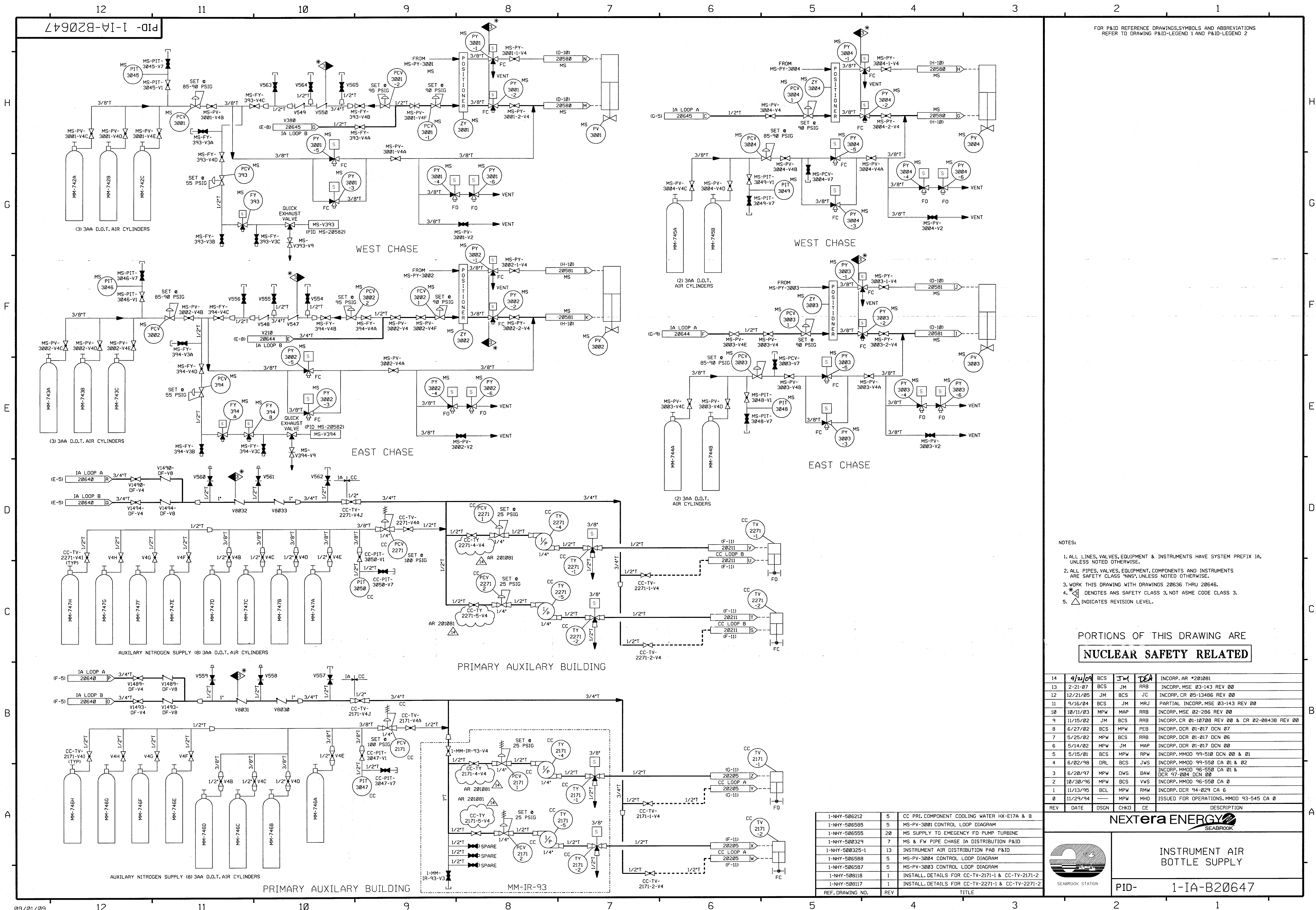
FPL ENERGY Seabrook Station

INSTRUMENT AIR MISCELLANEOUS BUILDINGS DETAILS

PID- 1-1A-B20646

PID-1-1A-B20647

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



- NOTES:
1. ALL LINES, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX IA, UNLESS NOTED OTHERWISE.
 2. ALL PIPES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS 'NNS', UNLESS NOTED OTHERWISE.
 3. WORK THIS DRAWING WITH DRAWINGS 20636 THRU 20646.
 4. * DENOTES ANS SAFETY CLASS 3, NOT ASME CODE CLASS 3.
 5. Δ INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

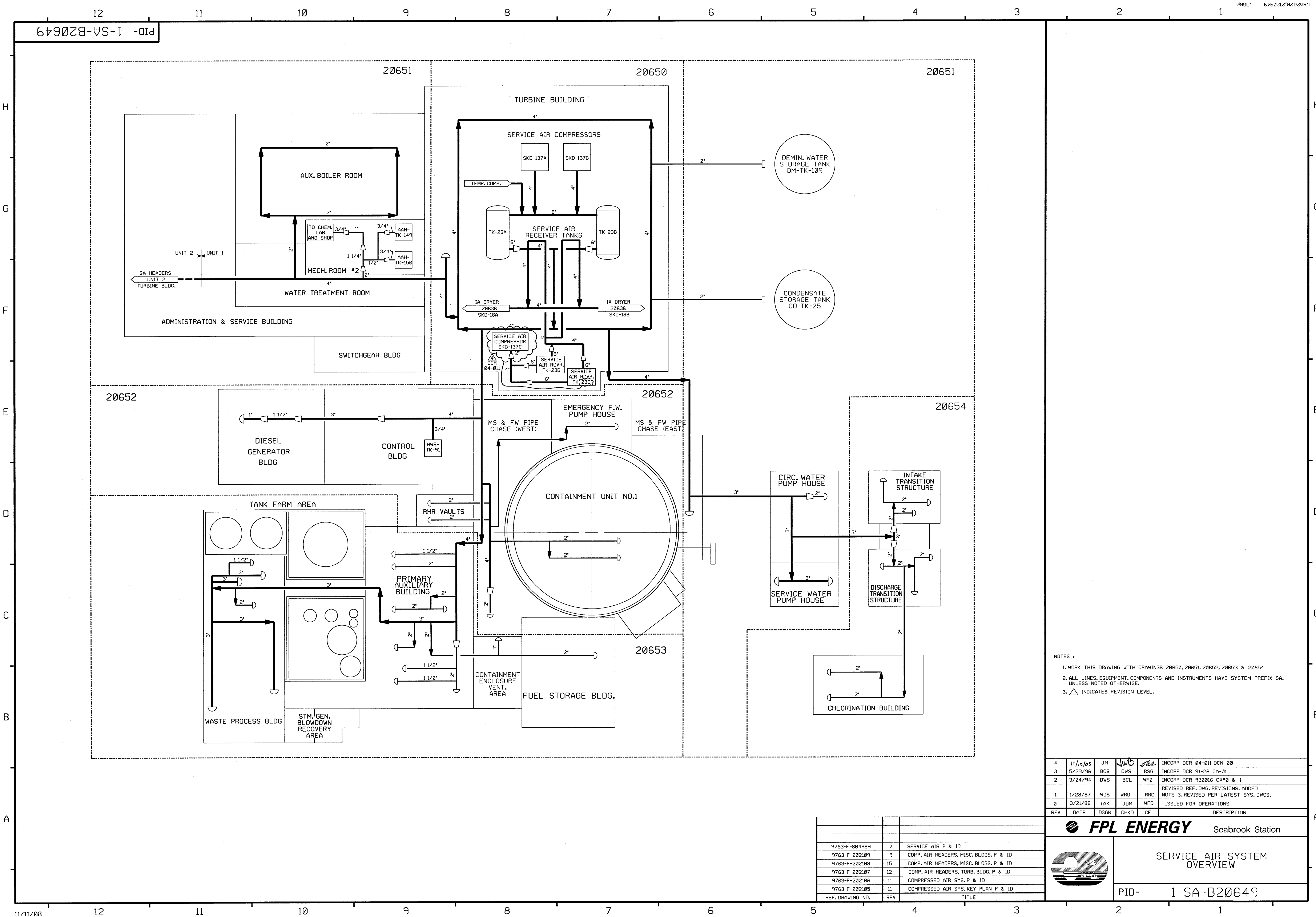
REV	DATE	DSN	CHKD	CE	DESCRIPTION
14	9/21/09	BCS	JW	DEA	INCORP. AR #201081
13	2-21-07	BCS	JM	RRB	INCORP. MSE 03-143 REV 00
12	12/21/05	JM	BCS	JC	INCORP. CR 05-13486 REV 00
11	9/16/04	BCS	JM	MRJ	PARTIAL INCORP. MSE 03-143 REV 00
10	10/11/03	MPW	MAP	RRB	INCORP. MSE 02-286 REV 00
9	11/15/02	JM	BCS	RRB	INCORP. DCR 01-017 DCN 07
8	6/27/02	BCS	MPW	RRB	INCORP. DCR 01-017 DCN 06
7	5/25/02	MPW	BCS	RRB	INCORP. DCR 01-017 DCN 05
6	5/14/02	MPW	JM	MAP	INCORP. DCR 01-017 DCN 00
5	5/15/01	BCS	MPW	RPW	INCORP. MMOD 99-510 DCN 00 & 01
4	6/02/98	DRL	BCS	JWS	INCORP. MMOD 99-550 CA 01 & 02
3	6/20/97	MPW	DWS	BAW	INCORP. MMOD 96-550 CA 01 & 02
2	10/30/96	MPW	BCS	VWS	INCORP. MMOD 96-550 CA 0
1	11/13/95	BCL	MPW	RHW	INCORP. DCR 94-029 CA 6
0	11/29/94	---	MPW	MHO	ISSUED FOR OPERATIONS, MMOD 93-545 CA 0

NextEra Energy
SEABROOK

**INSTRUMENT AIR
BOTTLE SUPPLY**

PID-1-1A-B20647

REF. DRAWING NO.	REV	TITLE
1-NHY-506212	5	CC P&ID COMPONENT COOLING WATER HX-E17A & B
1-NHY-506585	5	MS-PV-3001 CONTROL LOOP DIAGRAM
1-NHY-506555	20	MS SUPPLY TO EMERGENCY FD PUMP TURBINE
1-NHY-500329	7	MS & FW PIPE CHASE IA DISTRIBUTION P&ID
1-NHY-500325-1	13	INSTRUMENT AIR DISTRIBUTION P&ID
1-NHY-506588	5	MS-PV-3004 CONTROL LOOP DIAGRAM
1-NHY-506587	5	MS-PV-3003 CONTROL LOOP DIAGRAM
1-NHY-508118	1	INSTALL DETAILS FOR CC-TV-2171-1 & CC-TV-2171-2
1-NHY-508117	1	INSTALL DETAILS FOR CC-TV-2271-1 & CC-TV-2271-2



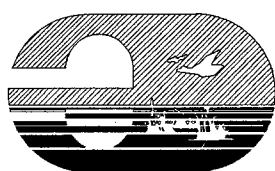
NOTES :

1. WORK THIS DRAWING WITH DRAWINGS 20650, 20651, 20652, 20653 & 20654
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SA, UNLESS NOTED OTHERWISE.
3. Δ INDICATES REVISION LEVEL.

4	11/16/08	JM	WWS	MS	INCRP DCR 04-011 DCN 00
3	5/29/96	BCS	DWS	RSG	INCRP DCR 91-26 CA-01
2	3/24/94	DWS	BCL	WFZ	INCRP DCR 930016 CA#0 & 1
1	1/28/87	WDS	WRD	RRC	REVISED REF. DWG. REVISIONS. ADDED
0	3/21/86	TAK	JDM	WFD	NOTE 3. REVISED PER LATEST SYS. DWGS.
REV	DATE	DCSN	CHKD	CE	ISSUED FOR OPERATIONS
					DESCRIPTION

FPL ENERGY

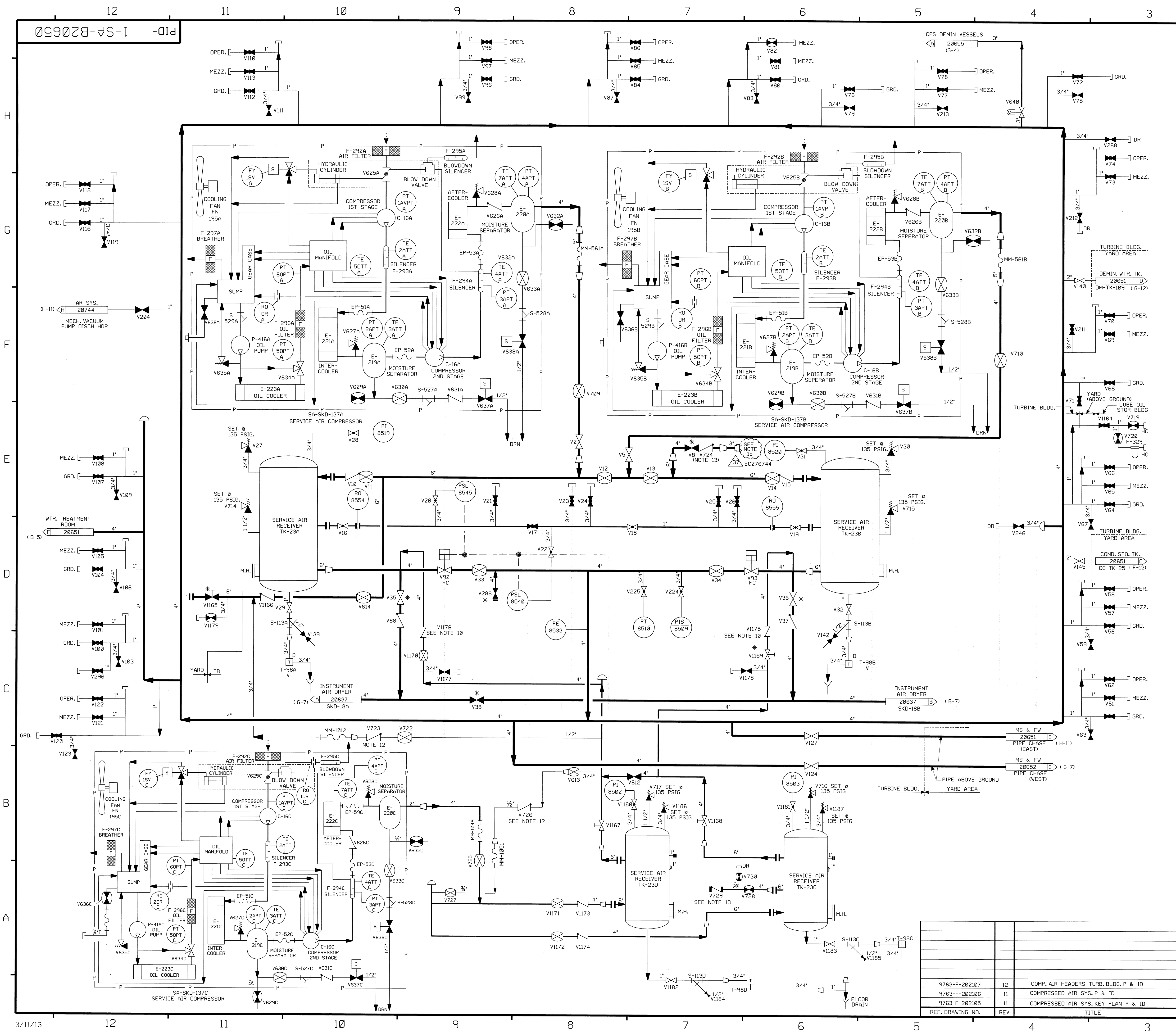
Seabrook Station



SERVICE AIR SYSTEM
OVERVIEW

PID- 1-SA-B20649

9763-F-004989	7	SERVICE AIR P & ID
9763-F-202109	9	COMP. AIR HEADERS, MISC. BLDGS. P & ID
9763-F-202108	15	COMP. AIR HEADERS, MISC. BLDGS. P & ID
9763-F-202107	12	COMP. AIR HEADERS, TURB. BLDG. P & ID
9763-F-202106	11	COMPRESSED AIR SYS. P & ID
9763-F-202105	11	COMPRESSED AIR SYS. KEY PLAN P & ID
REF. DRAWING NO.	REV	TITLE



2

1

IN9005G902013

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

NOTES:

- WORK THIS DRAWING WITH DRAWINGS 20649, 20651, 20652 & 20653.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SA, UNLESS NOTED OTHERWISE.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
- INSTRUMENT REFERENCES:
 (A) TO SCC-V126, FV-7060 (DWG. SCC-20078)
 (B) TO SCC-V129, FV-7061 (DWG. SCC-20078)
 (C) TO SCC-V132, FV-7062 (DWG. SCC-20078)
- ALL PIPING RUNNING BETWEEN BUILDINGS OR TO OUTSIDE EQUIPMENT IS BELOW GROUND EXCEPT AS NOTED.
- △ INDICATES REVISION LEVEL.
- DELETED
- PIPE CAPS OR QUICK DISCONNECTS MAY BE INSTALLED ON SERVICE AIR STATIONS AS DEEMED NECESSARY BY STATION STAFF.
- DELETED
- INTERNALS OF CHECK VALVES, SA-V1175 & V1176 HAVE BEEN REMOVED.
- VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.
- EXCESS FLOW CHECK VALVES I-SA-V-723 & V-726 SEATS IF FLOW EXCEEDS 120 SCFM @ 100 PSIG INLET PRESSURE.
- CHECK VALVE HAS 0.285" HOLE IN DISC TO SUPPORT AUTO START OF PORTABLE COMPRESSOR.
- * THESE VALVES ARE SUBJECT TO A PART SUBSTITUTION AUTHORIZED BY 04MSE147. VALVE SYMBOL MAY NOT REFLECT INSTALLED VALVE TYPE. DRAWING UPDATES WILL BE MADE UPON RECEIPT OF FORM MM 8-4F.
- THIS CONNECTION IS APPROVED FOR A PORTABLE COMPRESSOR INSIDE THE TURBINE BLDG.

EC276744

37	3/11/13	BCS	JM	CR	INCORP EC276744
36	11/12/08	JM	JWB	JET	INCORP MSE 04-147 REV. 00, 02, 03, 04
35	10/16/07	BCS	JM	DEA	INCORP. DCR 04-011 DCN-00, 04, 13 & ASBUILT INFO
34	8/7/07	BCS	JM	MAP	PARTIAL INCORP. MSE 04-147 REV. 00
33	6/21/07	BCS	JM	RWM	INCORP. CR 07-03416 REV. 0
32	10/6/06	BCS	JM	RRB	PARTIAL INCORP. MMOD 04-147 DCN 00
31	7/27/06	BCS	JM	DEA	INCORP. MSE 06-046 DCN-00
30	12/15/05	JM	BCS	DEA	INCORP. MMOD 05-520 DCN 00
29	11/17/05	BCS	JM	DEA	PARTIAL INCORP. MSE 04-147 REV 03
28	10/05/05	BCS	JM	RRB	INCORP. MSE 05-135 REV.00 & REMOVED INCOMPLETE ITEM *1 PER SA OP PROCED. (01042.01 & 03)
27	4/19/05	BCS	JM	RRB	INCORP. DCR-97-13 DCN-00, 54; MMOD 95-570 DCN-00; PARTIAL INCORP. MSE 04-147 REV 00
26	2/27/04	JM	BCS	SAK	INCORP. MSE 03-0180 REV 00, PARTIAL INCORP. DCR 97-13, DCN-00
25	11/3/03	JM	BCS	MR	INCORP. MSE 03-0205 REV 00
24	8/18/03	MPW	JM	JGC	INCORP. MMOD 01-537 DCN 00
23	7/14/03	BCS	JM	JGC	PARTIAL INCORP. MMOD 01-537 DCN 00
22	6/17/03	MPW	JM	JC	PARTIAL INCORP. MMOD 01-537 DCN 00
21	12/19/02	BCS	JM	DEA	INCORP. MSE 02-0216 REV.0
20	5/29/02	BCS	MPW	RRB	INCORP. MSE 00-0247 REV.0, CR 01-09349
19	9/15/00	BCS	MPW	JCM	INCORP. MMOD 99-626 DCN-00
18	8/22/00	BCS	DWS	JCM	PARTIAL INCORP. MMOD 99-626 DCN-00
17	1/20/97	BCS	DWS	RWM	INCORP. MMOD 96-669 CA-0
16	1/31/96	BCS	MPW	RSG	INCORP. MMOD 95-570 CA-0
15	9/14/95	BCL	MPW	JCM	INCORP. MMOD 95-552 CA-0
14	1/17/95	BCL	DWS	WFZ	INCORP. DCR 93-16 CA-21
13	3/24/93	MRB	BCL	WFZ	INCORP. DCR 93-16 CA-01
12	3/24/93	BCL	MRB	JCM	REINCORP. DCR-91-31, CA-0
11	2/12/93	BCL	MRB	JCM	INCORP. DCR-91-31, CA-0
10	1/25/93	BCL	MRB	JCM	PARTIAL INCORP. DCR-91-31, CA-0
9	5/11/92	MRB	BCL	GPM	INCORP. MMOD 90-582 CA00
8	7/18/91	MRB	JM	GRM	INCORP. MMOD 90-582 CA00
7	11/7/88	GPM	MRB	RRR	INCORP ECA 74-113173B REVISED; NOTE 3
6	8/26/87	MPW	BCL	RRR	ADDED: FILTERS 8000, 8001 & 8002 PER FP 20441, V204 PER I/E & C P & ID 202093, NOTE 9 & INCOMPLETE ITEM 1.
5	6/1/87	MPW	DWS	VFS	CHANGED VALVES V1180 & V1181 FROM GATE TO GLOBE VALVES PER ECA 99/17267
4	3/21/86	TAK	JDM	WFO	CHANGED VALVES V293, V294 & V291 FROM GATE TO GLOBE VALVES AND CORRECTED VALVE TAG NO. PER ECA 99/1022C.
3					ISSUED FOR OPERATIONS & INCORP. ECA 74-113173B
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY

SEABROOK

SEABROOK STATION

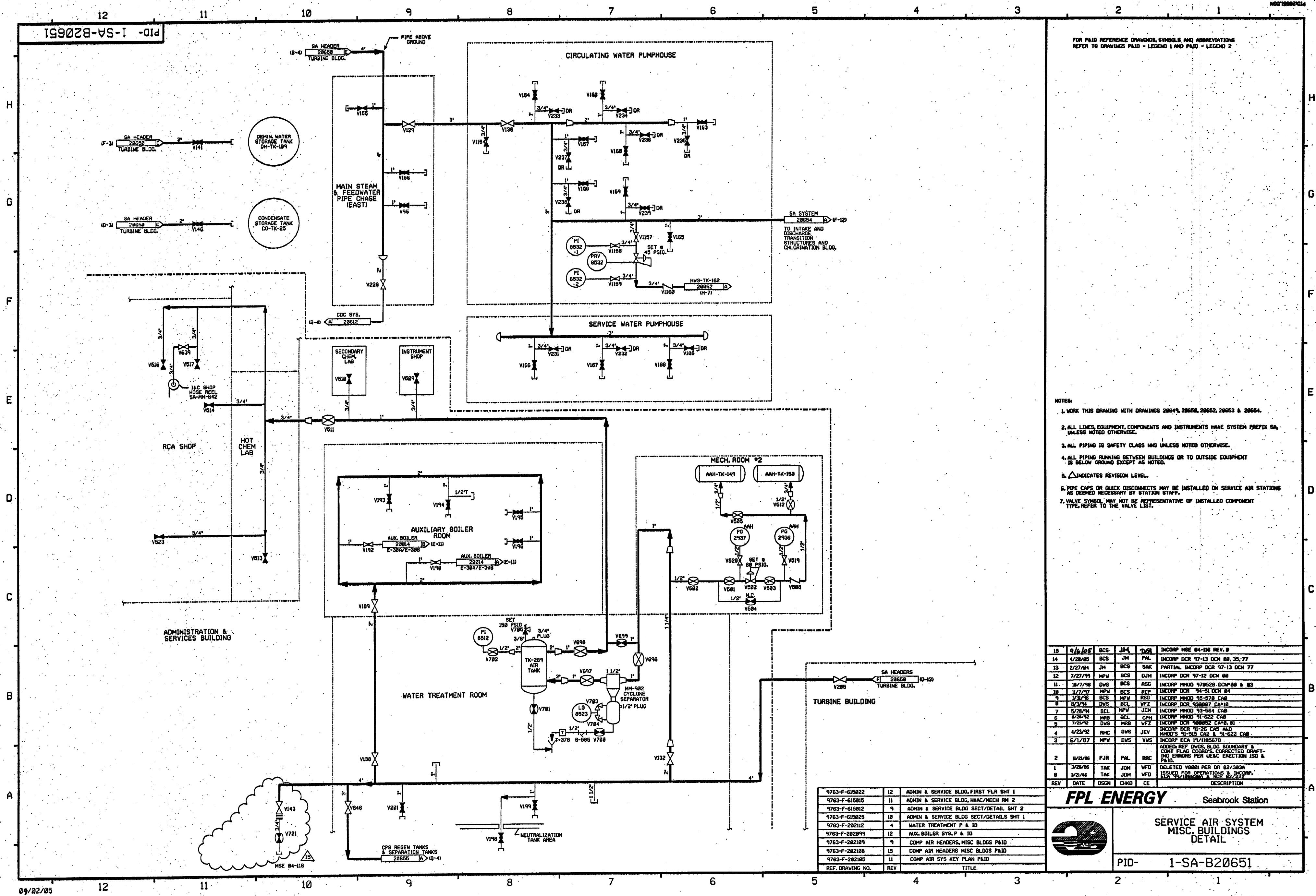
SERVICE AIR SYSTEM
TURBINE BUILDING
DETAIL

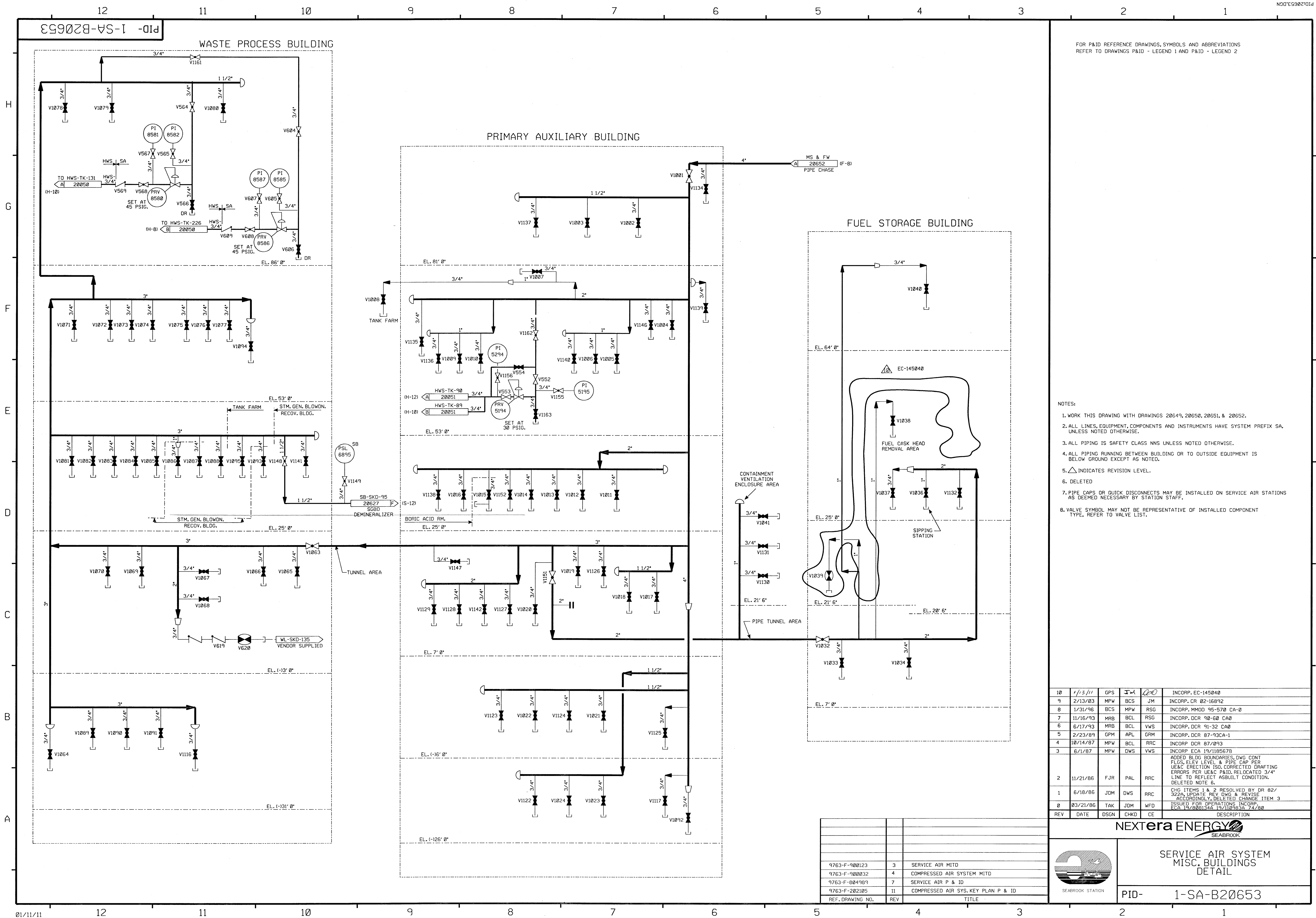
PID-

1-SA-B20650

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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 20649, 20650, 20651, & 20652.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SA, UNLESS NOTED OTHERWISE.
 - 3. ALL PIPING IS SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 - 4. ALL PIPING RUNNING BETWEEN BUILDING OR TO OUTSIDE EQUIPMENT IS BELOW GROUND EXCEPT AS NOTED.
 - 5. Δ INDICATES REVISION LEVEL.
 - 6. DELETED
 - 7. PIPE CAPS OR QUICK DISCONNECTS MAY BE INSTALLED ON SERVICE AIR STATIONS AS DEEMED NECESSARY BY STATION STAFF.
 - 8. VALVE SYMBOL MAY NOT BE REPRESENTATIVE OF INSTALLED COMPONENT TYPE, REFER TO VALVE LIST.

10	1/13/11	GPS	IM	QO	INCORP. EC-145040
9	2/13/03	MPW	BCS	JM	INCORP. CR 02-16892
8	1/31/96	BCS	MPW	RSG	INCORP. MMDO 95-570 CA-0
7	11/16/93	MRB	BCL	RSG	INCORP. DCR 98-60 CA0
6	6/17/93	MRB	BCL	VWS	INCORP. DCR 91-32 CA0
5	2/23/89	GPM	APL	GRM	INCORP. DCR 87-93CA-1
4	10/14/87	MPW	BCL	RRC	INCORP. DCR 87-093
3	6/1/87	MPW	DWS	VWS	INCORP. ECA 19/110567B
2	11/21/86	FJR	PAL	RRC	ADDED BLDG BOUNDARIES, DWG CONT FLOS, ELEV LEVEL & PIPE CAP PER UE&C ERECTION 150, CORRECTED DRAFTING ERRORS PER UE&C P&ID, RELOCATED 3/4" LINE TO REFLECT ASBUILT CONDITION, DELETED NOTE 6.
1	6/18/86	JDM	DWS	RRC	CHG ITEMS 1 & 2 RESOLVED BY DR 02/322A, UPDATE REV DWG & REVISE ACCORDINGLY, DELETED CHANGE ITEM 3
0	03/21/86	TAK	JDM	WFD	ISSUED FOR OPERATIONS, INCORP. ECA 19/888134A 19/110938A 74/80
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

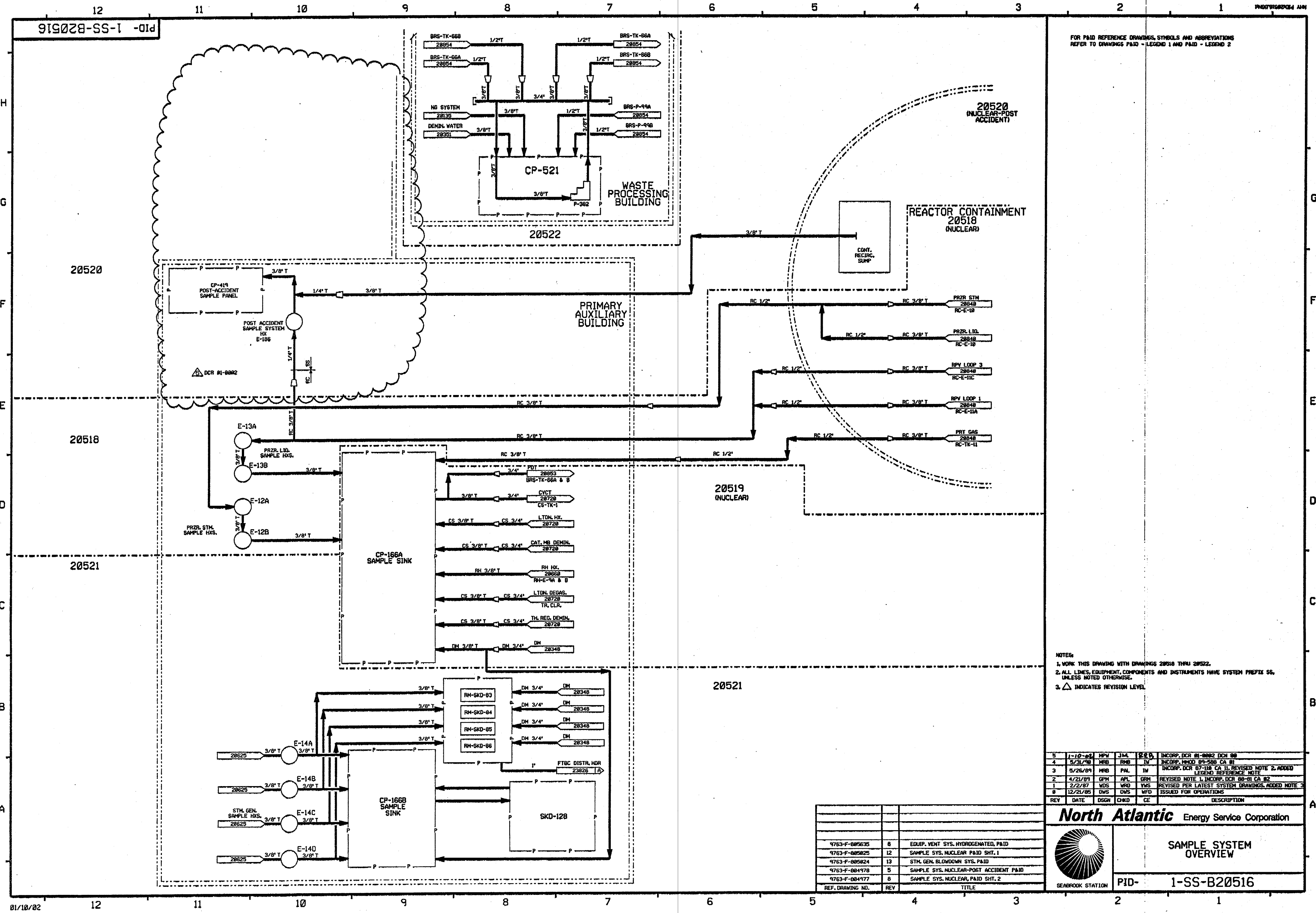
9763-F-900123	3	SERVICE AIR MITD
9763-F-900032	4	COMPRESSED AIR SYSTEM MITD
9763-F-004989	7	SERVICE AIR P & ID
9763-F-202105	11	COMPRESSED AIR SYS. KEY PLAN P & ID
REF. DRAWING NO.	REV	TITLE



NEXTERA ENERGY
SEABROOK

SERVICE AIR SYSTEM
MISC. BUILDINGS
DETAIL

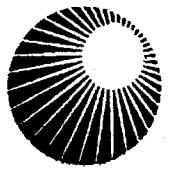
PID- 1-SA-B20653



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

- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 20518 THRU 20522.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SS, UNLESS NOTED OTHERWISE.
 - 3. Δ INDICATES REVISION LEVEL.

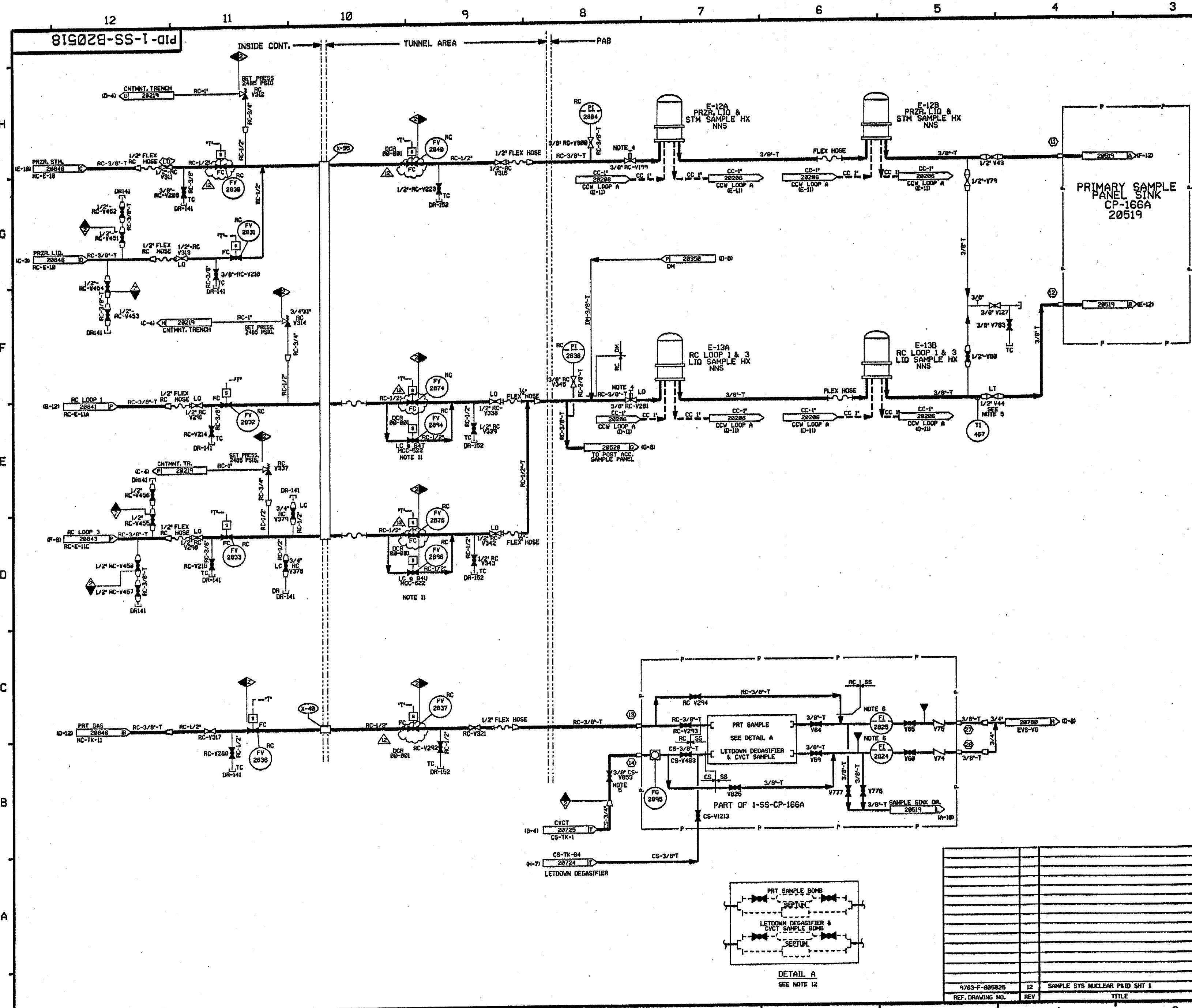
5	1-10-82	MPV	JMA	225	INCORP. DCR 81-0002 DCM 08
4	5/31/78	NRB	RMB	IV	INCORP. HXCD 81-550 CA 81
3	5/26/81	NRB	PNL	IV	INCORP. DCR 87-118 CA 11 REVISED NOTE 2 ADDED
2	4/21/81	GRM	AFL	GRM	REVISED NOTE 1 INCORP. DCM 88-81 CA 82
1	2/2/87	WDS	WMD	WMS	REVISED PER LATEST SYSTEM DRAWINGS ADDED NOTE 3
0	12/21/85	DWS	DWS	MFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**North Atlantic** Energy Service Corporation

SAMPLE SYSTEM OVERVIEW

PID- 1-SS-B20516

REF. DRAWING NO.	REV	TITLE
9763-F-805635	8	EQUIP. VENT. SYS. HYDROGENATED, PAID
9763-F-805825	12	SAMPLE SYS. NUCLEAR PAID SHT. 1
9763-F-805824	13	STM. GEN. BLOWDOWN SYS. PAID
9763-F-804978	5	SAMPLE SYS. NUCLEAR-POST ACCIDENT PAID
9763-F-804977	8	SAMPLE SYS. NUCLEAR, PAID SHT. 2



- FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS PABD - LEGEND 1 AND PABD - LEGEND 2
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20516, 20519 THRU 20522.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SS, UNLESS NOTED OTHERWISE.
 3. ALL SAMPLE INSTRUMENTATION INDICATION SHALL BE LOCATED ON A PANEL AT THE SAMPLE SINK.
 4. REACH ROD OPERATED FROM THE SAMPLE ROOM SIDE OF THE SAMPLE ROOM-SAMPLE WALL.
 5. THIS VALVE SHALL BE ADJUSTED AND SET TO GIVE A 0.5 GPM SAMPLE FLOW FROM RPV LOOP 1 OR 2.
 6. ALL FLOW INDICATORS ON SS-CP-166A & B HAVE INTEGRAL NEEDLE VALVES WHICH ARE NOT SHOWN ON THE P&ID.
 7. ○ TYPICAL CONNECTION IDENTIFICATION FOR SS-CP-166A & B
 8. DELETED
 9. △ INDICATES REVISION LEVEL
 10. VENTS, DRAINS AND TEST CONNECTION CODEBREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE FOR 1-WAY-08011 UNLESS OTHERWISE NOTED.
 11. VALVE DISABLED IN THE LOCKED CLOSED POSITION BY LOCKING BREAKERS B41 & B41 OPEN.
 12. SAMPLE BOMBS AND SEPTUMS ARE INSTALLED DURING SAMPLING FUNCTIONS. EITHER THE SAMPLE BOMB OR THE SAMPLE SEPTUM MAY BE USED, SEE DETAIL A (W-18).

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

12	11/2/82	BCS	---	JM	---	INCORP DCR 88-081 DCMH
11	6/13/81	DMS	---	HPV	---	INCORP DCR 87-088 DCMH
10	12/2/80	DMS	---	BCL	---	INCORP DCR 86-085 DCMH
9	1/21/80	HRB	---	BCL	---	INCORP DCR 85-085 DCMH
8	6/23/79	HRB	---	JM	---	INCORP DCR 84-085 DCMH
7	10/25/78	HRB	---	JM	---	INCORP DCR 83-085 DCMH
6	6/21/78	HRB	---	JM	---	INCORP DCR 82-085 DCMH
5	12/28/77	HRB	---	FCB	---	INCORP DCR 81-085 DCMH
4	2/1/77	GPH	---	HRB	---	INCORP DCR 80-085 DCMH
3	3/22/76	GPH	---	HRB	---	INCORP DCR 79-085 DCMH
2	10/1/75	JM	---	DMS	---	INCORP DCR 78-085 DCMH
1	6/22/75	DMS	---	WES	---	INCORP DCR 77-085 DCMH
0	1/3/75	DMS	---	HRB	---	INCORP DCR 76-085 DCMH
REV	DATE	DSGN	DRWN	CHKD	CDR	SES

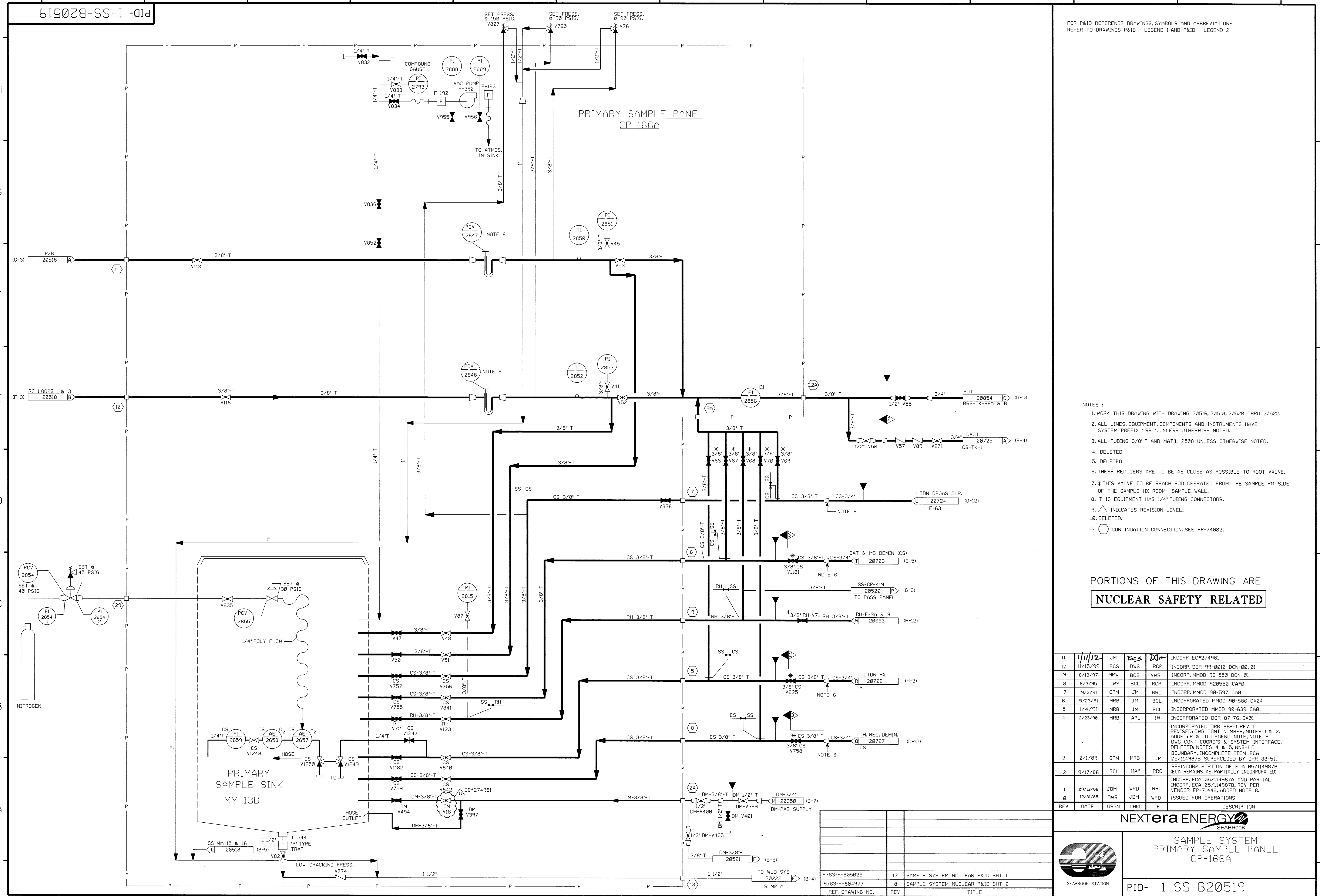
North Atlantic Energy Service Corporation

SEABROOK STATION



SAMPLE SYSTEM (NUCLEAR-NORMAL OPERATION) DETAIL

PID- 1-SS-B20518

9763-F-005025 12 SAMPLE SYS NUCLEAR P&ID SHT 1

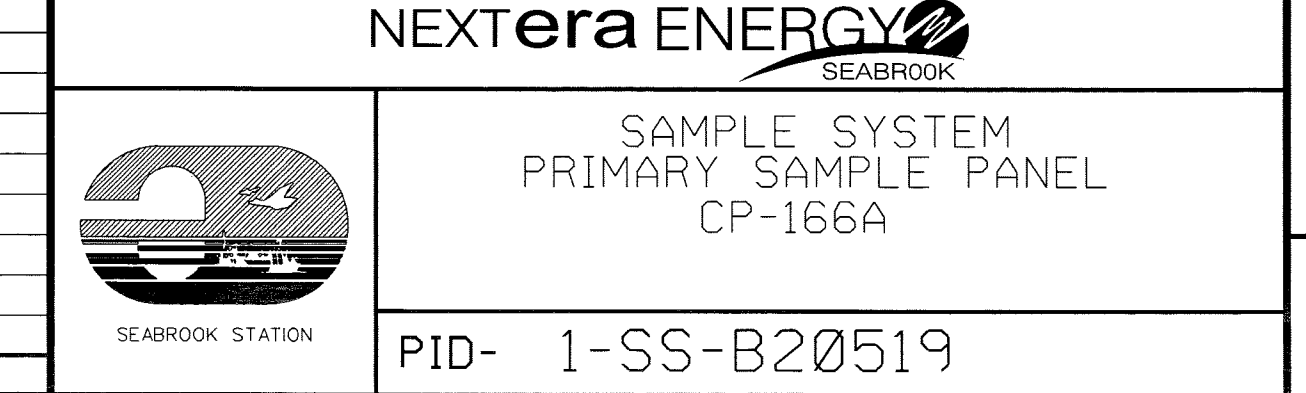


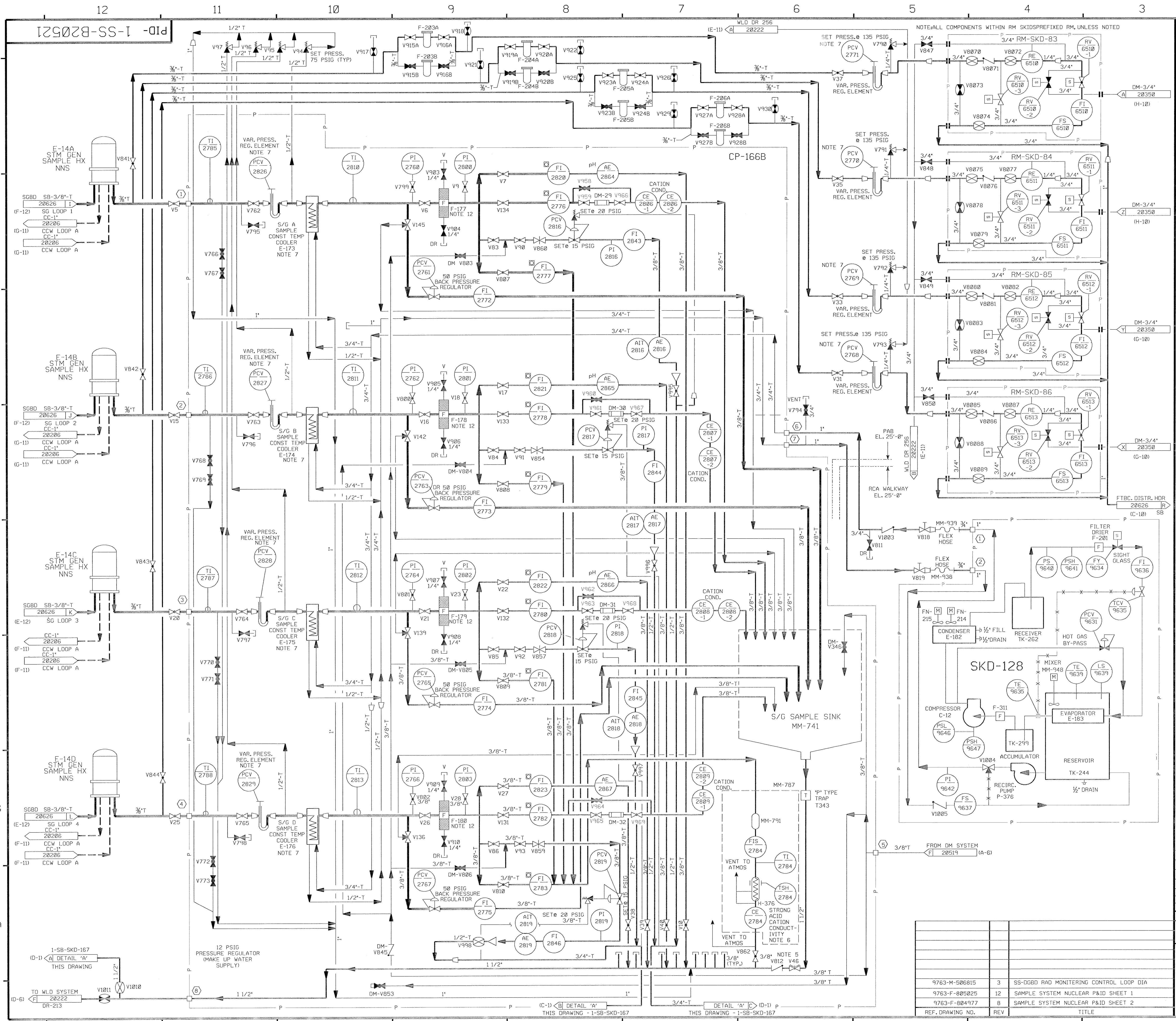
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES :
1. WORK THIS DRAWING WITH DRAWING 20516, 20518, 20520 THRU 20522.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX * SS , UNLESS OTHERWISE NOTED.
 3. ALL TUBING 3/8" T AND MAT'L 2508 UNLESS OTHERWISE NOTED.
 4. DELETED
 5. DELETED
 6. THESE REDUCERS ARE TO BE AS CLOSE AS POSSIBLE TO ROOT VALVE.
 7. * THIS VALVE TO BE REACH ROD OPERATED FROM THE SAMPLE RM SIDE OF THE SAMPLE HX ROOM - SAMPLE WALL.
 8. THIS EQUIPMENT HAS 1/4" TUBING CONNECTORS.
 9.  INDICATES REVISION LEVEL.
 10. DELETED.
 11.  CONTINUATION CONNECTION. SEE FP-74002.

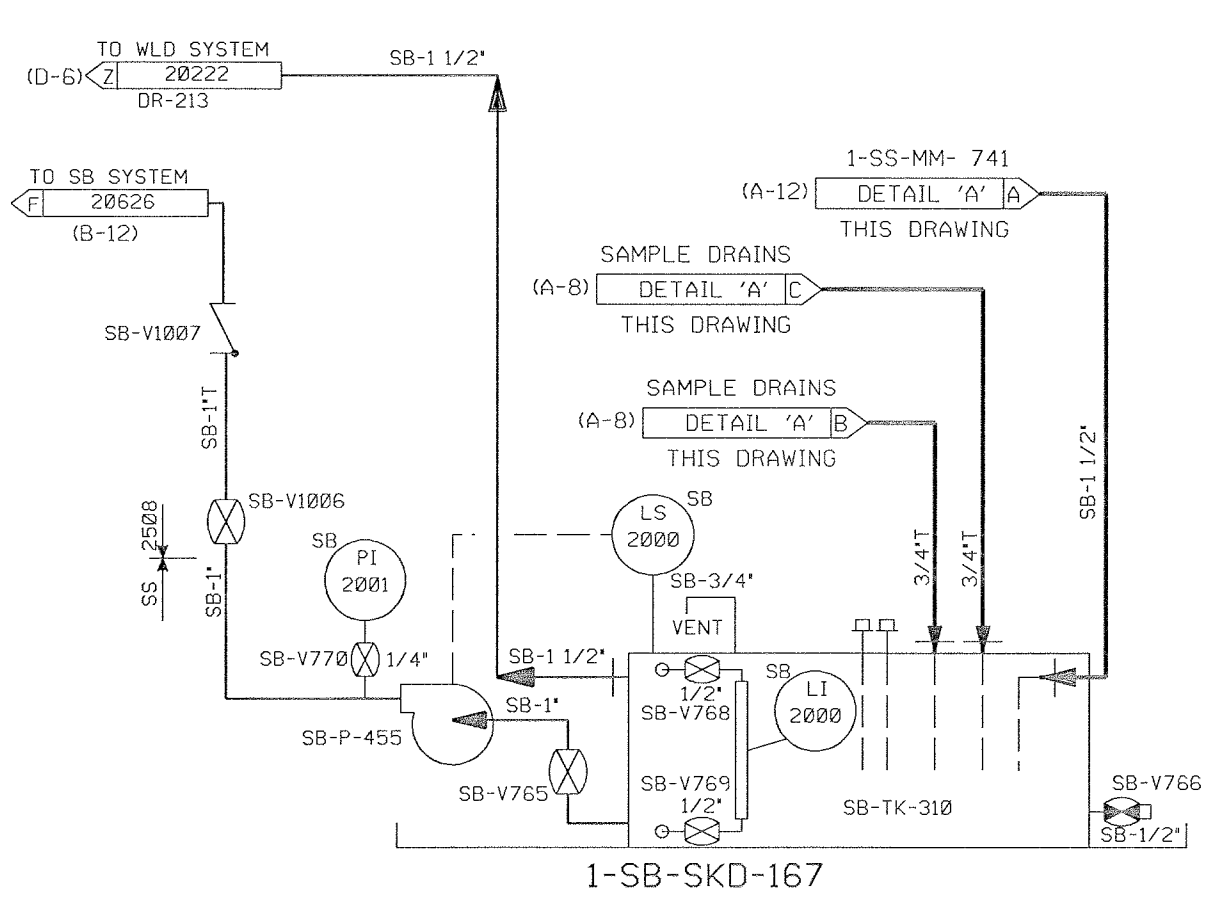
PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

11	1/11/12	JM	BCS	DJM	INCOMP. EC*274981
10	11/15/99	BCS	DWS	RCP	INCOMP. DCR 99-0010 DCM-00, 01
9	8/18/97	MPW	BCS	VWS	INCOMP. MODD 96-556 DCM 01
8	8/3/95	DWS	BCL	RCP	INCOMP. MODD 920556 CA*0
7	9/3/91	GPM	JM	RRC	INCOMP. MODD 90-597 CA01
6	5/23/91	MRB	JM	BCL	INCORPORATED DCR 86-586 CA04
5	1/4/91	MRB	JM	BCL	INCORPORATED MODD 90-639 CA01
4	2/23/90	MRB	APL	IW	INCORPORATED DCR 87-76, CA01
3	2/1/89	GPM	MRB	DJM	INCORPORATED DRR 88-51 REV 1 REVISED: DWG CONT. NUMBER, NOTES 1 & 2. ADDED: P & 10 LEGEND NOTE, NOTE 9 DWG CONT. COORD'S & SYSTEM INTERFACE. DELETED: NOTES 4 & 5, NNS-1-CL BOUNDARY, INCOMPLETE ITEM ECA 05/114987B SUPERCEDED BY DRR 88-51.
2	9/17/86	BCL	MAP	RRC	RE-INCORP. PORTION OF ECA 05/114987B (ECA REMAINS AS PARTIALLY INCORPORATED)
1	09/12/86	DJM	WFO	RRC	INCORP. ECA 05/114987B, REV PER VENDOR FP-71448, ADDED NOTE 8.
0	12/31/85	WDS	JDM	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION






- FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2
- NOTES:
- WORK THIS DRAWING WITH DRAWINGS 20516, 20518, 20519, 20520 & 20522.
 - ALL LINES, EQUIPMENT COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SS, UNLESS NOTED OTHERWISE.
 - ALL TUBING 3/8" T AND MATL CLASS 2508 UNLESS NOTED OTHERWISE.
 - SEE DWG 20518 FOR ADDITIONAL NOTES.
 - LOW CRACKING PRESSURE VALVE.
 - ONLY ONE S/G AT A TIME IS LINED UP TO THE SACC ANALYZER.
 - THIS EQUIPMENT HAS 1/4" TUBING CONNECTIONS.
 - DISPOSE OF COOLANT IN A PROPER CONTAINER FOR OFF SITE DISPOSAL. DO NOT DIRECT TO FLOOR DRAINS.
 - DRAINS ARE SLOPED TO OUTLET CONNECTION (#8).
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 - △ INDICATES REVISION LEVEL.
 - FILTER ELEMENTS OF THE FOLLOWING FILTERS MAY BE OPTIONALLY INSTALLED PER THE DIRECTION OF CHEMISTRY: 1-SS-F-177, 178, 179, 180



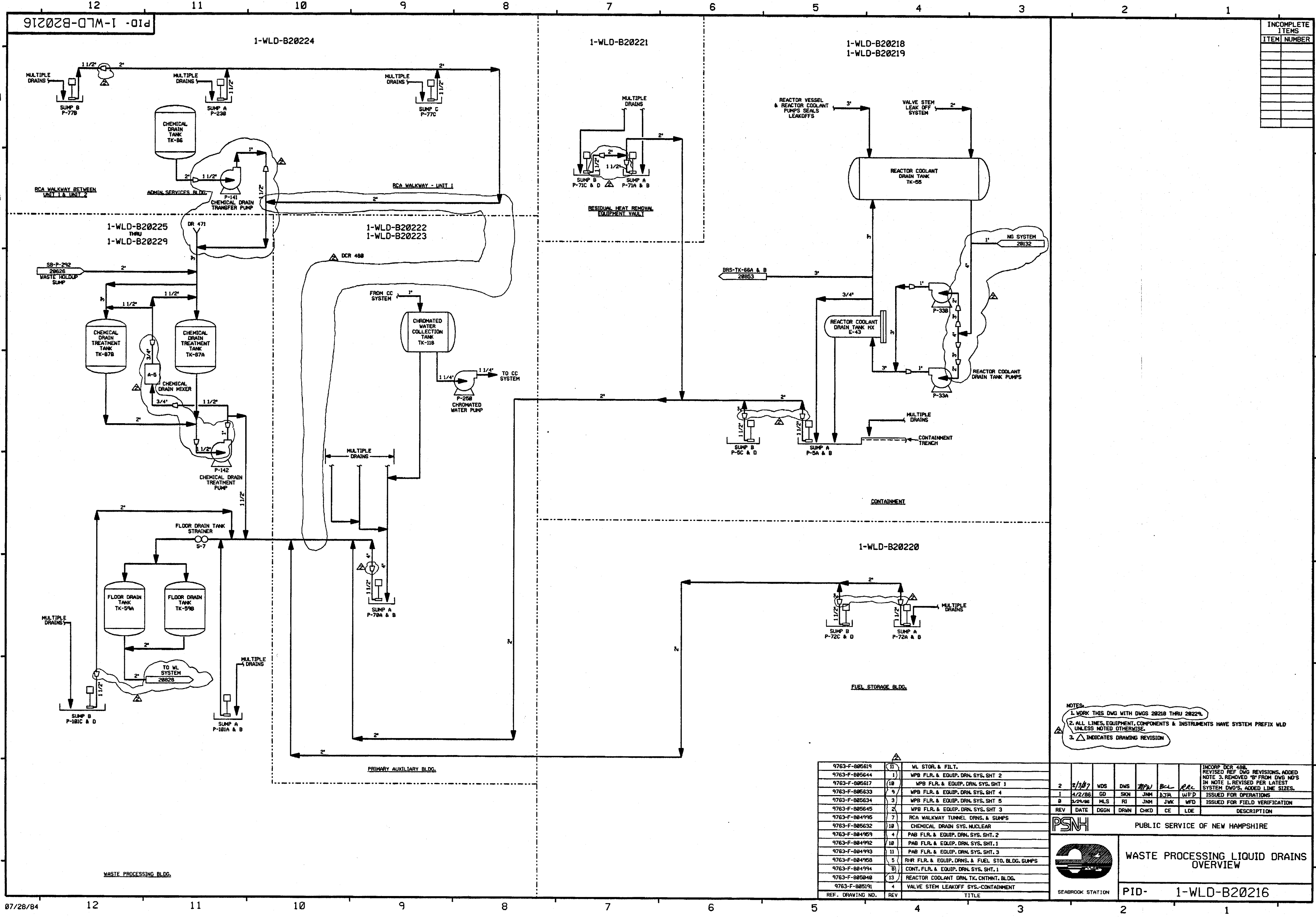
18	9/21/10	JM	MM	34K	REVISED TO ELECTRONICALLY INCORP EC#12718 PER AP#578748
17	9/9/10	BCS	MW	SAK	INCORP. EC#12718
16	6/9/10	JM	MPW	SAK	INCORP. EC#12718
15	12/6/01	BCS	MPW	DEA	INCORP. MSE 01-0231 REV. 00
14	6/22/01	JM	BCS	SB	INCORP. DCR 00-0025, DCN-00, 05
13	11/2/95	SCL	MPW	RCP	INCORP. DCR 92-42 CAB. 4, 5
12	8/25/93	MRB	SCL	JWB	INCORP. DCR 90-39 CAB. 8
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



SEABROOK STATION

SAMPLE SYSTEM
STEAM GENERATOR
SAMPLE PANEL 166B P&ID

PID- 1-SS-B20521



INCOMPLETE ITEMS	
ITEM	NUMBER

NOTES:
1. WORK THIS DWG WITH DWGS 20218 THRU 20229.
2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. Δ INDICATES DRAWING REVISION

9763-F-805619	(1)	WL STOR. & FILT.
9763-F-805644	(1)	WPB FLR. & EQUIP. DRN. SYS. SHT. 2
9763-F-805617	(10)	WPB FLR. & EQUIP. DRN. SYS. SHT. 1
9763-F-805633	(9)	WPB FLR. & EQUIP. DRN. SYS. SHT. 4
9763-F-805634	(3)	WPB FLR. & EQUIP. DRN. SYS. SHT. 5
9763-F-805645	(2)	WPB FLR. & EQUIP. DRN. SYS. SHT. 3
9763-F-804995	(7)	RCA WALKWAY TUNNEL DRNS. & SUMPS
9763-F-805632	(10)	CHEMICAL DRAIN SYS. NUCLEAR
9763-F-804959	(4)	PAB FLR. & EQUIP. DRN. SYS. SHT. 2
9763-F-804992	(10)	PAB FLR. & EQUIP. DRN. SYS. SHT. 1
9763-F-804993	(11)	PAB FLR. & EQUIP. DRN. SYS. SHT. 3
9763-F-804958	(5)	RVR FLR. & EQUIP. DRNS. & FUEL STO. BLDG. SUMPS
9763-F-804994	(8)	CONT. FLR. & EQUIP. DRN. SYS. SHT. 1
9763-F-805040	(13)	REACTOR COOLANT DRN. TK. CONTNMT. BLDG.
9763-F-805191	(4)	VALVE STEM LEAKOFF SYS.-CONTAINMENT
REF. DRAWING NO.	REV	TITLE

22/3/07

WDS

DWS

JMM

B-L

WFD

REV

DATE

DSGN

DRWN

CHKD

CE

LDE

INCORP DCR 488, REVISED REF DWG REVISIONS, ADDED NOTE 3, REMOVED "S" FROM DWG NOS IN NOTE 1, REVISED PER LATEST SYSTEM DWG'S, ADDED LINE SIZES.

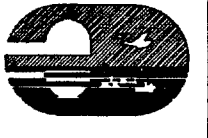
ISSUED FOR OPERATIONS

ISSUED FOR FIELD VERIFICATION

DESCRIPTION

PSNH

PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

WASTE PROCESSING LIQUID DRAINS OVERVIEW

PID- 1-WLD-B20216

PID-1-WLD-B20218

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 20216, & 20219 THRU 20229.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
 3. VALVES V69 THRU V73 ARE REACH ROD OPERATED.
 4. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. Δ INDICATES REVISION LEVEL
 6. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

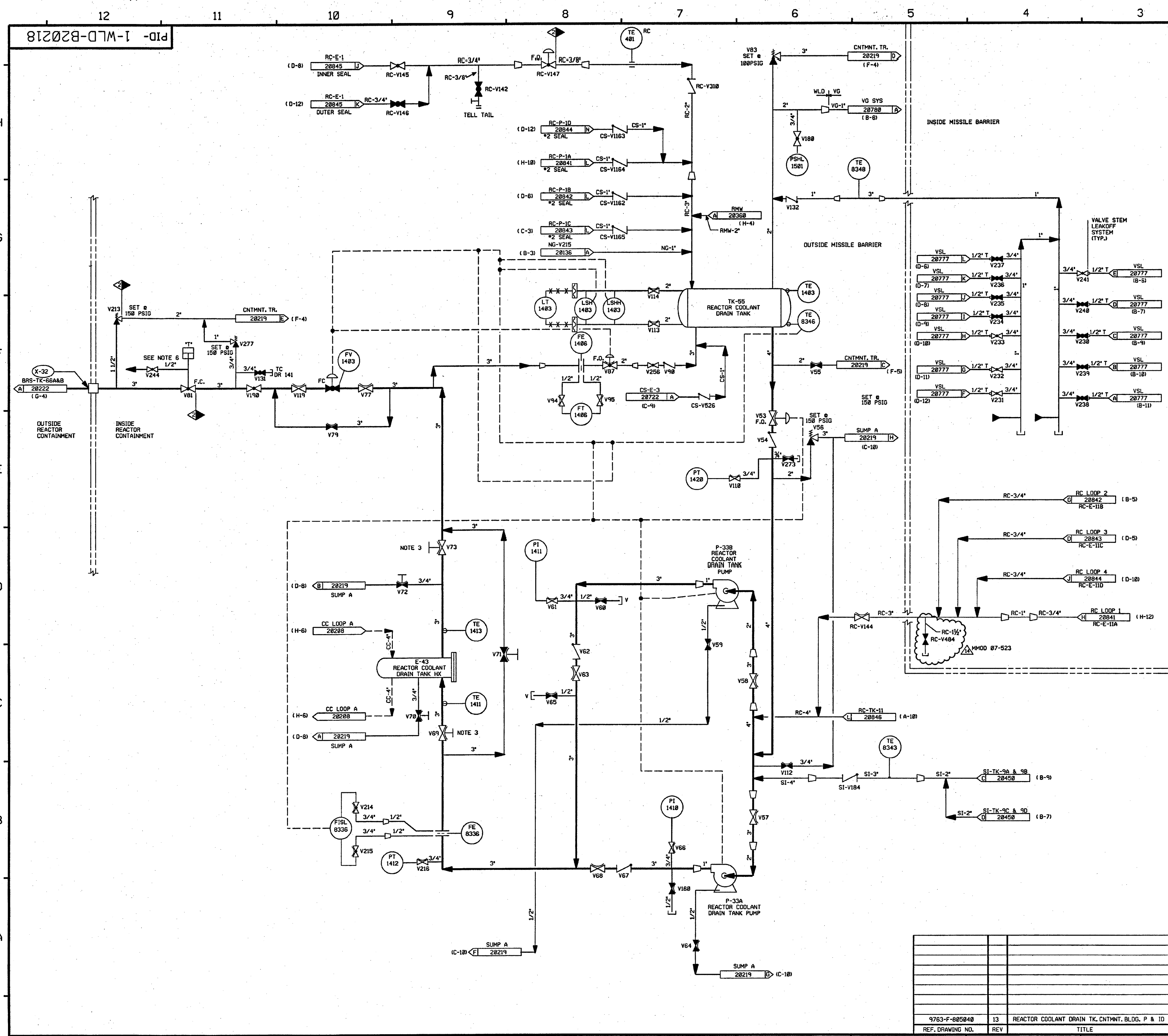
14	11/10/08	JM	BCL	RRR	INCORP MMOD 07-523 DCN 00
13	8/13/07	DWS	MPW	DMD	INCORP DCR 970008 DCN*00
12	1/31/97	DWS	BCS	AM	INCORP DCR 970005 CA*0
11	11/27/95	MPW	BCS	DMD	INCORP DCR 95-23 CA-6
10	11/13/95	BCS	MPW	RJF	PARTIAL INCORP DCR 95-23 CA-6
9	6-3-94	MPW	DWS	JLD	INCORP DCR 91-13 CAB & DCR 93-23 CA 3
8	4-3-92	DWS	BCL	ES	INCORP DCR'S 90-3 CA0
7	9-24-91	MRB	RMC	JEV	INCORP MMOD 91-610 CAB
6	4/28/88	MPW	BCL	RRR	REVISED: DRAIN LINES TO SUMP CONTINUATION LETTER REF. COORD AND DUPLICATED PIPING SHOWN IN PHANTOM.
5	7/2/87	GPM	PAL	VMS	REVISED: PIPING TO REFLECT AS INSTALLED CONFIG. ADDED NOTE 6
4	2/27/87	DWS	PAL	VMS	INCORP. WR 87-W000155
3	1/19/87	MAP	PAL	VMS	ADDED VSL CONT FLAGS & REF COORD'S & WR TO ILL RELOCATED PIPING FROM V112 & V58 REMOVED CAPILLARY FROM PER AS-BUILT CONDITION. PLUGGED TE-304 SHOWN PER USE&C ISOMETRIC. ADDED REF COORD TO REF FLAG. UPDATED REF DWG BLOCK & ADDED NOTE 5.
2	6/17/86	TAK	BCL	RRR	ADDED REF. RWG. 804994
1	4/2/86	GD	JOM	WFD	ISSUED FOR OPERATIONS
0	3/29/85	MLS	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station

WASTE PROCESSING LIQUID DRAINS
REACTOR COOLANT SYSTEM

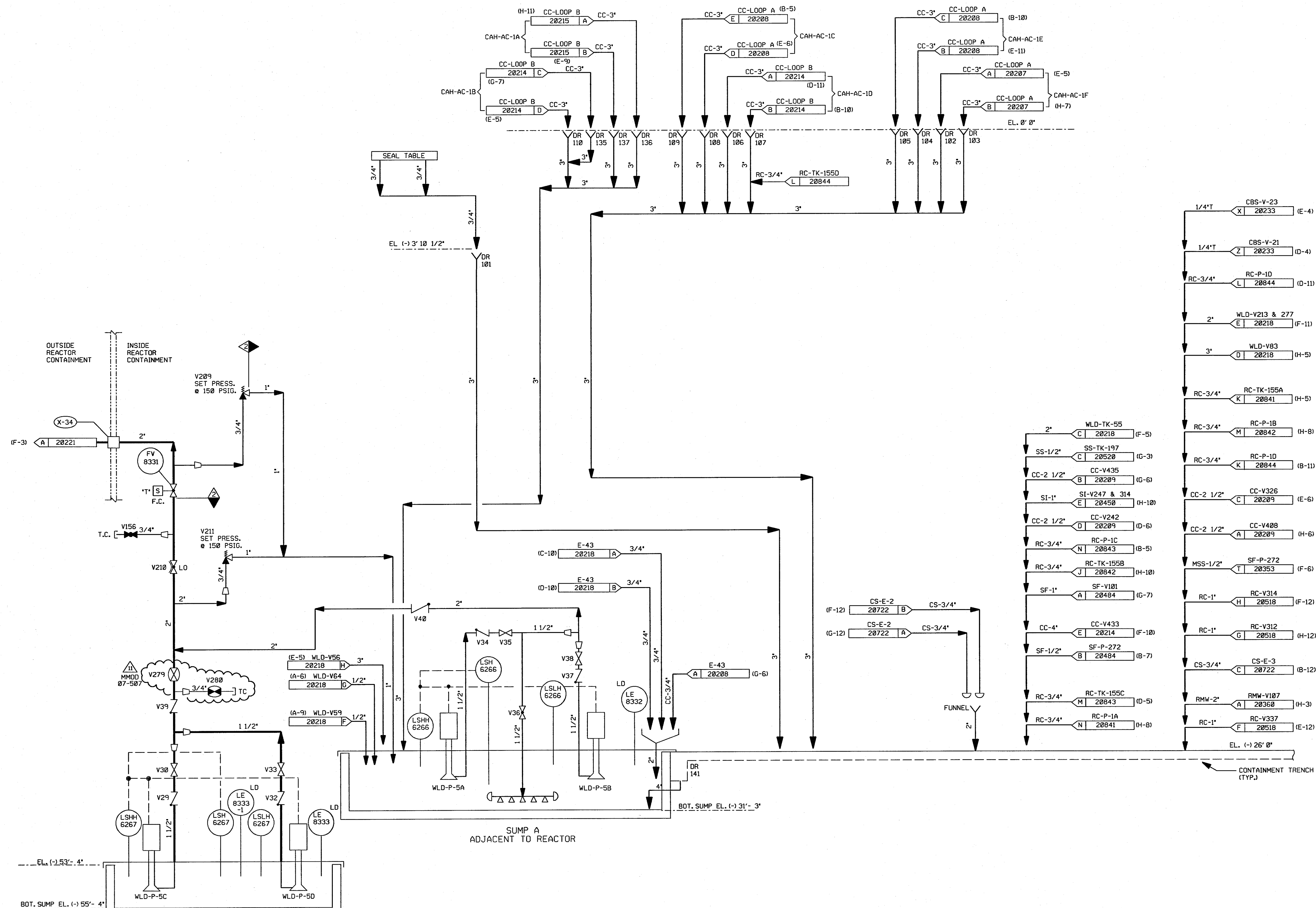
PID- 1-WLD-B20218

REF. DRAWING NO.	REV	TITLE
9763-F-005040	13	REACTOR COOLANT DRAIN TK. CNTMNT. BLDG. P & ID



PID-1-WLD-B20219

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



DRAINS SHOWN ON THIS DRAWING

101	106	135
102	107	136
103	108	137
104	109	141
105	110	

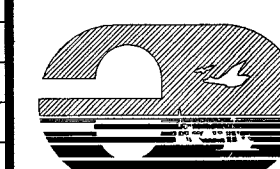
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218 & 20220 THRU 20229.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. DELETED

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

11	4/14/88	JM	Bos	JME	INCRP MMD 07-507 DCN 00.01
10	4/6/85	JM	MPW	RRB	INCRP MSE 04-196 REV 01.00
9	8/18/97	MPW	BCS	VWS	INCRP MMD 96-550 DCN 01
8	6/13/97	DWS	MPW	DMQ	INCRP DCR 970008 DCN*00
7	1/17/97	DWS	MPW	DMQ	INCRP DCR 970002 CA*0 & 1
6	10/14/88	MRB	GPM	RRR	INCRP NCR 96-508 REV 1 DELETED NOTE 5
5	4/28/88	MPW	BCL	RRR	ADDED: LINE SIZES; REVISED: DRAIN LINES TO SUMP A AND NOTE 3. DELETED REF. DOC. REVISED DRAFTING ERRORS; DRAIN LOC. FOR HX-E-43; ADDED DRAIN FOR RC-P-1D, NOTE 5 & DESIGNATION AND NCR 88/600 AS INCOMP. ITEM, INCRP NCR 96/111 REV.0 & NCR 88/112 REV.0
4	12/22/86	WDS	WRD	RRR	DELETED VG DRAIN LINE, ADDED CONT. REF. LOCATIONS AND NOTE 4. INCRP'D ECA 19/10341A, 19/110443A
3	10/10/86	JDM	MPW	RRR	REMOVED CHANGE ITEM #1 PER ECA 19/108566A, INCRP. ECA 19/116102A & 74/102536B & C
2	6/16/86	TAK	DWS	RRR	INCRP. ECA 19/108566A ISSUED FOR OPERATIONS
1	4/2/86	GD	JDM		INCRP. ECA 19/108566A ISSUED FOR OPERATIONS
0	3/29/85	MLS	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station



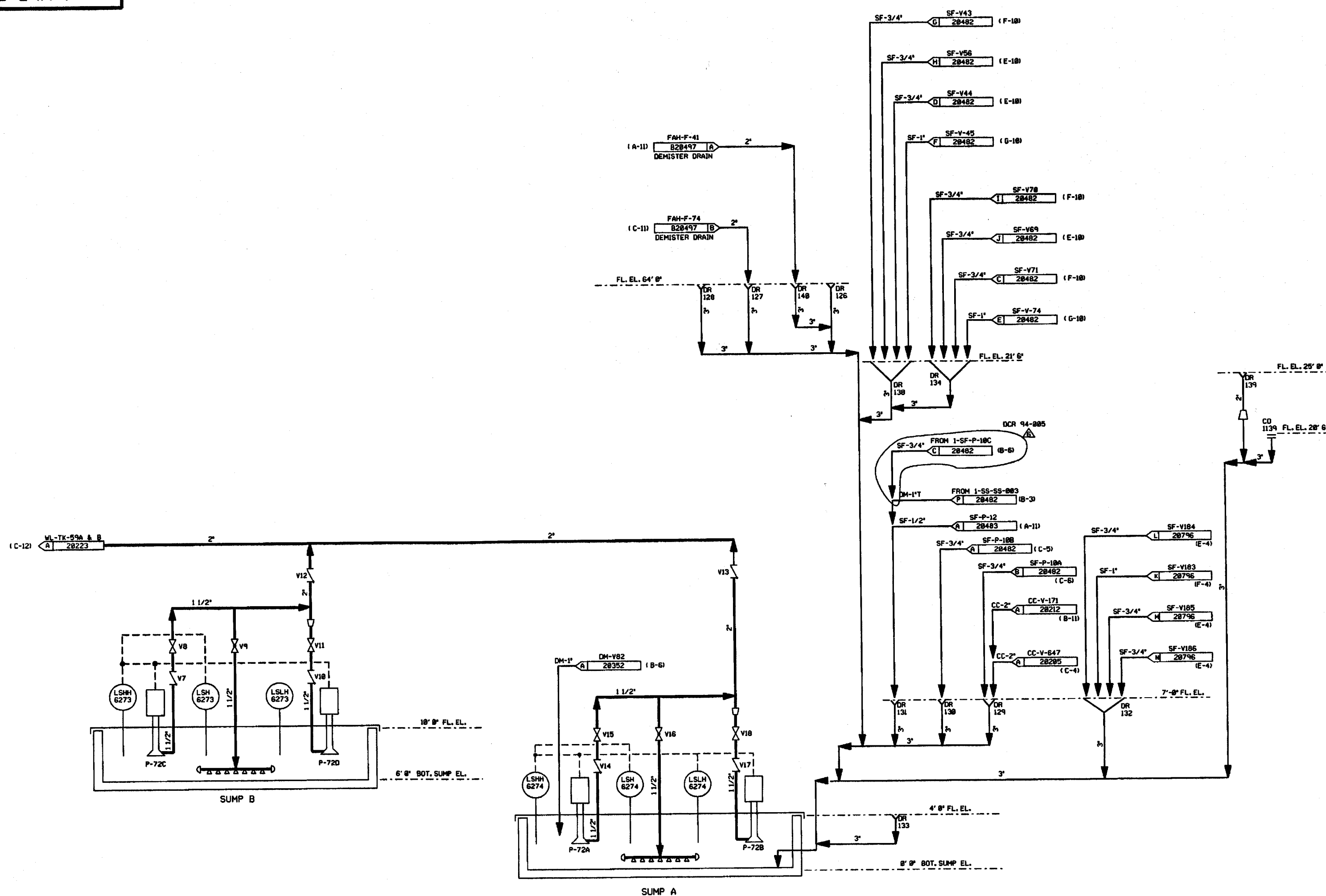
WASTE PROCESSING LIQUID DRAINS
CONTAINMENT BUILDING SUMPS

PID- 1-WLD-B20219

9763-F-004994	8	CONTNMT. FLR. & EQUIP. DR. SYS. SHT. 1 P & ID
REF. DRAWING NO.	REV	TITLE

PID-1-WLD-B20220

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



DRAINS ON THIS DRAWING

126	132
127	133
128	134
129	135
130	136
131	137

CLEANOUT ON THIS DRAWING

1139

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218, 20219, & 20221 THRU 20224.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS NNS.

4. △ - INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
6	3/21/97	BCS	MRB	MPW	RRC	INCORP. DCR 94-005 CAG	
5	12/03/96	JH	MRB	MPW	RRC	INCORP. DCR 90-42 CA32	
4	8/14/96	MRB	JH	FCB	QPM	BCL	INCORP. DCR 90-42 CAG
3	5/21/96	MRB	RMC	APL	BCL	GRM	INCORP. DCR 87-294 CAG4
2	12/12/88	FJR	TAK	MRJ	BCL	RRC	ADDED CONTINUATION FLAG COORDS, REFERENCE DRAWINGS AND NOTE 4.
1	4/2/88	GD	CJS	JDM	DFH	WFD	ISSUED FOR OPERATIONS
0	3/24/85	MLS	MRB	JHM	JMK	WFD	ISSUED FOR FIELD VERIFICATION

North Atlantic Energy Service Corporation



WASTE PROCESSING LIQUID DRAINS
FUEL STORAGE BUILDING

PID- 1-WLD-B20220

REF. DRAWING NO.	REV	TITLE
9763-F-004958	4	RHR FLR & EQUIP DRNS & FUEL STO. BLDG SUMP-PAID

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


DRAINS ON THIS DRAWING

151	156	161
152	157	162
153	158	163
154	159	164
155	160	165

CLEANOUT ON THIS DRAWING

1152

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218 THRU 20220, & 20222 THRU 20229.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD
UNLESS NOTED OTHERWISE
3. DELETED
4. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS
NNS UNLESS NOTED OTHERWISE
5.  INDICATES REVISION LEVEL.
6. V263 IS A SPRING LOADED, SELF-CLOSING VALVE, PROVIDING MELB PROTECTION FROM
CROSS-TRAIN FLOODING OF VAULTS.

PORTIONS OF THIS DRAWING ARE

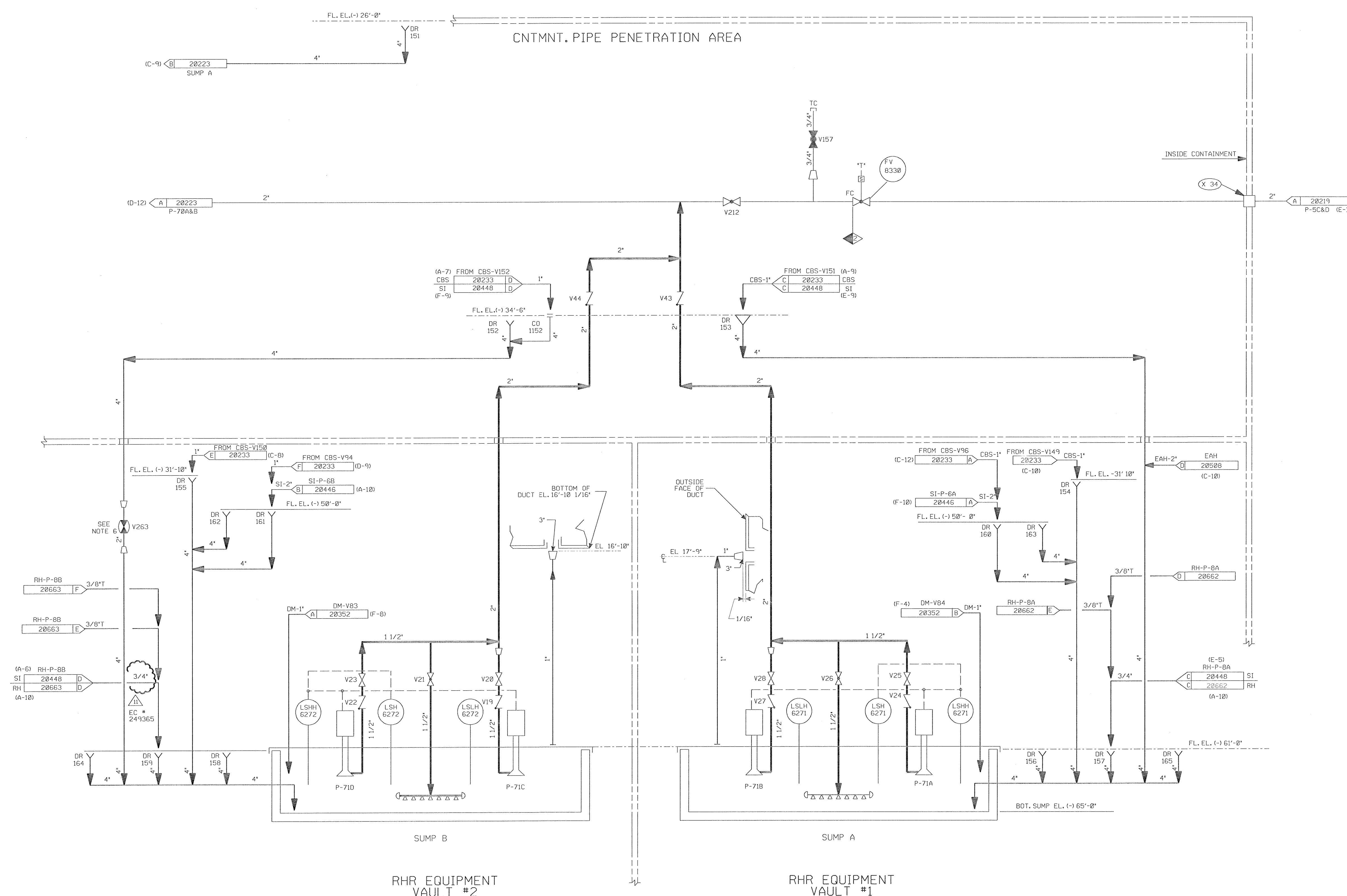
NUCLEAR SAFETY RELATED

11	12/25/79	GPS	JM	BCS	INCRP, EC #249365
	1/10/82	MPW	BCS	RRB	INCRP, DCR 01-0002 DCN 00
9	3/25/79	BCL	MRB	GPM	INCRP MMOD 92-552 CA00
8	10/23/78	MRB	JM	BCL	INCRP MMOD 90-001 CA00
7	11/11/81	MRB	APL	GPM	COMPLETE INCRP, DCR 87-311 CA16
6	9/6/89	MRB	APL	WFD	PARTIAL INCRP, OF DCR 87-311 CA 07
5	4/21/89	MPW	APL	GPM	ADDED LINES FROM DWG #20520 SHOWN ON THIS DWG, PER CHEMISTRY REQUEST REVISED: CONT. REF. C0000., EAM CONT. & NOTE 4 DELETED: PIPE SPECS.
4	7/10/87	MPW	PAL	VWS	INCRP DCR 86-482.
3	11/4/86	MAP	WRD	RRC	REVISED REF. DWG REV. ADDED P&ID LEGEND NOTE, DWG C0000. REMOVED ALFA FROM DWG REF NOTE 1.
2	9/2/86	MAP	JDM	RRC	DELETED NOTE 3 & INCRP ECA 74/116567B
1	4/2/86	GO	JDM	WFD	ISSUED FOR OPERATIONS
0	3/29/85	MLS	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CD	DESCRIPTION

NEXtera ENERGY 
SEABROOK

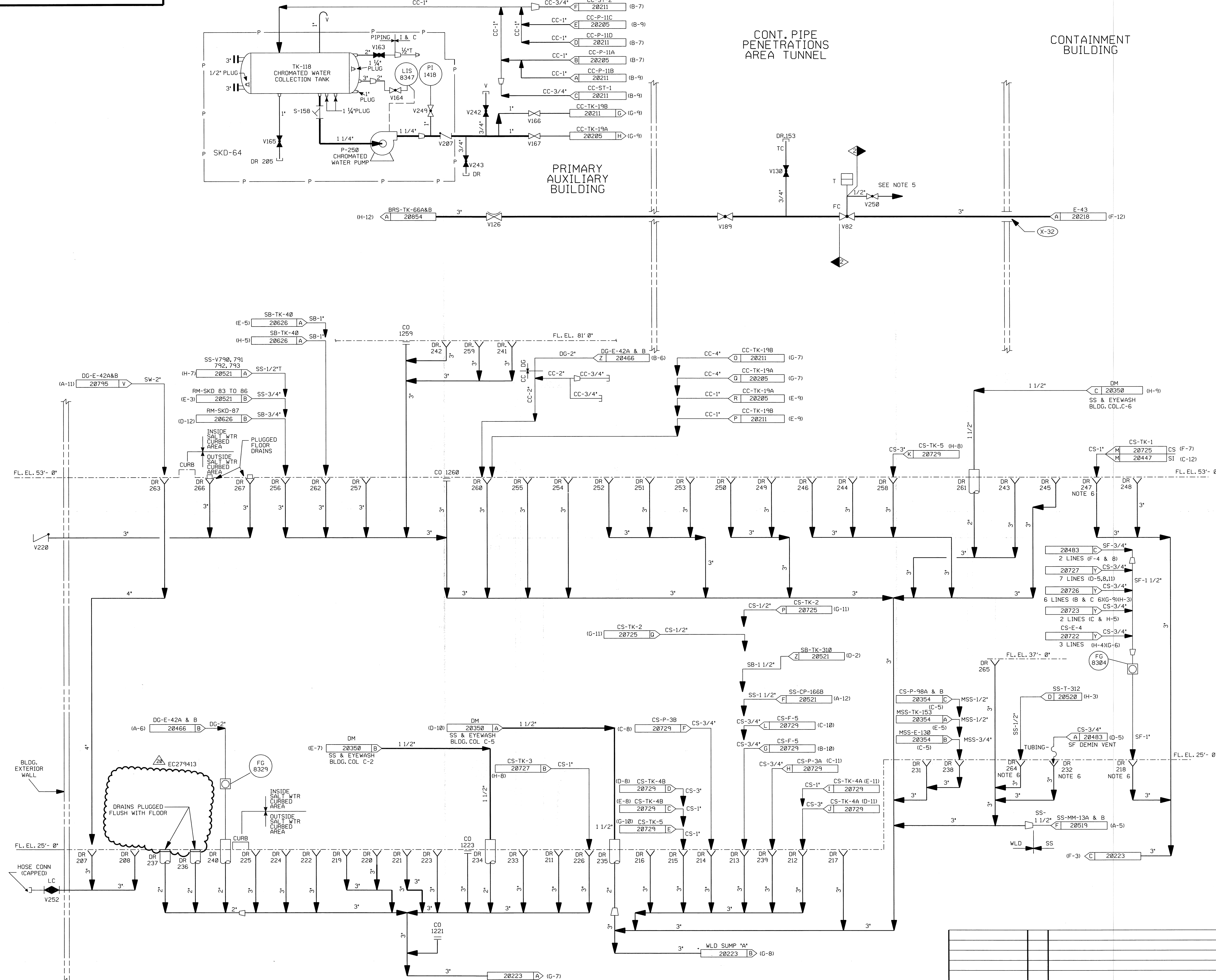
WASTE PROCESSING LIQUID DRAINS
RHR
EQUIPMENT VAULTS #1 & #2

PID- 1-WLD-B20221



9763-F-884958	5	RHR FLR & EQUIP DRNS & FUELS TO BLDG SUMP-P8
REF. DRAWING NO.	REV.	TITLE

2220228-07M-1 -PID



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

DRAINS ON THIS DRAWING

207	219	233	243	253	263
208	220	234	244	254	264
211	221	235	245	255	265
212	222	236	246	256	266
213	223	237	247	257	267
214	224	238	248	258	
215	225	239	249	259	
216	226	240	250	260	
217	231	241	251	261	
218	232	242	252	262	

CLEANOUTS ON THIS DRAWING

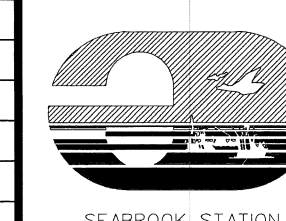
1221
1223
1259
1260

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218 THRU 20221, & 20223 THRU 20229.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFF.
 6. THIS DRAIN HAS A GAS CONTAINMENT DEVICE ADDED PER MMOD 96-655.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

20	12/13	BCS	MW	SAK	INCORP. EC279413
19	9/9/10	BCS	MW	SAK	INCORP. EC 12718
18	1/10/02	MPW	BCS	RRB	INCORP. DCR 01-002 DCN 00
17	10/13/00	BCS	MPW	JCM	INCORP. MMOD 99-507 DCN 00
16	3/4/98	BCS	DWS	VWS	INCORP. MMOD 96-655 DCN 03
15	6/11/97	DWS	MPW	VWS	INCORP. OF DCR 960016 CA#0
14	5/28/97	DWS	MPW	VWS	PARTIAL INCORP. OF DCR 960016 CA#0
13	8/10/97	MPW	BCS	VWS	INCORP. MMOD 96-655 CA0
12	1/10/97	MPW	BCS	RRB	INCORP. DCR 87-55 CA0
11	11/2/95	BCL	MPW	RRB	INCORP. DCR 92-42 CA0
10	7/25/95	BCL	DWS	VWS	INCORP. MMOD 94-547 CA0
9	6/3/93	MRB	BCL	DWO	INCORP. MMOD 91-516 CA0
8	4/8/93	BCL	MPW	WFZ	INCORP. MMOD 91-507 CA0
7	4/21/92	MRB	BCL	JEV	INCORP. MMOD 91-515 CA0
6	8/18/89	MRB	DWS	GRM	INCORP. MMOD 89-530 REV 0
5	4/21/88	GPM	APL	POS	INCORP. DCR 86-401CA1 REVISED NOTE 3, PIPING PER AS INSTALLED CONFIGURATION. CONT DWG NO'S & COORD'S, SALT WATER BOUNDARY, ADDED CONT COORD'S & MATCH UP LETTERS, NOTE 5, TK-118 CONNECTIONS DELETED; BUILDING DESIGNATION.
4	12/3/86	MAP	MPW	RRC	REVISED PER UE&C ERECTION ISO., ADDED ISO. REF. DWGS., DWG. LOC. COORD'S & NOTE 4.
3	9/2/86	MAP	MAP	RRC	INCORP. ECA 99/115494A
2	6/16/86	JDM	DWS	RRC	ADD LETTER DESIG. TO CONTINUATIONS INCORP. ECA 19/106629A
1	4/2/86	GD	JDM	WFD	INCORP. ECA 08/114678B ISSUED FOR OPERATIONS
0	3/29/85	MNS	JNM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY
SEABROOK



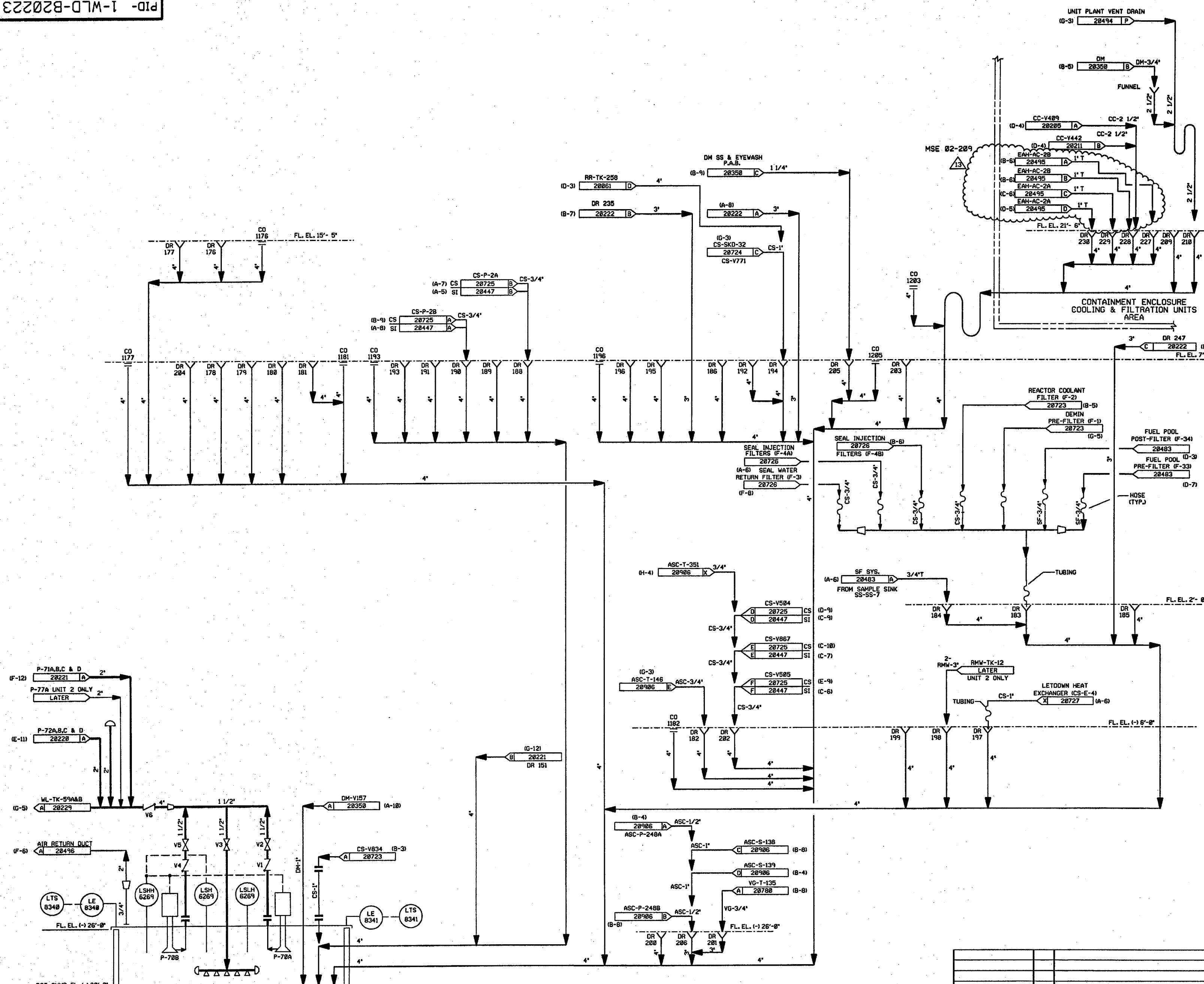
WASTE PROCESSING LIQUID DRAINS
PRIMARY AUXILIARY BLDG.
SHT. 1 OF 2

PID- 1-WLD-B20222

REF. DRAWING NO.	REV	TITLE
9763-F-805040	11	REACTOR COOLANT DRAIN TANK CNTRNT BLDG
9763-F-805632	10	CHEMICAL DRAIN SYSTEM NUCLEAR P&ID
9763-F-804993	10	PAB FLR & EQUIP DRN SYS SHT 3
9763-F-804992	9	PAB FLR & EQUIP DRN SYS SHT 1

PID-1-WLD-B20223

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



DRAINS ON THIS DRAWING

176	183	191	198	205	238
177	184	192	199	206	
178	185	193	200	209	
179	186	194	201	210	
180	187	195	202	217	
181	188	196	203	218	
182	189	197	204	219	

CLEANOUTS ON THIS DRAWING

1176	1193	1446 (UNIT #2)
1177	1196	
1181	1203	
1182	1205	

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28216, 28218 THRU 28222, & 28224 THRU 28229.
 2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	10-21-88	BCS	JMA	MSB	INCORP. MSE 02-209 REV. 00
12	1/18/82	MPW	BCS	RRB	INCORP. DCR 01-0086 CEN 00
11	8/18/97	BCL	BCS	VWS	INCORP. MM00-91-507 CA-0
10	11/2/92	BCL	DWS	DJM	INCORP. DCR 08-179 CA0
9	4/23/92	MRB	BCL	JEV	INCORP. MM00-91-515 CA0
8	7/25/91	MRB	JH	JEV	INCORP. DCR 06-244 CA0
7	3-16-90	MRB	APL	RSG	INCORP. DCR 07-33 CA7 REVISED NOTE 3 ADDED: CONTINUATION TAG DESCRIPTIONS
6	3/22/88	MPW	BCL	RRR	LINE FROM DWG 28528 SHOWN GOING TO SUMP PER CHEMISTRY REQUEST.
5	2/3/87	JDM	MPW	RRR	INCORP. DCR 489
4	12/1/86	VDS	MRJ	RRR	REVISED REF. DWG. REVISIONS, ADDED FLANGES AT SUMP A
3	10/18/86	MAP	JDM	RRR	ADDED DWG. LOCATION COORD. & NOTE 4. RE-INCORPORATED ECA 99/114510A INC. ECA'S 99/086183C, 99/100049A
2	6/13/86	TAK	DWS	RRR	INC ECA'S 99/114510A & 99/086183A
1	4/2/86	GD	JDM	WFO	ISSUED FOR OPERATIONS
0	3/24/85	MLS	RSL	WFO	ISSUED FOR FIELD VERIFICATION

FPL ENERGY

Seabrook Station

WASTE LIQUID DRAINS
PRIMARY AUXILIARY BLDG.
SHT. 2 OF 2

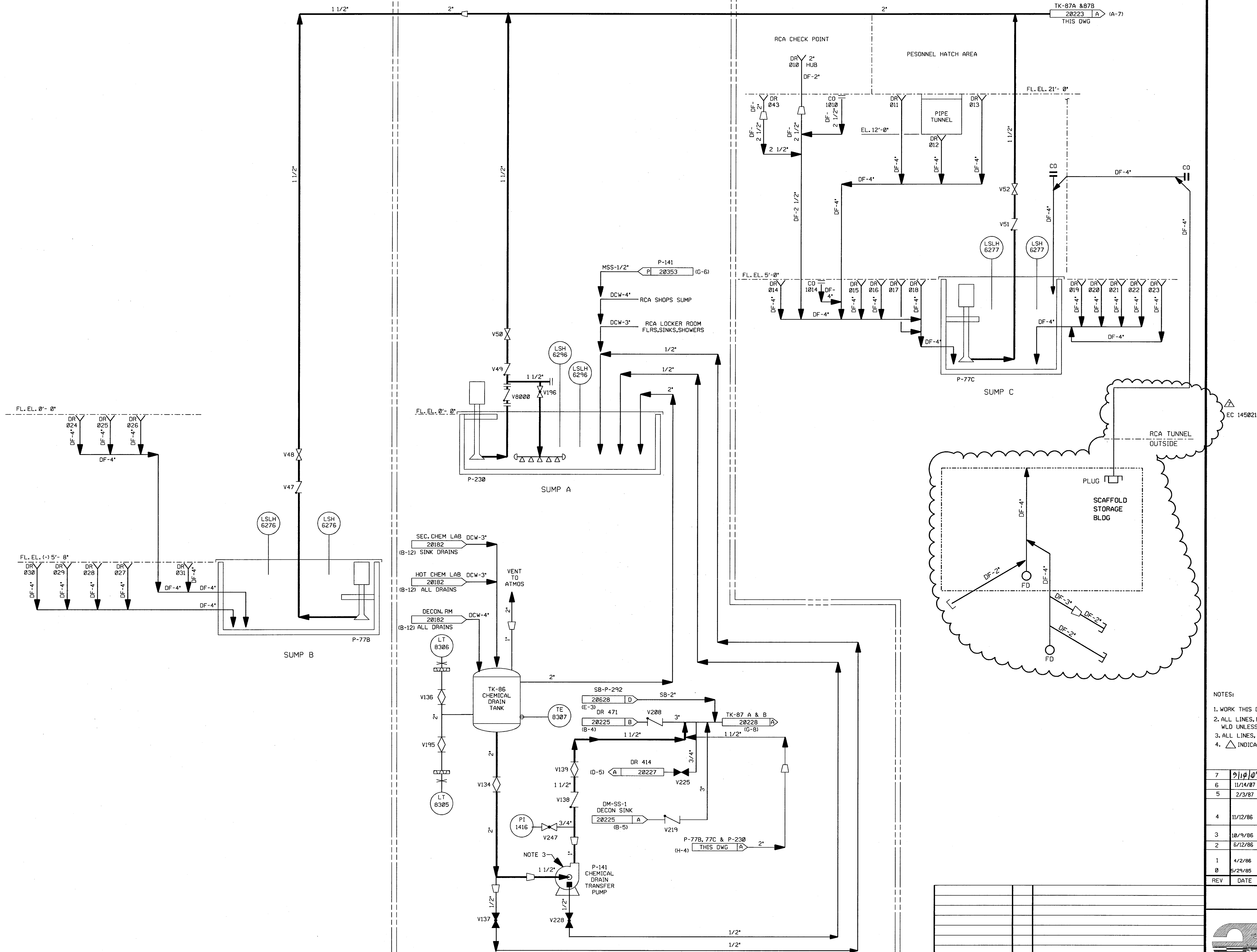
PID- 1-WLD-B20223

REF. DRAWING NO.	REV	TITLE
9763-F-084993	10	PAB FLR & EQUIP DRN SYS SHT 3 PAID
9763-F-084994	4	PAB FLR & EQUIP DRN SYS SHT 2 PAID
9763-F-084992	10	PAB FLR & EQUIP DRN SYS SHT 1 PAID

RCA WALKWAY
BETWEEN
UNIT 1 & UNIT 2


ADMINISTRATION &
SERVICE BUILDING

RCA WALKWAY
UNIT 1



010	016	022	028
011	017	023	029
012	018	024	030
013	019	025	031
014	020	026	043
015	021	027	

1010
1014

1. WORK THIS DRAWING WITH DRAWINGS 20216,20218 THRU 20223 & 20225 THRU 20229.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS N.
4.  INDICATES REVISION LEVEL.

7	9/16/07	BCS	AW	MDL	INCOMP. EC 145021
6	11/14/87	BCS	JM	RRB	INCOMP. MSE 07-034 REV. 00, 01
5	2/3/87	JDM	PAL	RRC	INCOMP. DCR 480.
4	11/2/86	CSB	WRD	RRC	REMOVED SIGNAL LINE FROM LEVEL INSTR. (FOUND ON I&C LOOP DWG.) REMOVED PIPE SPEC. ADDED V8000 PER INSTALLED CONDITION.
3	10/9/86	JDM	MPW	RRC	ADDED CONT. REF. LOCA. & NOTE 4 INCOMP. ECA 19/116198 & 19/118170A
2	6/12/86	DWS	DWS	RRC	ADDED DCW CONTINUATIONS
1	4/2/86	GD	JDM	WFD	INCOMP. ECA 06/114859C ISSUED FOR OPERATIONS
0	5/29/85	MLS	RSL	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

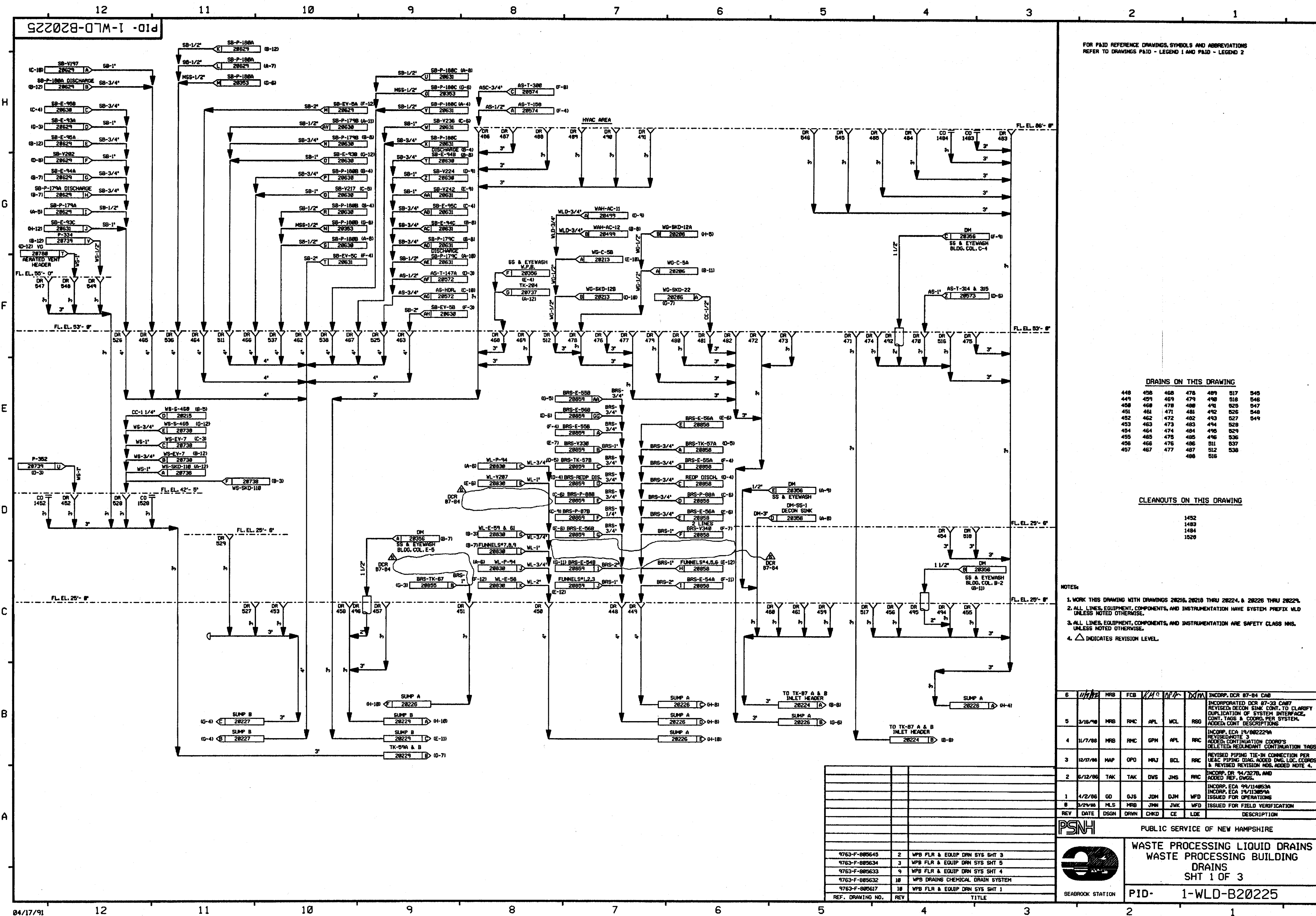
NEXTERA ENERGY 
SEABR00K



WASTE PROCESSING LIQUID DRAINS
ADMINISTRATION BUILDING &
RCA WALKWAY DETAILS

PID-	1-WLD-B20224
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9763-F-005632	9	CHEMICAL DRAIN SYS. NUCLEAR P&ID
9763-F-004995	6	RCA WALKWAY TUNNEL DRAINS & SUMPS P&ID
REF. DRAWING NO.	REV	TITLE



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

DRAINS ON THIS DRAWING

448	458	468	478	488	517	548
449	459	469	479	489	518	549
450	460	470	480	490	525	547
451	461	471	481	492	526	548
452	462	472	482	493	527	549
453	463	473	483	494	528	
454	464	474	484	495	529	
455	465	475	485	496	536	
456	466	476	486	497	537	
457	467	477	487	498	538	
				499	539	

CLEANOUTS ON THIS DRAWING

1452
1483
1484
1526

NOTES

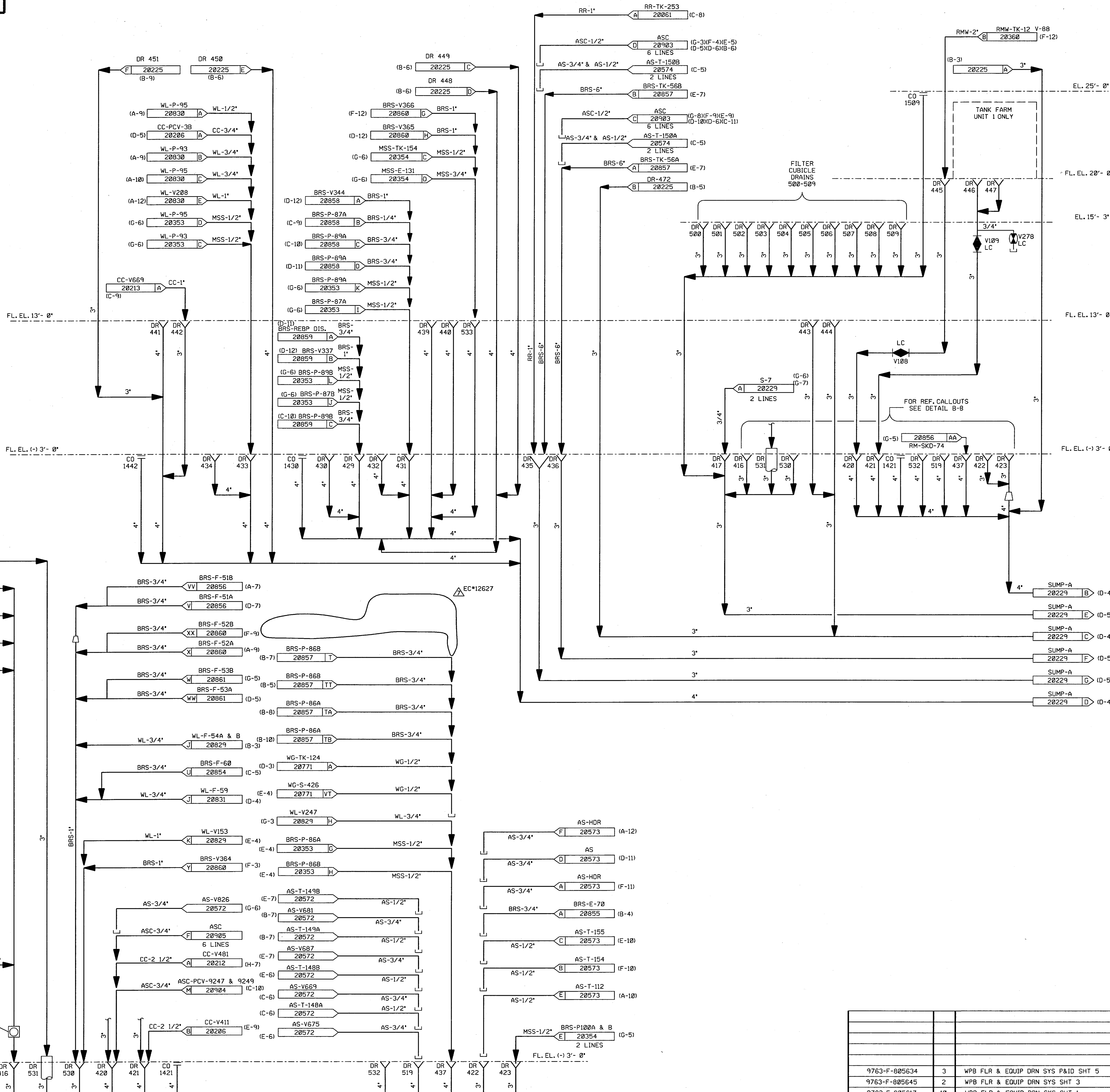
1. WORK THIS DRAWING WITH DRAWINGS 28216, 28218 THRU 28224, & 28226 THRU 28229.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
4. Δ INDICATES REVISION LEVEL.

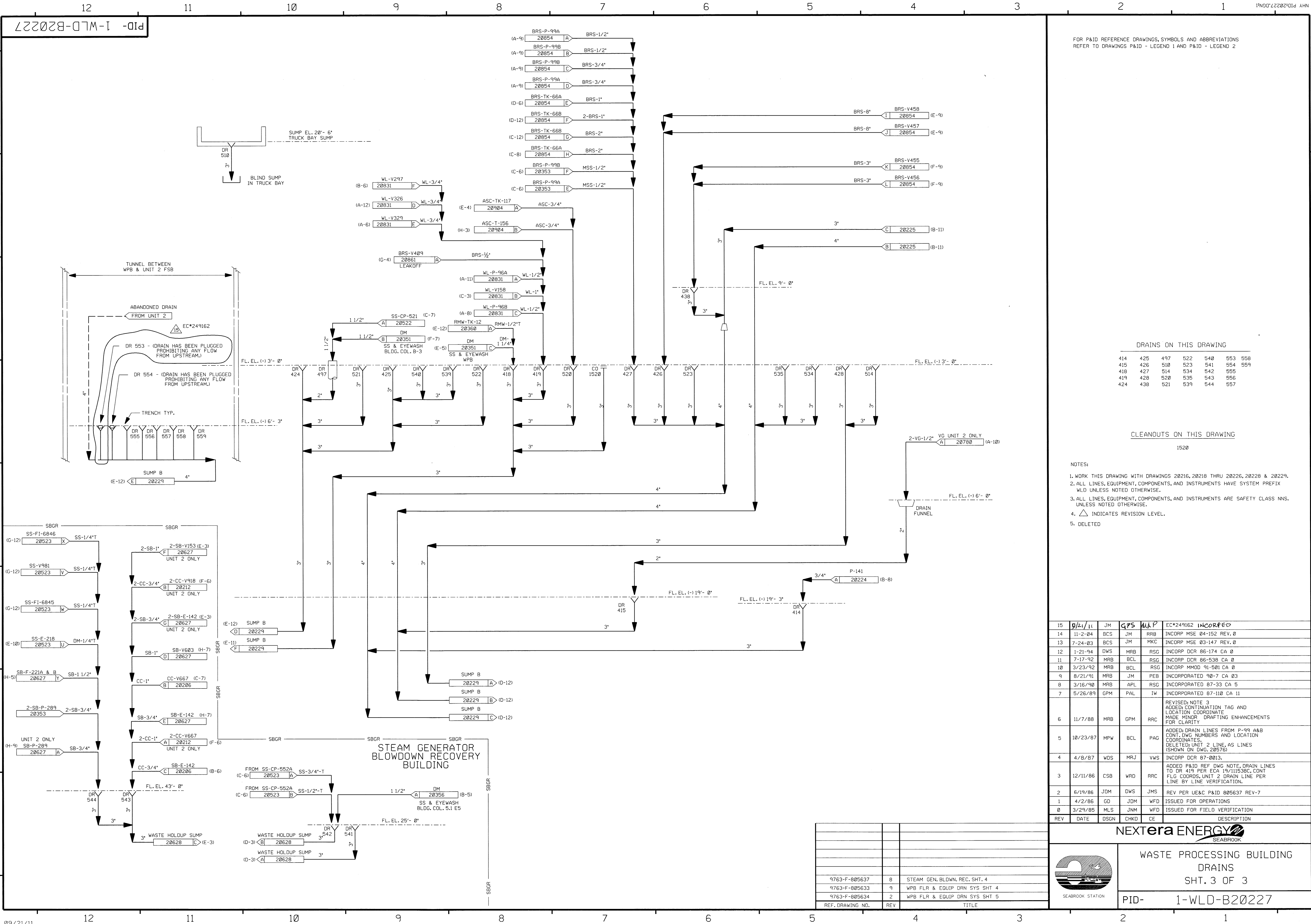
6	4/18/91	MRS	FCB	KAC	WLD	INCORP. DCR 87-84 C&B
5	3/15/90	MRS	RMC	APL	WLD	INCORPORATED DCR 87-33 C&B REVISED DECON SINK CONT. TO CLARIFY DUPLICATION OF SYSTEM INTERFACE, CONT. TAGS & COORD. PER SYSTEM, ADDED CONT. DESCRIPTIONS
4	11/7/88	MRS	RMC	GRM	APL	INCORP. ECA 19/082229A REVISED NOTE 3 ADDED CONTINUATION COORDS DELETED REDUNDANT CONTINUATION TAGS
3	12/17/88	MRS	OPD	MRJ	BCL	REVISED PIPING TIE-IN CONNECTION PER USAC PIPING DIAG. ADDED DME LOC. COORDS & REVISED REVISION NOS. ADDED NOTE 4.
2	6/12/88	TAK	TAK	DVS	JMS	INCORP. DR 94/3278, AND ADDED REF. DWGS.
1	4/2/88	GO	OJS	JDM	DJM	INCORP. ECA 99/114853A INCORP. ECA 19/113859A ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	DESCRIPTION
1	4/2/88	GO	OJS	JDM	DJM	ISSUED FOR FIELD VERIFICATION
2	6/12/88	TAK	TAK	DVS	JMS	DESCRIPTION
3	12/17/88	MRS	OPD	MRJ	BCL	
4	11/7/88	MRS	RMC	GRM	APL	
5	3/15/90	MRS	RMC	APL	WLD	
6	4/18/91	MRS	FCB	KAC	WLD	

PSNH
PUBLIC SERVICE OF NEW HAMPSHIRE

WASTE PROCESSING LIQUID DRAINS
WASTE PROCESSING BUILDING
DRAINS
SHT 1 OF 3

SEABROOK STATION
PID- 1-WLD-B20225





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

DRAINS ON THIS DRAWING

414	425	497	522	540	553	558
415	426	510	523	541	554	559
418	427	514	534	542	555	
419	428	520	535	543	556	
424	438	521	539	544	557	

CLEANOUTS ON THIS DRAWING

1520

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218 THRU 20226, 20228 & 20229.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
4. INDICATES REVISION LEVEL.
5. DELETED

15	9/21/11	JM	GPS	MAP	EC*249162 INCORP
14	11-2-04	BCS	JM	RRB	INCORP MSE 04-152 REV. 0
13	7-24-03	BCS	JM	MKC	INCORP MSE 03-147 REV. 0
12	1-21-94	DWS	MRB	RSG	INCORP DCR 86-174 CA 0
11	7-17-92	MRB	BCL	RSG	INCORP DCR 86-538 CA 0
10	3/23/92	MRB	BCL	RSG	INCORP MMOD 91-501 CA 0
9	8/21/91	MRB	JM	PEB	INCORPORATED 90-7 CA 03
8	3/16/90	MRB	APL	RSG	INCORPORATED 87-33 CA 5
7	5/26/89	GPM	PAL	IW	INCORPORATED 87-110 CA 11
6	11/7/88	MRB	GPM	RRC	REVISED; NOTE 3 ADDED; CONTINUATION TAG AND LOCATION COORDINATE MADE MINOR DRAFTING ENHANCEMENTS FOR CLARITY
5	10/23/87	MPW	BCL	PAG	ADDED; DRAIN LINES FROM P-99 A&B CONT. DWG NUMBERS AND LOCATION COORDINATES. DELETED; UNIT 2 LINE, AS LINES (SHOWN ON DWG. 20576)
4	4/8/87	WDS	MRJ	VWS	INCORP DCR 87-0013.
3	12/11/86	CSB	WRO	RRC	ADDED P&ID REF DWG NOTE, DRAIN LINES TO DR 419 PER ECA 19/111538C, CONT FLG COORDS, UNIT 2 DRAIN LINE PER LINE BY LINE VERIFICATION.
2	6/19/86	JDM	DWS	JMS	REV PER UE&C P&ID 805637 REV-7
1	4/2/86	GD	JDM	WFO	ISSUED FOR OPERATIONS
0	3/29/85	MLS	JNM	WFO	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

NEXTERA ENERGY
SEABROOK



WASTE PROCESSING BUILDING
DRAINS
SHT. 3 OF 3

PID- 1-WLD-B20227

9763-F-805637	8	STEAM GEN. BLDWN. REC. SHT. 4
9763-F-805633	9	WPB FLR & EQUIP DRN SYS SHT 4
9763-F-805634	2	WPB FLR & EQUIP DRN SYS SHT 5
REF. DRAWING NO.	REV	TITLE

A TO WLD-LT-8305 & WLD-P-141 ON DWG. B20224.

1. WORK THIS DRAWING WITH DRAWINGS 20216, 20218, THRU 20227 & 20229.
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WLD UNLESS NOTED OTHERWISE.
3. FLOW RESTRICTION PIPE SECTION.
4. SEE DWG. DM-20353 FOR DM SUPPLY TO MECHANICAL SEALS.
5. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS N.
6. Δ INDICATES REVISION LEVEL.

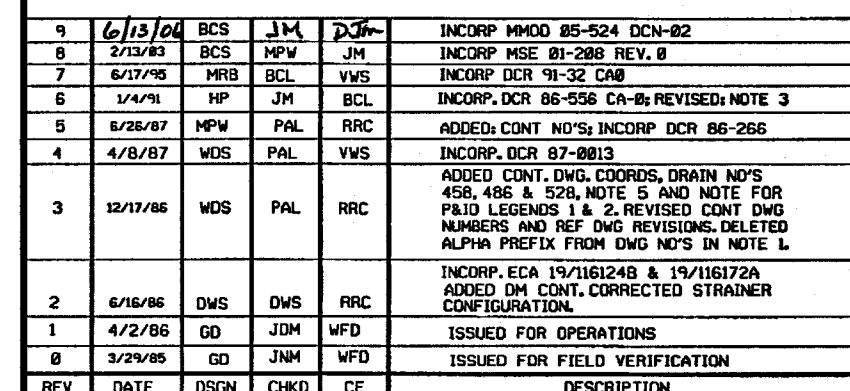
WASTE PROCESSING LIQUID DRAINS
WASTE PROCESSING BUILDING
CHEMICAL DRAIN SYSTEM

PID-	1-WLD-B20228
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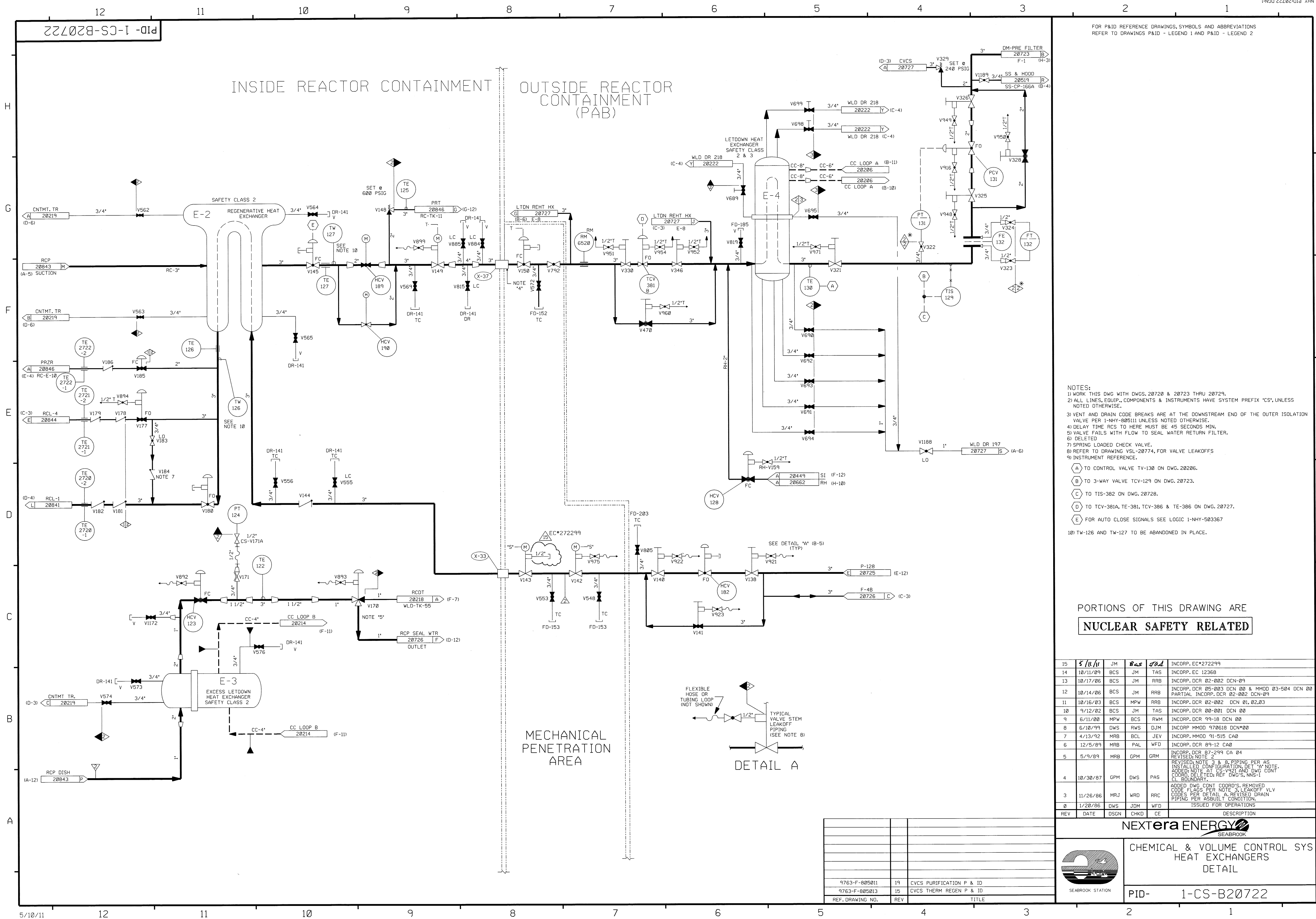
PID-	1-WLD-B20228
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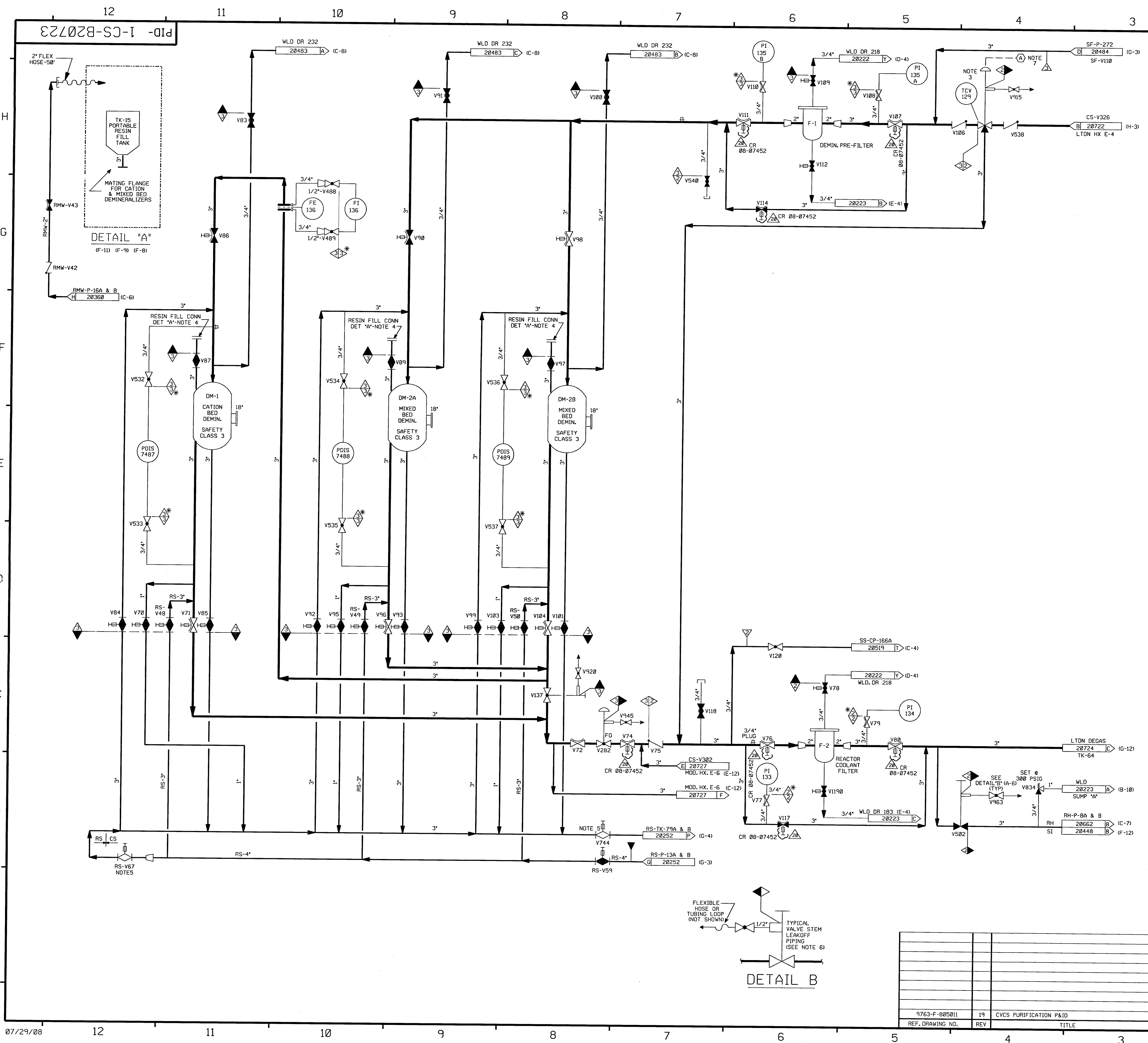
[illegible]

PID- 1-WLD-B20229



9763-F-805633	9	WPB FLR. & EQUIP. DRAIN SYS. SHT. 4
9763-F-805619	11	WL STOR. & FILT.
9763-F-805644	1	WPB FLR. & EQUIP. DRAIN SYS. SHT. 2
9763-F-805634	3	WPB FLR. & EQUIP. DRAIN SYS. SHT. 5
REF. DRAWING NO.	REV	TITLE



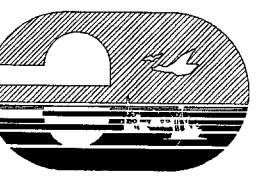


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DWG WITH DWGS. 20720, 20722, & 20724 THRU 20729.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX "CS", UNLESS NOTED OTHERWISE.
 3. VALVE FAILS WITH FLOW BY-PASSING THE DEMINERALIZERS & GOING TO CS-F-2
 4. BLIND FLOS. INSTALLED WITHOUT GASKET
 5. THIS VALVE TO BE CLOSED PRIOR TO ANY RESIN SLUICING OPERATIONS.
 6. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.
 7. INSTRUMENT REFERENCE
A LETDOWN EXCHANGER CS-E-4 & CS-E-8 OUTLET TEMP. TIS-129 & TIS-382 ON DWG. 20722
 8. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
 9. Δ INDICATES REVISION LEVEL.
 10. DELETED
 11. DELETED

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

20	7/3/08	JM	BCS	INCORP. CR 08-07452 REV 00	
19	11/16/06	JM	BCS	INCORP. MMOD 03-504 DCR 00	
18	11/2/00	MPW	BCS	INCORP. DCR 99-18 DCN 00	
17	6/12/00	BCS	DWS	PARTIAL INCORP. DCR 99-18 DCN 00	
16	1/10/97	MPW	BCS	INCORP. DCR 87-55 CA0 AND DCN 01	
15	3/21/96	BCS	DWS	INCORP. MMOD 940574 CA#01	
14	2/28/96	DWS	BCS	INCORP. MMOD 940574 CA#0	
13	3/4/94	MRB	BCL	INCORP. MMOD 92-553, CA01	
12	4/5/93	BCL	MPW	MMOD 91-507, CA0	
11	4/13/92	MRB	BCL	MMOD 91-515, CA0	
10	10/8/91	MRB	JM	INCORP. MMOD 91-511 CA0 AND MMOD 91-625, CA0	
9	2/26/91	MRB	RMC	INCORP. MMOD 90-648 CA01	
8	9/24/90	MRB	BMC	INCORP. MMOD 90-516 CA0	
7	5/24/89	MRB	GPM	INCORPORATED DCR 87-264 CA 09 REVISED NOTE 2	
6	5/25/88	GPM	APL	INCORP. DCR 87-323 REV'D PIPING PER AS INSTALLED CONF.; VALVE POSITION PER DWG. 506272 ADDED DETAIL B, NOTE AT CS-V963 & CLASS DESIGNATION DELETED; REF. DWG. NNS-1 CL. BOUNDARY	
5	3/20/87	MRJ	WDS	ADDED 3" AND FLANGE PER ECA 99/116756A ADDED NOTE AND DWG COORD'S. FOR DETAIL A, ADDED CONT FLAG LETTERS AND NOTE 9, DELETED DETAIL 'B'.	
4	12/12/86	JDM	PAL	INCORP. ECA 99/116756A	
3	10/17/86	MAP	WRD	ADDED DWG LOC COORD, DELETED CLASS BREAKS & CODE BREAKS, ADDED NOTE 8 REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS.	
2	8/22/86	MPW	GRD	REINCORP. ECA 99/114510A, INCORP. NCR 82/11787, DCN 88/177A, ADDED VALVES RM-V8026 THRU V8030, ADDED VALVE V8069 PER 17-11272, CORRECTED CONTINUATIONS & REV'D PER AS-BUILT CONFIG.	
1	6/23/86	WES	DWS	INCORPORATED ECA 99/114510A, 99/100849A, INCORP. 805011-REV 19	
0	1/22/86	DWS	JDM	ISSUED FOR OPERATIONS	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

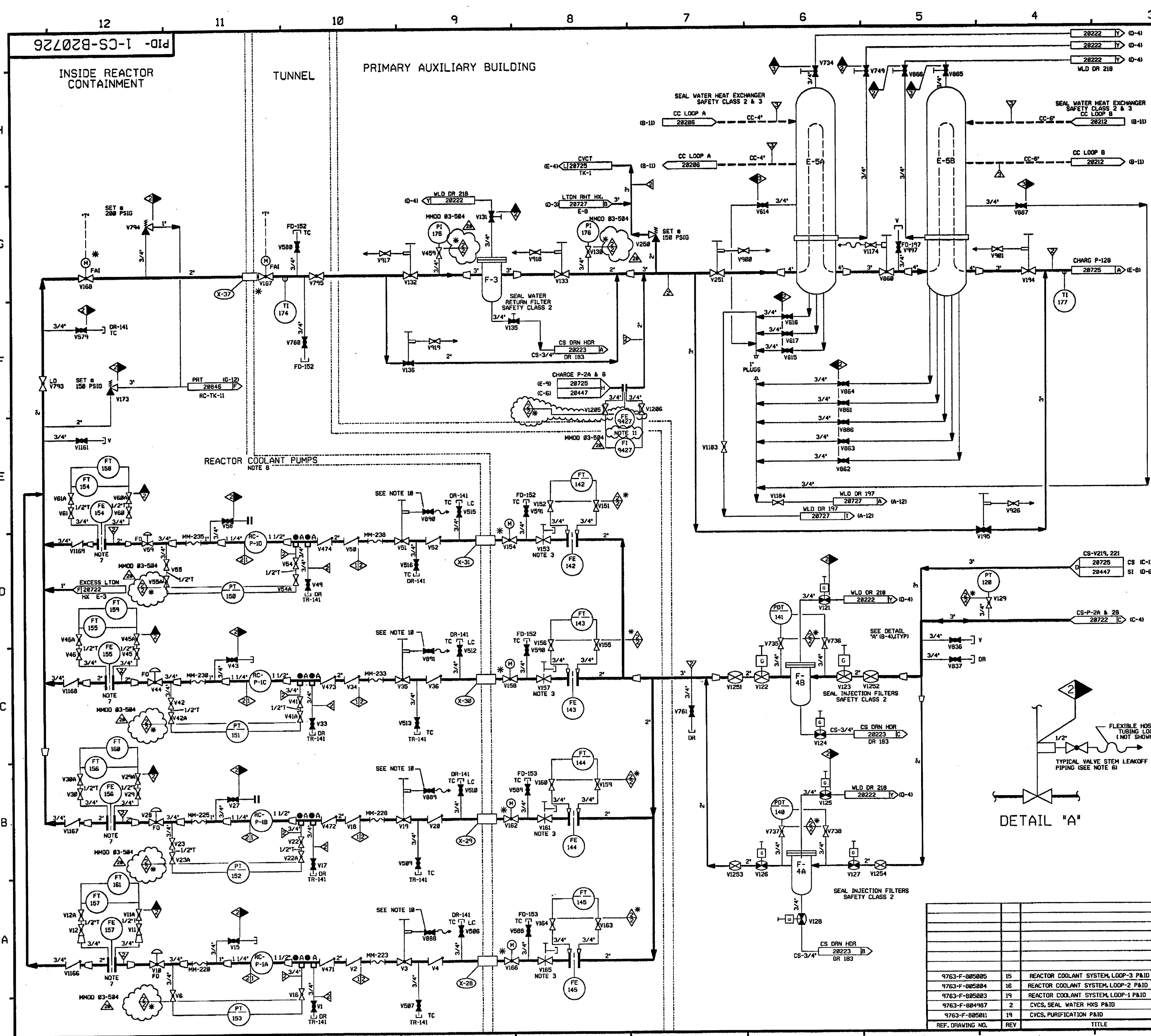
**FPL ENERGY**

Seabrook Station

CHEMICAL & VOLUME CONTROL SYS.
PURIFICATION
DETAIL

PID- 1-CS-B20723

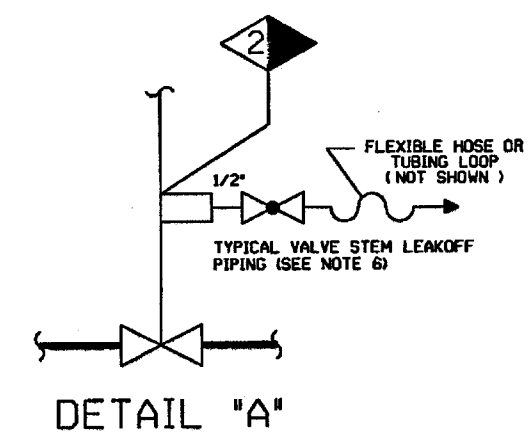
9763-F-805011	19	CVCS PURIFICATION P&ID
REF. DRAWING NO.	REV	TITLE



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

- NOTES:
1. WORK THIS DWG WITH DWGS. 28720, 28722 THRU 28725 & 28727 THRU 28729.
 2. ALL PIPING, VALVES, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX 'CS', UNLESS NOTED OTHERWISE.
 3. 2" NEEDLE VALVE WITH 1" INTERNALS.
 4. * INDICATES 3/8" FLOW RESTRICTOR INSTALLED. SEE APPLICABLE DETAIL ON DWG RC-28846.
 5. VENTS, DRAINS & TEST CONN. CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-HR-58811 UNLESS NOTED OTHERWISE.
 6. REFER TO DRAWING VSL-28774 FOR VALVE LEAKOFFS.
 7. ORIFICE PLATE IS NON-ASME.
 8. REACTOR COOLANT PUMPS SHOWN ON DWG'S.
 9. Δ INDICATES REVISION LEVEL.
 10. VALVE STEM LEAK-OFF ISOLATION VALVES V888, V889, V890 & V891 ARE TO BE MAINTAINED CLOSED. VALVE STEM LEAK-OFF TO BE CONSIDERED INOPERABLE.
 11. NON-ASME FLOW ELEMENT. MMOD 83-584

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED



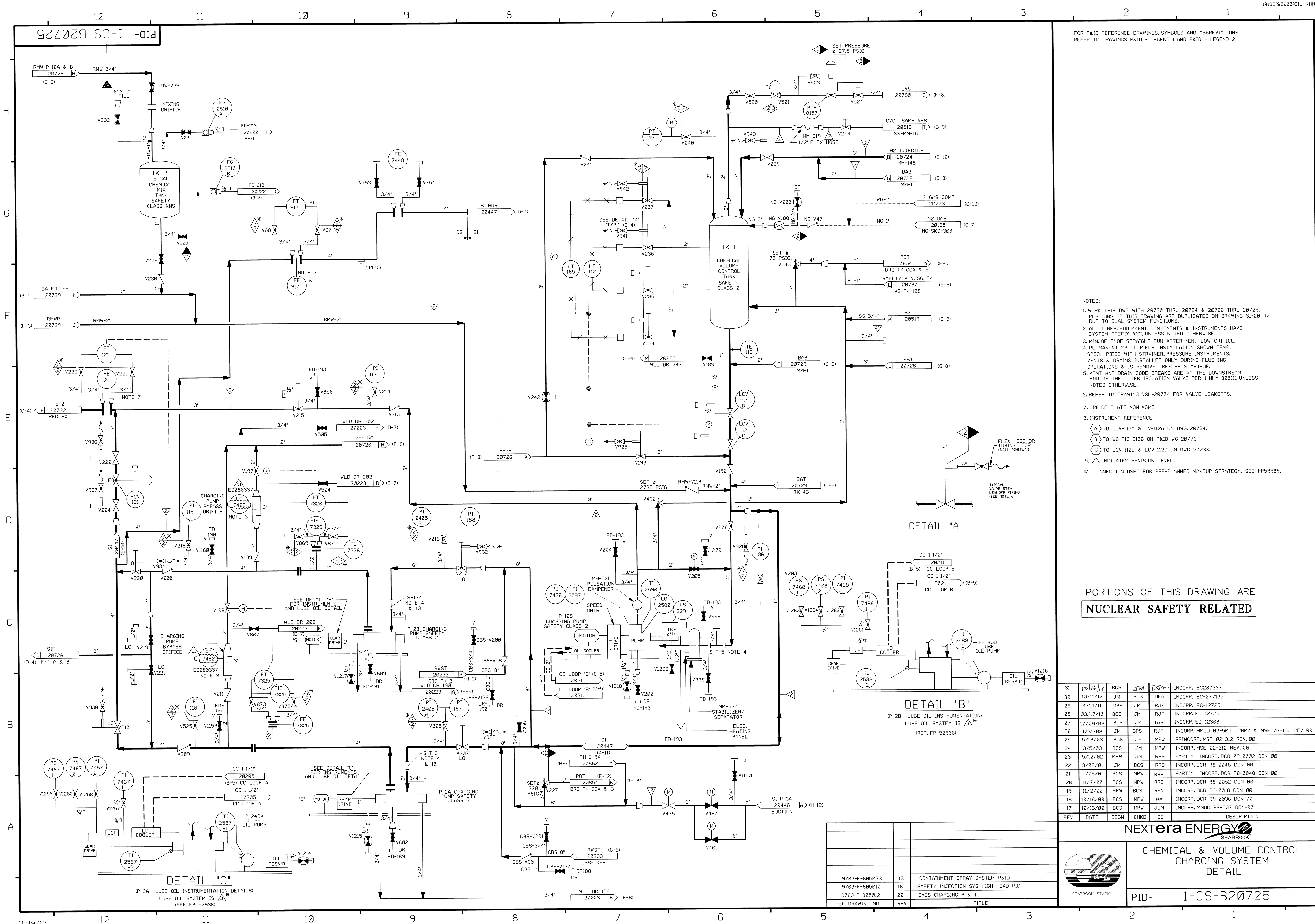
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
28	9/22/06	BCS	JM	PJT	INCCORP MMOD 83-584 DCN-88
19	4/23/99	DWS	BCS	GRM	INCCORP DCR 980045 DCN-84
18	7/1/97	MPW	DWS	JEV	DCR 980007 CA-88 (FINAL)
17	6/13/97	DWS	MPW	JEV	INCCORP DCR 970000 DCN-88 & DCR 980007 CA-88 (PARTIAL)
16	5/16/97	MPW	DWS	WFZ	INCCORP DCR 97-16 CA-8
15	2/25/97	BCS	MPW	RCP	INCCORP DCR 94-46 CA-8
14	11/28/96	MPW	BCS	RBB	INCCORP DCR 88-118 CA-8
13	4-24-94	BCL	MPW	MMOD	INCCORP MMOD-93-517 CA-8
12	4-5-93	BCL	MPW	WFZ	INCCORP MMOD-91-587 CA-8

FPL ENERGY Seabrook Station

CHEMICAL & VOLUME CONTROL SYS.
SEAL WATER
DETAIL

PID- 1-CS-B20726

REF. DRAWING NO.	REV	TITLE
9763-F-805005	15	REACTOR COOLANT SYSTEM, LOOP-3 P&ID
9763-F-805004	16	REACTOR COOLANT SYSTEM, LOOP-2 P&ID
9763-F-805003	19	REACTOR COOLANT SYSTEM, LOOP-1 P&ID
9763-F-804987	2	CVCS, SEAL WATER HXS P&ID
9763-F-805011	19	CVCS, PURIFICATION P&ID



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 20720 THRU 20724 & 20726 THRU 20729. PORTIONS OF THIS DRAWING ARE DUPLICATED ON DRAWING SI-20447 DUE TO DUAL SYSTEM FUNCTIONS.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX 'CS', UNLESS NOTED OTHERWISE.
 3. MIN. OF 5' OF STRAIGHT RUN AFTER MIN. FLOW ORIFICE.
 4. PERMANENT SPOOL PIECE INSTALLATION SHOWN TEMP.
 5. SPOOL PIECE WITH STRAINER, PRESSURE INSTRUMENTS, VENTS & DRAINS INSTALLED ONLY DURING FLUSHING OPERATIONS & IS REMOVED BEFORE START-UP.
 6. VENT AND DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111 UNLESS NOTED OTHERWISE.
 7. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.
 8. ORFICE PLATE NON-ASME
 9. INSTRUMENT REFERENCE
 10. CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FP59989.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
31	12/16/13	BCS	JM	DEA	INCORP. EC280337
30	10/11/12	JM	BCS	DEA	INCORP. EC-277135
29	4/14/11	GPS	JM	RJF	INCORP. EC-12725
28	03/17/10	BCS	JM	RJF	INCORP. EC 12725
27	10/29/09	BCS	JM	TAS	INCORP. EC 12368
26	1/31/08	JM	GPS	RJF	INCORP. MMOD 03-504 DCN00 & MSE 07-183 REV 00
25	5/19/03	BCS	JM	MPW	REINFORP. MSE 02-312 REV. 00
24	3/5/03	BCS	JM	MPW	INCORP. MSE 02-312 REV. 00
23	5/12/02	MPW	JM	RRB	PARTIAL INCORP. DCR 02-0002 DCN 00
22	8/08/01	JM	BCS	RRB	INCORP. DCR 98-0048 DCN 00
21	4/05/01	BCS	MPW	RRB	PARTIAL INCORP. DCR 98-0049 DCN 00
20	11/7/00	BCS	MPW	RRB	INCORP. DCR 98-0052 DCN 00
19	11/2/00	MPW	BCS	RPN	INCORP. DCR 99-0018 DCN 00
18	10/18/00	BCS	MPW	WA	INCORP. DCR 99-0036 DCN-00
17	10/13/00	BCS	MPW	JCM	INCORP. MMOD 99-507 DCN-00

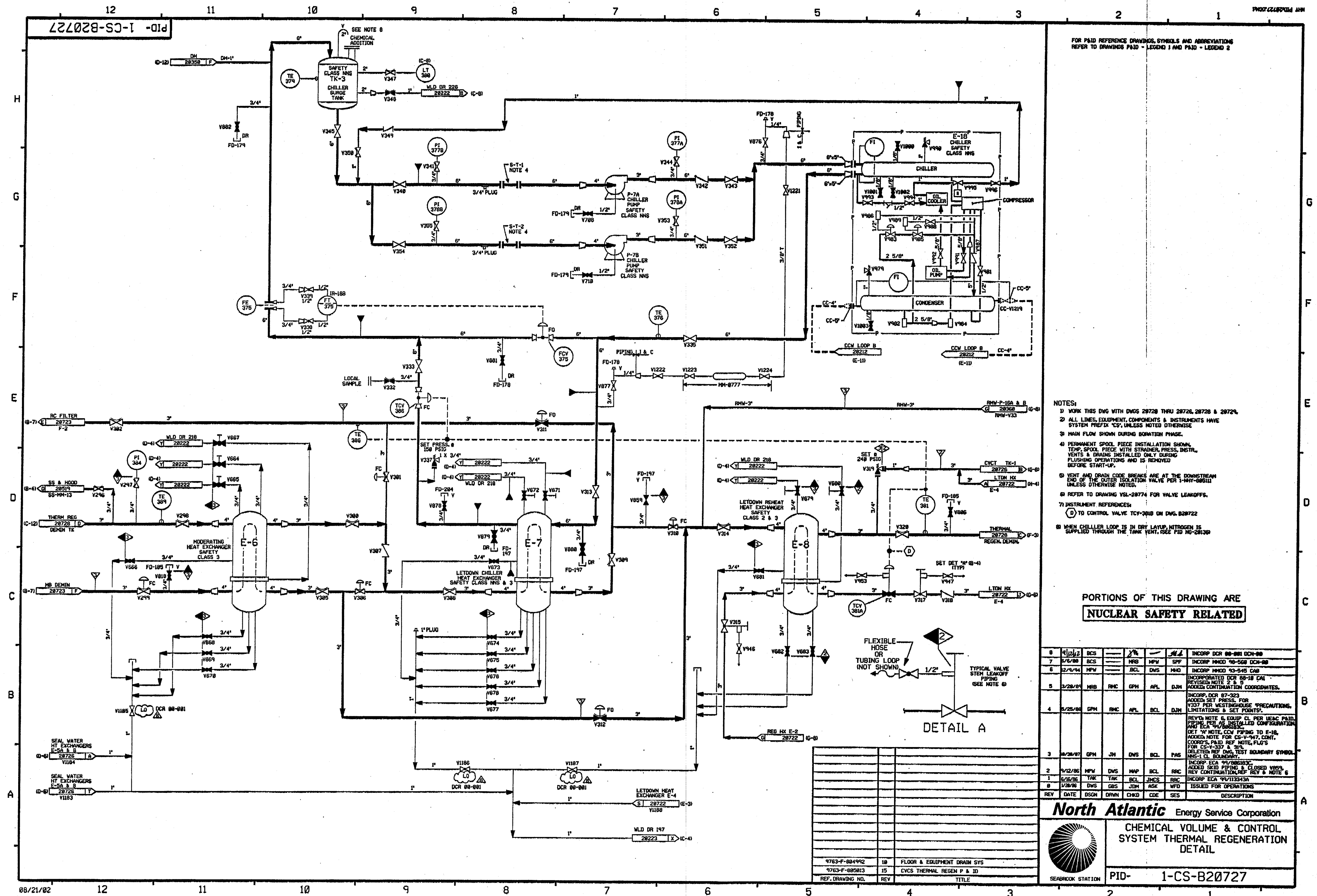
NEXTERA ENERGY
SEABROOK

**CHEMICAL & VOLUME CONTROL
CHARGING SYSTEM
DETAIL**

PID-1-CS-B20725

SEABROOK STATION

REF. DRAWING NO.	REV	TITLE
9763-F-805023	13	CONTAINMENT SPRAY SYSTEM P&ID
9763-F-805010	18	SAFETY INJECTION SYS HIGH HEAD PID
9763-F-805012	20	CVCS CHARGING P & ID



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

NOTES:

- 1) WORK THIS DWG WITH DWGS 28729 THRU 28726, 28728 & 28724.
- 2) ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX 'CS', UNLESS NOTED OTHERWISE.
- 3) MAIN FLOW SHOWN DURING BORATION PHASE.
- 4) PERMANENT SPOOL, PIECE INSTALLATION SHOWN, TEMP. SPOOL, PIECE WITH STRAINER, PRESS. INSTR., VENTS & DRAINS INSTALLED ONLY DURING FLUSHING OPERATIONS AND IS REMOVED BEFORE START-UP.
- 5) VENT AND DRAIN CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-INCH-60611 UNLESS OTHERWISE NOTED.
- 6) REFER TO DRAWING YSL-28774 FOR VALVE LEAKOFFS.
- 7) INSTRUMENT REFERENCES:
 - (D) TO CONTROL VALVE TCV-3818 ON DWG. B29722
- 8) WHEN CHILLER LOOP IS IN DRY LAYUP, NITROGEN IS SUPPLIED THROUGH THE TANK VENT, SEE FIG. NY-28139.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

8	9/12/72	BCS		Y/N	—	SL	INCORP DCR 88-281 DCR-28
2	5/6/68	BCS		NBL	MPW	SFO	INCORP INMCO 88-568 DCR-28
6	2/4/74	MPW		MCL	DWS	MPH	INCORP INMCO 93-545 CAB
5	3/28/84	NBL	RMC	GPH	APL	DJM	INCORPORATED DCR 88-18 CMI REVISED NOTE 2 & 3 ADDED CONTINUATION COORDINATES.
4	5/25/68	GPH	RMC	APL	BCL	DJM	INCORP DCR 87-323 ADDED SE PRESS. FOR NOTES FOR WESTINGHOUSE PRECAUTIONS. LIMITATIONS & SET POINTS.
3	10/28/67	GPH	JN	DWS	BCL	PMS	REV'D NOTE 6 EQUIP CL PER IEAC PAID. PIPING PER AS INSTALLED CONFIGURATION AND ECA 94/981830. DET "A" NOTE, CCW PIPING TO E-16, ADDED NOTE FOR CS-V-947, CONT. COORDS, PAID REF NOTE, FLUGS FOR CS-V-337 & 34. DELETED REF NOTE SET BOUNDARY SYMBOL NMS-1 CL BOUNDARY.
2	9/12/85	MPW	DWS	MAP	BCL	RRC	INCORP ECA 94/981830 ADDED SCW PIPING & ADDED VESS. REV CONTINUOUSLY. REV & NOTE 6
1	6/8/86	YAK	TAK	DCL	JMS	RRC	INCORP ECA 94/13343A
0	1/28/86	DWS	GBS	JDN	ASK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SECS	DESCRIPTION

North Atlantic Energy Service Corporation

CHEMICAL VOLUME & CONTROL SYSTEM THERMAL REGENERATION DETAIL



SEABROOK STATION

PID- 1-CS-B20727





NOTES:

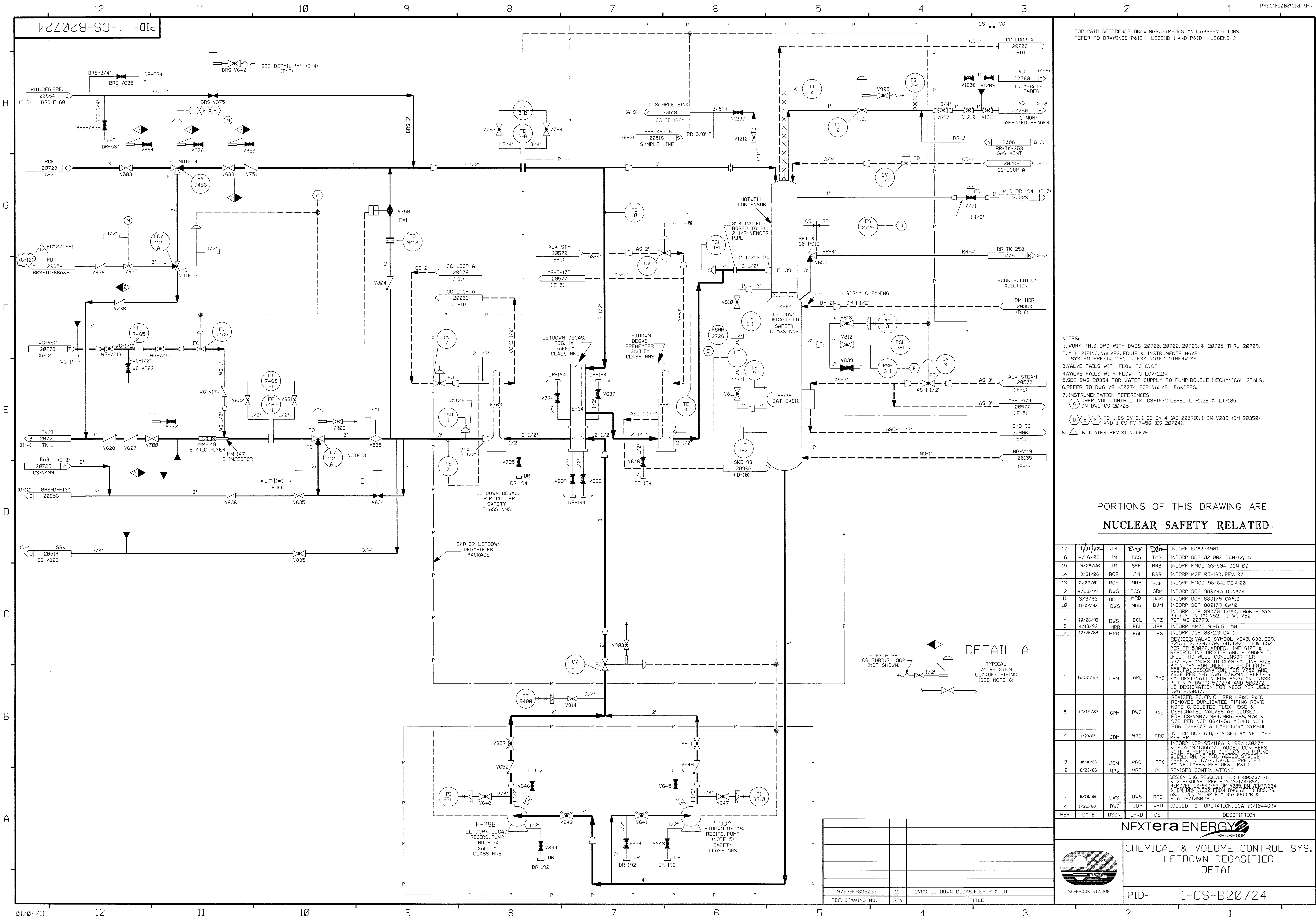
1. WORK THIS DWG WITH 20720 & 20722 THRU 20728.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREPARED, CS, UNLESS NOTED OTHERWISE.
3. ALL BORIC ACID & BATCHING TANK EQUIP & PIPING SHOWN IS LOCATED IN AREA MAINTAINED AT A CONTROLLED TEMPERATURE
4. VALVE IS LOCKED INTO POSITION DURING OPERATIONAL TESTING TO LIMIT PUMP RUNOUT TO 75 GPM WHEN TRANSFERRING BATCHING TANK CONTENTS TO BORIC ACID TANK.
5. REFER TO DWG VSL-20774 FOR VALVE LEAKOFFS.
6. DELETED

19	6/11/14	BCS	JM	ML	INCORP EC-281081
18	2/19/14	JM	BCS	CIT	INCORP EC-280958
17	4/27/10	BCS	MW	RJF	PARTIAL INCORP EC 12725
16	11/16/06	BCS	BCS	RRB	INCORP MMOD 03-584 DCN 00
15	1/27/05	BCS	JM	RRB	INCORP. CR 05-00034 REV. 00
14	10/16/03	BCS	MPW	RRB	INCORP. DCR 02-013 DCN-00, 01, 02
13	8/27/03	BCS	JM	MR	INCORP. MMOD 03-515 DCN-00
12	5/12/03	JM	MPW	BCS	INCORP. CR 02-07592 REV 00
11	4/22/99	BCS	RWS	GRM	INCORP DCR 980052 DCN00, DCR 980045 DCN00 & REINCORPORATED DCR 950830 DCN01
10	9/16/97	DWS	MPW	BAW	INCORP DCR 95-30 DCN 03
9	6/13/97	MPW	DWS	WNF	INCORP DCR 95-30 DCN 00
8	10/8/92	DWS	MRB	DMP	INCORP DCR 890073 CA#0 & 1
7	4/28/92	MRB	BCL	RRB	INCORP. MMOD 91-515 CA0
6	12/16/91	FCB	RRB	BCL	INCORP. MMOD 91-511 CA01
5	3/16/89	MRB	GPM	MJY	INCORPORATED DCR 88-142 REVISED NOTE 2, V40 & V400 OPERATOR SYMBOL
4	12/15/87	GPM	DWS	PAG	REVISED NOTE 5, VALVE NO. ADDED FLO-2 AT FT119, PLUGS AT 7494 & 7495, NOTE FOR V419, CONT. COORD'S CLASS DESIGNATION, P&ID REF DWG NOTE & UE&C P&ID REF DWG. DELETED REF DWG, N&S-1 CL BOUNDARY, REUNDANT SYS DWG, CONT.
3	10/8/86	JDM	MAP	RRB	INCORP ECA'S 08/118374 & 08/118448A
2	8/22/86	BCL	WRD	PHH	REVISED TO REFLECT AS-BUILT CONFIGURATIONS, ADDED TO TRACING & CONTINUATION REF. REVISED NOTE 5.
1	6/13/86	JDM	DWS	RRB	UPDATE REF DWG REV NO & REVISE ACCORDINGLY INCORP NCR 82/11758 REVISED RVC SUPPLY TO TK-5, INCORP ECA 19/112818A & ECA 19/600202B.
0	1/22/86	DWS	JM	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION



SEABROOK STATION

PID-	1-CS-B20729
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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 20720, 20722, 20723, & 20725 THRU 20729.
 2. ALL PIPING, VALVES, EQUIP & INSTRUMENTS HAVE SYSTEM PREFIX 'CS', UNLESS NOTED OTHERWISE.
 3. VALVE FAILS WITH FLOW TO CVCT
 4. VALVE FAILS WITH FLOW TO LCV-112A
 5. SEE DWG 20354 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 6. REFER TO DWG VSL-20774 FOR VALVE LEAKOFFS.
 7. INSTRUMENTATION REFERENCES
(A) CHEM VOL CONTROL TK (CS-TK-1) LEVEL LT-112E & LT-185 ON DWG CS-20725
(D-E-F) TO 1-CS-CV-3, 1-CS-CV-4 (AS-20570), 1-DM-V285 (DM-20350) AND 1-CS-FV-7456 (CS-20724).
 8. INDICATES REVISION LEVEL

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

17	1/11/12	JM	BCS	DJM	INCORP EC*274981
16	4/16/08	JM	BCS	TAS	INCORP DCR 02-002 DCN-12, 15
15	9/28/06	JM	SPF	RRB	INCORP MMOD 03-504 DCN 00
14	3/21/06	BCS	JM	RRB	INCORP MSE 05-160, REV. 00
13	2/27/01	BCS	MRB	RCP	INCORP MMOD 98-641 DCN-00
12	4/23/99	DWS	BCS	GRM	INCORP DCR 980045 DCN*04
11	3/3/93	BCL	MRB	DJM	INCORP DCR 880179 CA*16
10	11/02/92	DWS	MRB	DJM	INCORP DCR 880179 CA*00
9	10/26/92	DWS	BCL	WFZ	INCORP DCR 890001 CA*00, CHANGE SYS PREFIX ON CS-V52 TO WG-V52 PER WG-20773.
8	4/13/92	MRB	BCL	JEV	INCORP MMOD 91-515 CA*00
7	12/20/89	MRB	PAL	ES	INCORP DCR 86-113 CA 1
6	6/30/88	GPM	APL	PAS	REVISED: VALVE SYMBOL V640, 638, 639, 725, 637, 724, 654, 641, 642, 651 & 652 PER FP 53072, ADDED: LINE SIZE & RESTRICTING ORIFICE AND FLANGES TO INLET HOTWELL CONDENSOR PER 53758, FLANGES TO CLARIFY LINE SIZE BOUNDARY FOR INLET TO E-139 FROM 655, F&I DESIGNATION FOR V750 AND V838 PER NHY DWG 506294 DELETED; F&I DESIGNATION FOR V625 AND V633 PER NHY DWG 506274 AND 506272; F&I DESIGNATION FOR V635 PER UE&C DWG 806037.
5	12/15/87	GPM	DWS	PAS	REVISED: EQUIP. CL PER UE&C P&ID, REMOVED DUPLICATED PIPING, REV'D NOTE 6, DELETED FLEX HOSE & DESIGNATED VALVES AS CLOSED FOR CS-V907, 964, 965, 966, 976 & 972 PER NCR 86/145A, ADDED NOTE FOR CS-V907 & CAPILLARY SYMBOL.
4	1/23/87	JDM	WRD	RRC	INCORP DCR 618, REVISED VALVE TYPE PER FP.
3	10/16/86	JDM	WRD	RRC	INCORP NCR 95/116A & 99/113027A & ECA 19/105527C, ADDED CON REFS NOTE 8, REMOVED DUPLICATED PIPING SHOWN ON NG PID, ADDED SYSTEM PREFIX TO CV-4, CV-3, CORRECTED VALVE TYPES PER UE&C P&ID.
2	8/22/86	MPW	WRD	PHH	REVISED CONTINUATIONS
1	6/16/86	DWS	DWS	RRC	DESIGN CHG1 RESOLVED PER F-805037-R11 & 2 RESOLVED PER ECA 19/104469A, REMOVED CS-SKD-93, DM-V285, DM-VENTIV234 & DM DRN (V382) FROM DWG, ADDED BRS, AS, SSC CONT, INCORP ECA 05/106102B & ECA 19/106028C.
0	1/22/86	DWS	JDM	WFO	ISSUED FOR OPERATION, ECA 19/104469A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

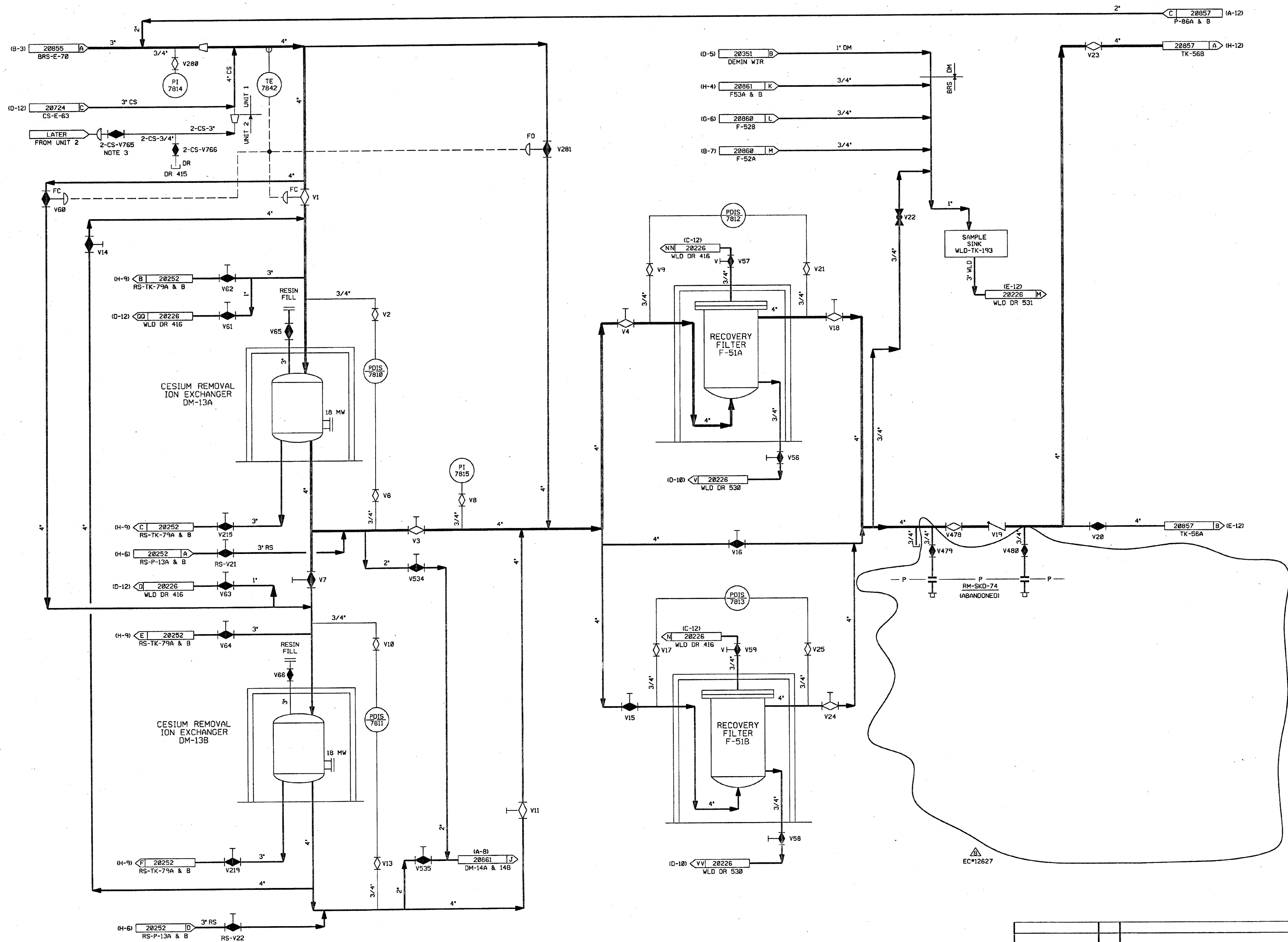


NEXTERA ENERGY
SEABROOK
CHEMICAL & VOLUME CONTROL SYS.
LETDOWN DEGASIFIER
DETAIL
PID- 1-CS-B20724

9763-F-805037	11	CVCS LETDOWN DEGASIFIER P & ID
REF. DRAWING NO.	REV	TITLE

PID-1-BRS-B20856

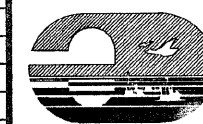
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
 2. WORK THIS DWG WITH DWG'S 20853, 20854, 20855, 20857, 20858, 20859, 20860 & 20861
 3. VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION
 4. Δ INDICATES REVISION LEVEL
 5. ALL LINES, EQUIPMENT, COMPONENTS AND INSTR. ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 6. DELETED.

8	3/17/09	JM	Bes	DTM	INCRP. EC*12627
7	10/8/91	MRB	JM	ES	INCRP. MM00 91-625 CA0
6	9/18/91	GPM	JM	MAC	INCRP. DCR 90-14 CA01
5	2/26/91	MRB	RMC	BCL	INCRP. MM00 90-649 CA01
4	10/29/90	MRB	JM	BCL	INCRP. MM00 90-601 CA00
3	12/12/86	MPW	PAL	RRC	ADDED: NOTE 5 FOR INFORMATION PER FP-71202 AND NOTE 4.
2	9/26/86	MAP	JDM	RRC	ADDED VALVING & INSTRUMENT INFO FOR RM-SKD-74 PER FP-71200. REVISED DWG CONTINUATION, DELETED REF DWGS N/A.
1	6/23/86	GD	DHS	RRC	INCRP. ECA 19/116012A & 99/080008CHANGE ITEM #1 RESOLVED PER ECA 13/082019A
0	1/13/86	GD	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station



BORON RECOVERY SYSTEM
FILTRATION
DETAIL

PID- 1-BRS-B20856

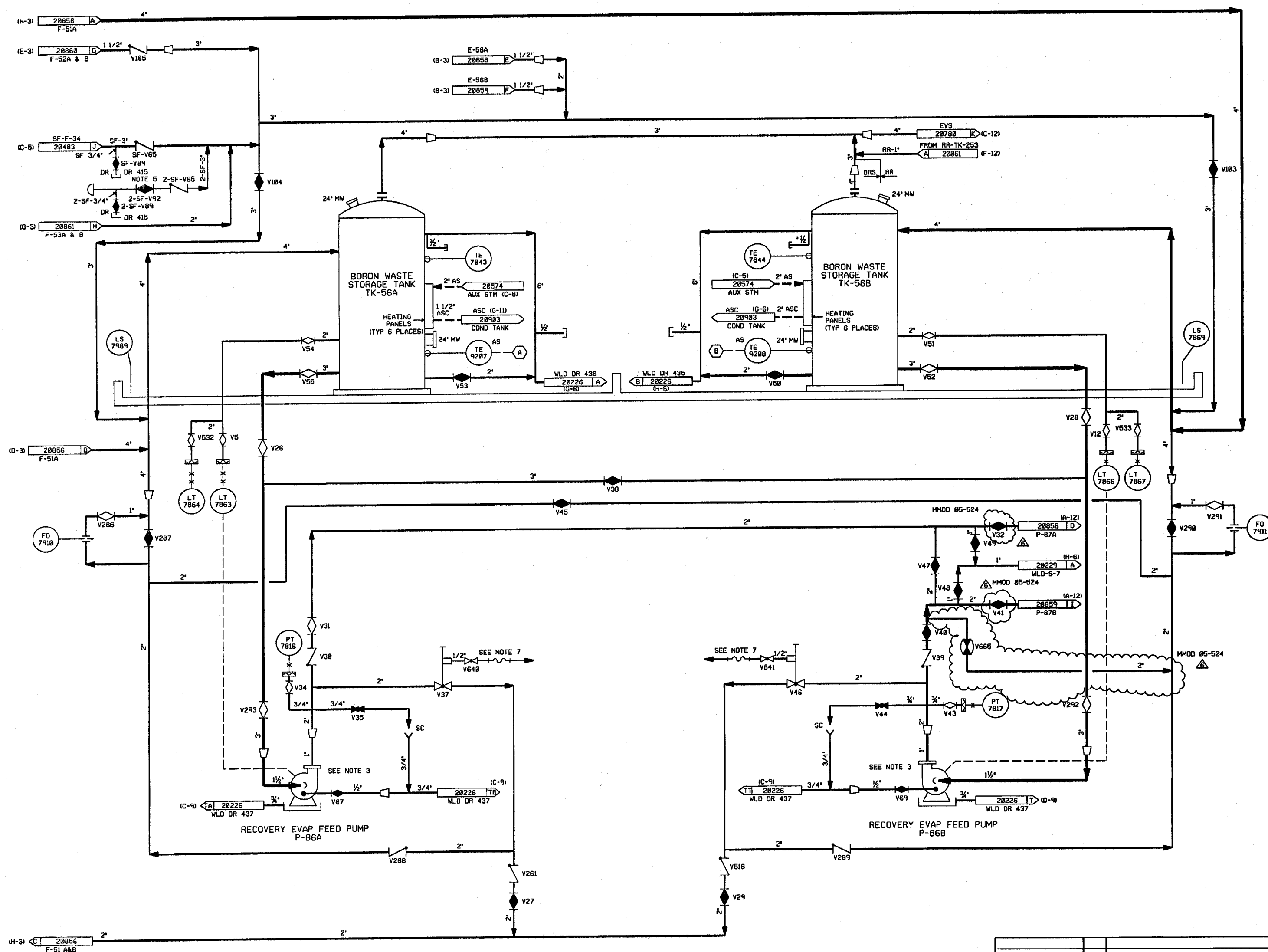
9763-F-805614	10	BORON RECOVERY SYS FILTR & STOR P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-BRS-B20857

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

H
G
F
E
D
C
B
A

H
G
F
E
D
C
B
A



- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "BRS" UNLESS NOTED OTHERWISE.
 2. WORK THIS DWG WITH DWG'S 20853, 20854, 20855, 20856, 20858, 20859, 20860 & 20861.
 3. SEE DRAWING DM-20353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 4. INSTRUMENT REFERENCES:
(A) TO TV-9287 ON DWG AS-20574 (D-11)
(B) TO TV-9288 ON DWG AS-20574 (E-10)
 5. VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION
 6. Δ INDICATES REVISION LEVEL
 7. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.
 8. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.

6	6/13/04	BCS	JLA	DJM	INCORP. MMOD 05-524 DCH-08, 03
5	11/7/02	MRB	BCL	DJM	INCORP. DCR 87-84 CAB REVISED NOTE 4, VALVE SYMBOL PER NOTE 5. ADDED: FLOW ARROWS, NOTE 6, DWG LDC COORDS. DELETED: NMS-1 SYMBOL.
4	5/28/02	MRB	MPW	DMS	INCORP. MMOD '91-511 CAB
3	6/18/87	GPH	BCL	VWS	REVISED TO CLARIFY DUPLICATION OF ASSOC. SYS. REF. LETTER FOR CONT. DWG'S ADDED NOTE 7, CONT. COORDS DELETED: REF. DWG'S.
2	4/12/86	MPW	BCL	RAC	ADDED CONTINUATIONS & REV. LOCATION OF PT-7816, 7817, 7863, 7864, 7866 & 7867 PER ERECTION 100'S 7914 VALVE DOWN
1	6/17/86	GO	JMCS	RAC	REMOVED DWG ITEMS 1 & 2 PER REF DWG 085614-REV 10, INCORP. ECA 19/35890 & ECA 19/1161240, REV. VALVE TAG
0	1/13/86	GO	ASK	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHNG	CE	DESCRIPTION

FPL ENERGY

Seabrook Station



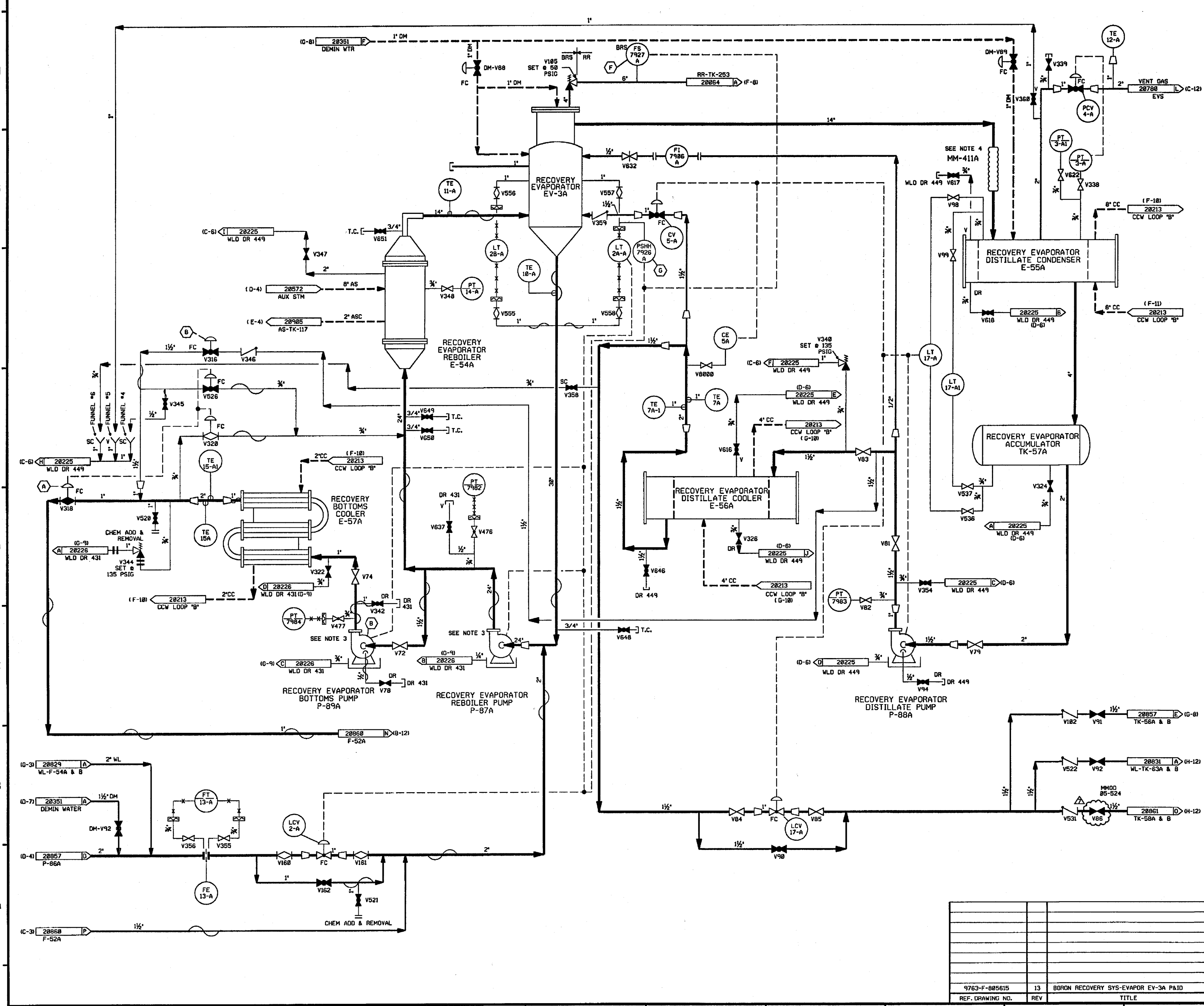
BORON RECOVERY SYSTEM
STORAGE
DETAIL

PID- 1-BRS-B20857

9763-F-885614	10	BORON RECOVERY SYS-FLTRA & STORG P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-BRS-B20858

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

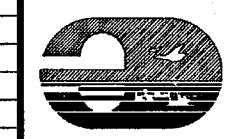


- NOTES:
- 1) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
 - 2) WORK THIS DWG WITH DWG'S 20853, 20854, 20855, 20856, 20857, 20859, 20860 & 20861.
 - 3) SEE DWG DM-28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 - 4) ENTIRE LINE IS FLEX CONN.
 - 5) INSTRUMENT REFERENCES:
 - (A) HIGH E-57A OUTLET TEMP. HIGH WS-TK-76 LEVEL AND LOW EV-38 LEVEL WS-TK-76 TRANSFER VALVE INTERLOCK.
 - (B) BRS-P-09A, DISTILLATE FLUSH V316 INTERLOCK.
 - (C) TO 1-DM-V88 ON DWG DM-28351 (H-7) & 1-BRS-FCV-1A ON DWG AS-20572 (D-6).
 - (D) TO 1-DM-V88 ON DWG DM-28351 (H-7) & 1-BRS-FCV-1A ON DWG AS-20572 (D-6).
 - 6) Δ INDICATES REVISION LEVEL.
 - 7) ALL LINES, EQUIPMENT COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS UNLESS NOTED OTHERWISE.

7	6/13/04	BCS	JM-4	DJM	INCORP MMDD 05-524 DCN-83
6	12/7/92	MRB	DWS	DJM	INCORP DCR 87-84 CA 28
5	11/7/92	MRB	BCL	DJM	INCORP DCR 87-84 CA28
					INCORP DCR 86-634 CA28 REVISED VALVE POSITION PER NHY PID DM-28351 ADDED LINE SIZE FOR CLARITY DELETED REDUNDANT INTERFACE INFO. & VALVE DIAPHRAGM SYMBOL PER UE&C PID 9763-F-805615
4	12/18/91	MRB	JM	GRM	INCORP DCR 86-587, CORRECTED DRAWING ERRORS. REVISED NOTE 7.
3	9/18/87	JDM	BCL	RRC	RE-INCORP ECA 86/116967A, ADDED V8800 CONTINUATION FLAG REF'S & NOTE 6. REVISED TUBING SYMBOL FOR PT-7982 PER UE&C P&ID AND CONTINUATION FLAG REF. ADDED P&ID LEGEND NOTE.
2	10/3/86	MRJ	BCL	RRC	INCORP ECA 86/116967A & 19/116983C ADDED REDUCER & FLANGS. CHANGE ITEM Δ RESOLVED PER LATEST UE&C P&ID
1	8/24/88	JDM	JNK	RRC	ISSUED FOR OPERATIONS
0	1/13/86	GD	JDM	WFD	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station



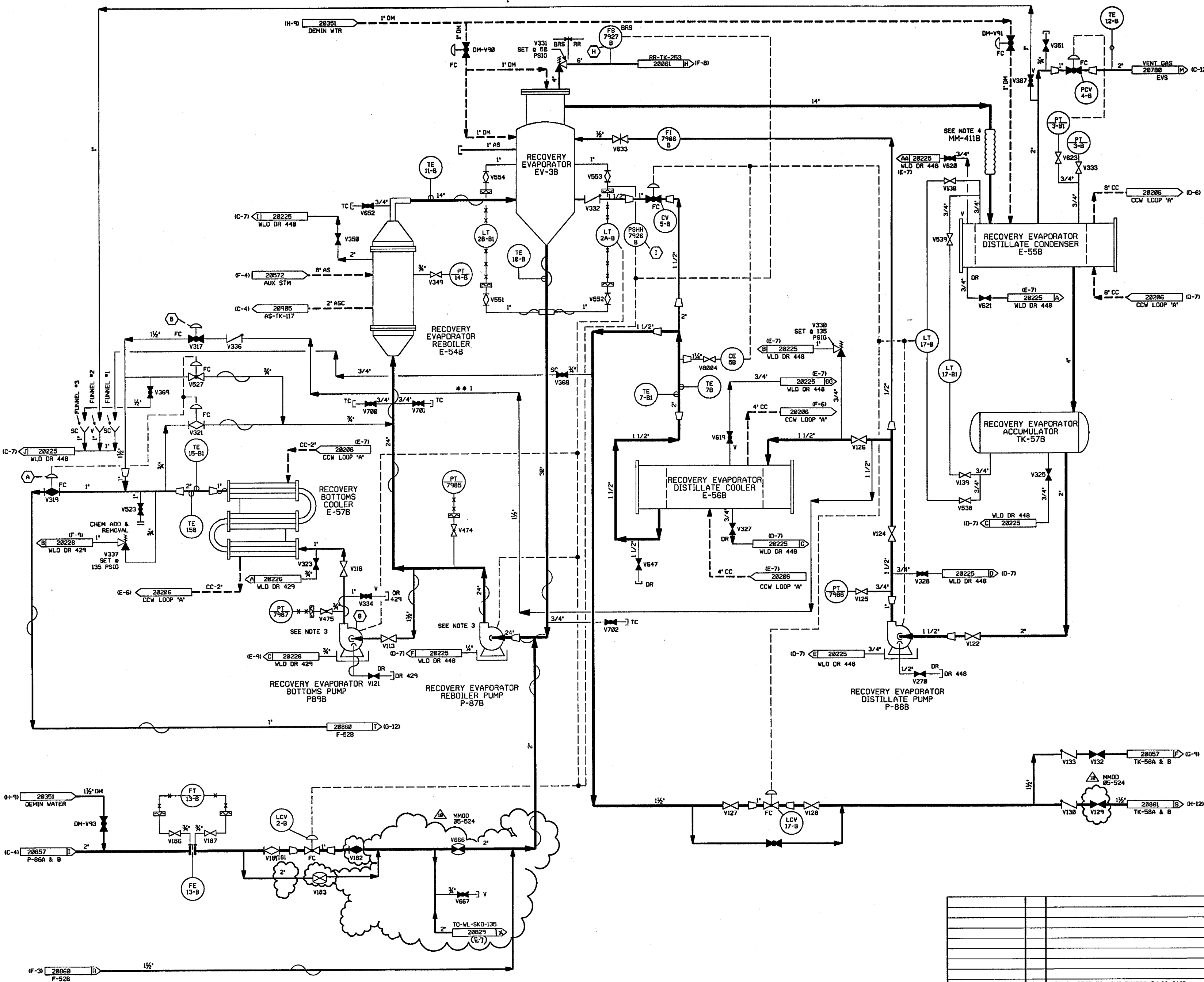
BORON RECOVERY SYSTEM
EVAPORATION
DETAIL

PID-1-BRS-B20858

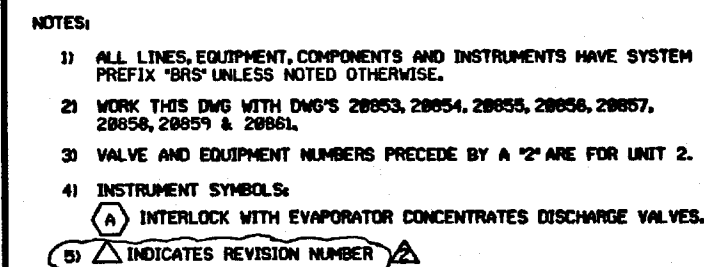
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REF. DRAWING NO.	REV	TITLE


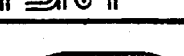
698078-BRS-1 P10

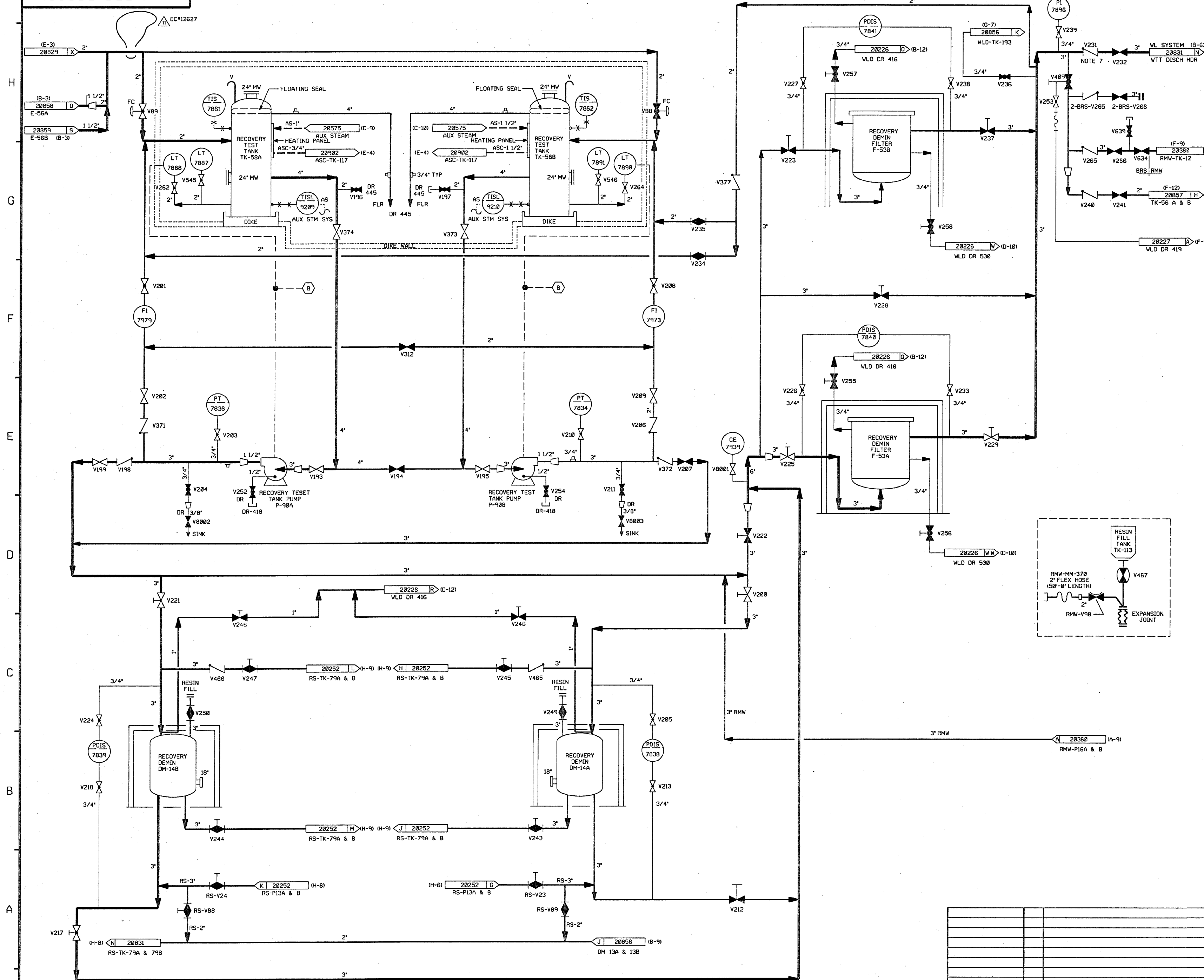
FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2





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



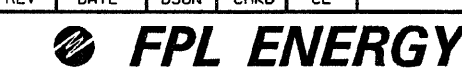
		PUBLIC SERVICE OF NEW HAMPSHIRE	
		BORON RECOVERY SYSTEM EVAPORATION DETAIL	
SEABROOK STATION		PID- 1-BRS-B20860	



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 "BRS" UNLESS OTHERWISE NOTED.
 2. WORK THIS DWG WITH DWGS 20853, 20854, 20855, 20856, 20857, 20858, 20859 & 20860.
 3. VALVE & EQUIPMENT NUMBERS PRECEDED BY A '2' ARE FOR UNIT 2.
 4.  INDICATES REVISION LEVEL
 5. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS UNLESS OTHERWISE NOTED.
 6. INSTRUMENT REFERENCES
 TO WL-FCV-1458-1 & 2, DRAWING WL-20831
 7. INTERNALS OF CHECK VALVE BRS-V231 HAVE BEEN REMOVED.

11	3/17/09	JM	BGS	DJM	INCORPORATED EC*12627
10	6/13/86	BGS	JM	JDT	INCRP. MMOD 05-524 DCN-00, 02
9	9/25/83	BGS	JM	JEM	INCORPORATED MSE 03-133 REV. 00
8	11/17/98	BGS	MPW	JCM	INCORPORATED DCR 98-029 DCN-01
7	10/21/98	BGS	DWS	DJM	INCORPORATED DCR 98-029 DCN-00
6	7/24/94	BCL	MPW	VWS	INCORPORATED MMOD 95-506 CA-0
5	3/28/89	MRS	PAL	MJY	INCORPORATED DCR 86-185 CA 3
4	5/25/88	GPM	APL	DJM	INCRP DCR 88-093 REVISED: INLETS TO DM-144 & B PER UE & C ISO, V8002.3 SYMBOL PER AS BUILT. CONDITION, PIPING TO CLARIFY ASSOCIATED SYSTEMS ADDED: NOTE 5 PER UE & C P & ID 895624, DWG CONT. LETTERS.
3	1/7/87	MRJ	WRD	RRC	RESOLVED CHANG. ITEM 1 PER AS-BUILT COND., CORRECTED INCRP. OF ECA 19/159648, DELETED NOTE 5.
2	10/17/86	CSB	MAP	RRC	INCRP ECA'S 99/1171274 & 19/159648, ADDED DWG CORR TO COR'T FLAGS, DIKE VAL. BOUNDARY, REF DWG NOTE 1, NOTE FOR DWG REV LEVEL, CHANGED V277 TO V227, REVISED P-HSA & B DISCH. HDR DRAIN VALVE & PIPING FOR DEMIN TKS DM-TK-144 & B.
1	6/18/86	DWS	DWS	RRC	CORRECTED V194 TO GATE, REVISED CONTINUATION, REVISED CHNG. ITEM NO.1 IN 895624 REV.12
0	1/13/86	GD	JDM	WFD	INCORPORATE ECA 05/180632 ISSUED FOR OPERATION
REV	DATE	DSGN	CHKD	CD	DESCRIPTION



Seabrook Station

BORON RECOVERY SYSTEM
TESTING & DEMINERALIZATION
DETAIL

PID- 1-BRS-B20861

[illegible]

FOR P&ID REFERENCES 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 'BRS' UNLESS NOTED OTHERWISE.
- WORK THIS DWG WITH DWG'S 20853, 20855, 20856, 20857, 20858, 20859, 20860 & 20861.
- SEE DRAWING DM-20853 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
- VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION.
- INDICATES REVISION LEVEL.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
- INSTRUMENT REFERENCES:
(D) FROM 1-BRS-FS-7925 ON DWG BRS-20855 (F-7)
(E) FROM 1-BRS-PSHH-7924 ON DWG BRS-20855 (F-7)
(J) FROM 1-BRS-PSH-3-1 ON DWG BRS-20855 (F-5)

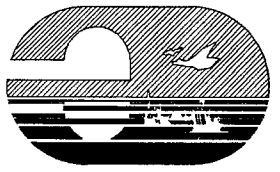
9	9/7/07	JM	BRS	FS	INCORP MSE 07-149 REV. 0
8	5/30/00	BCS	DWS	WFZ	INCORP MSE 00-124 REV. 0
7	6/6/99	DWS	RWS	DJM	INCORP MMD 970618 DCN#00
6	11/7/92	DWS	BCL	DJM	INCORP DCR 870084 CA#0 & 5
5	4-23-92	MRB	MPW	JEV	REMOVED REF. TO UNIT 2 (LATER) INCORP MMD'S 91-511 CAB & 91-515 CAB
4	5/26/89	MRB	PAL	IW	INCORP DCR 87-110 CA II REVISED: CONT. COORD. ADDED: NOTE 6
3	1/6/88	MPW	DWS	MJY	INCORP DCR 87-314 & ECA 19/10/1717A UNIT 2 VALVES SHOWN CLOSED PER NOTE 4; REVISED: FLOW ON BYPASS LINE, CONT. COORDINATES ADDED; FLOW ARROW TO TK-66A.
2	10/3/86	CSB	BCL	RRC	REV'D WG 1" LINE (FROM WG-P-263) TO AGREE WITH P&ID 20222 & REV'D CONT FLAG (20771) ADDED: P&ID BOUNDARY, CONT. FLAG IDENT LETTER 'C' (20519) & 'H' (20855) ADDED: LCV-1124 TO CONT FLAG (20724) ADDED: NOTE 5.
1	6/19/86	JDM	DWS	RRC	REMOVED CHANGE ITEMS 1 & 2, INCORP. ECA'S 19/24898, 19/116021A, 19/116172A, AND 085626 REV. 11
0	1/13/86	GO	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

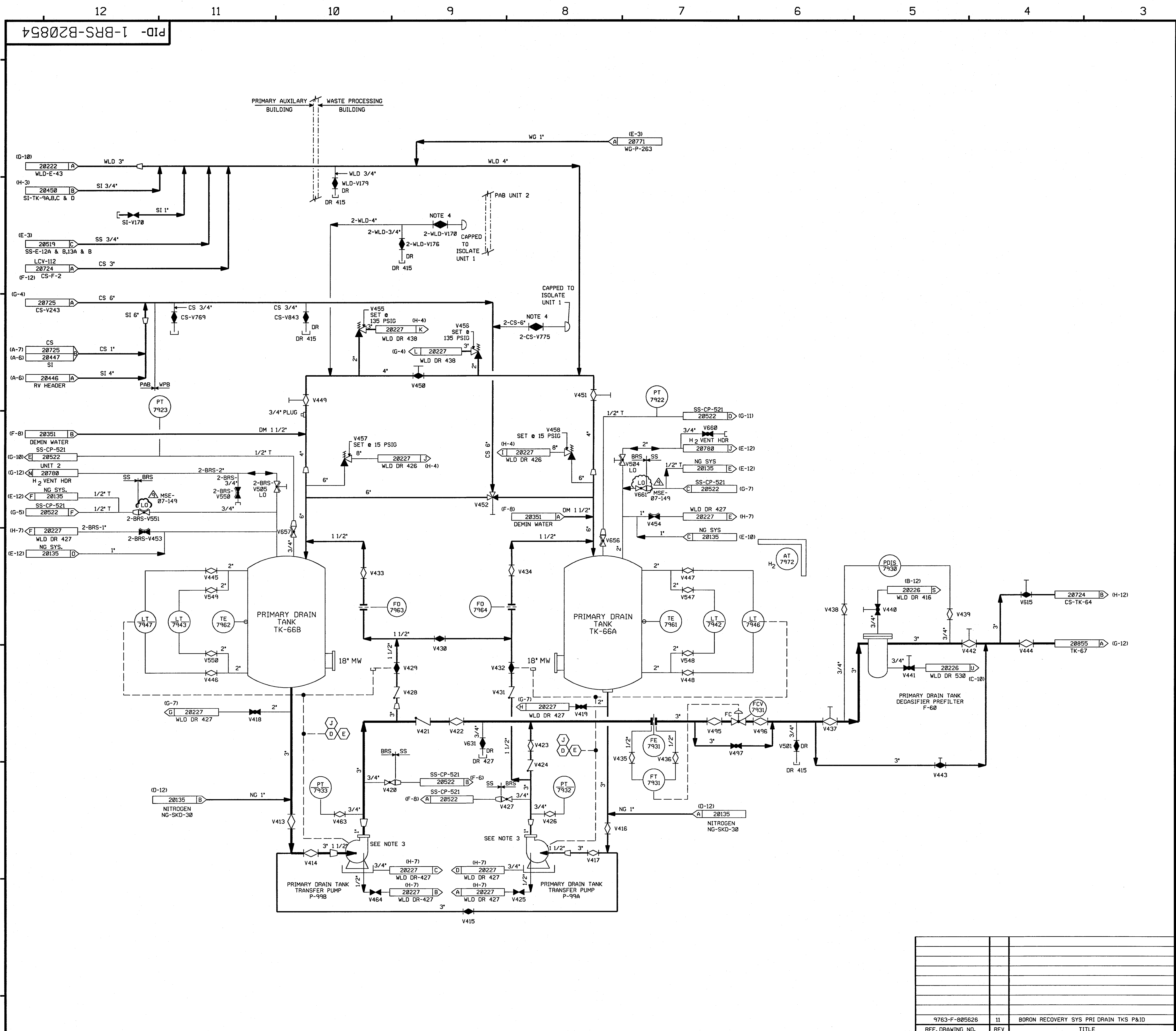
Seabrook Station

BORON RECOVERY SYSTEM
DEGASIFICATION
DETAIL

PID- 1-BRS-B20854



9763-F-805626	11	BORON RECOVERY SYS PRI DRAIN TKS P&ID
REF. DRAWING NO.	REV	TITLE



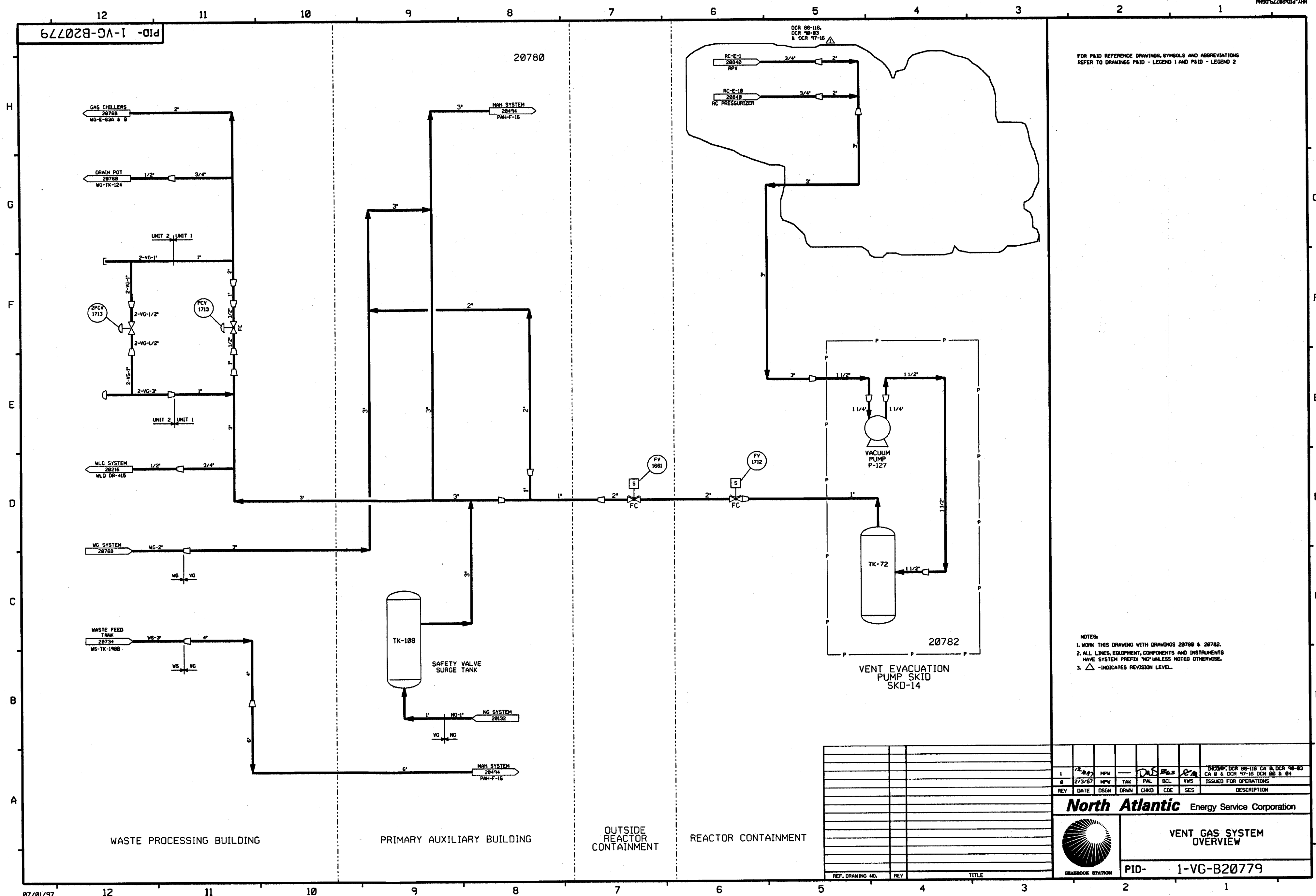
TO 1-AS-CV-3, 1-AS-CV-4 ON DWG AS-20573 (D-9).
TO 1-BRS-P-99A & B ON DWG BRS-20854 (C-8) (C-10).
TO 1-DM-V98 ON DWG DM-20351 (C-12)



SEABROOK STATION

PID-	1-BRS-B20855
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9763-F-805618	10	BORON RECOV SYS-PRIM DRAIN TK DEGAS P&ID
REF DRAWING NO.	REV.	TITLE

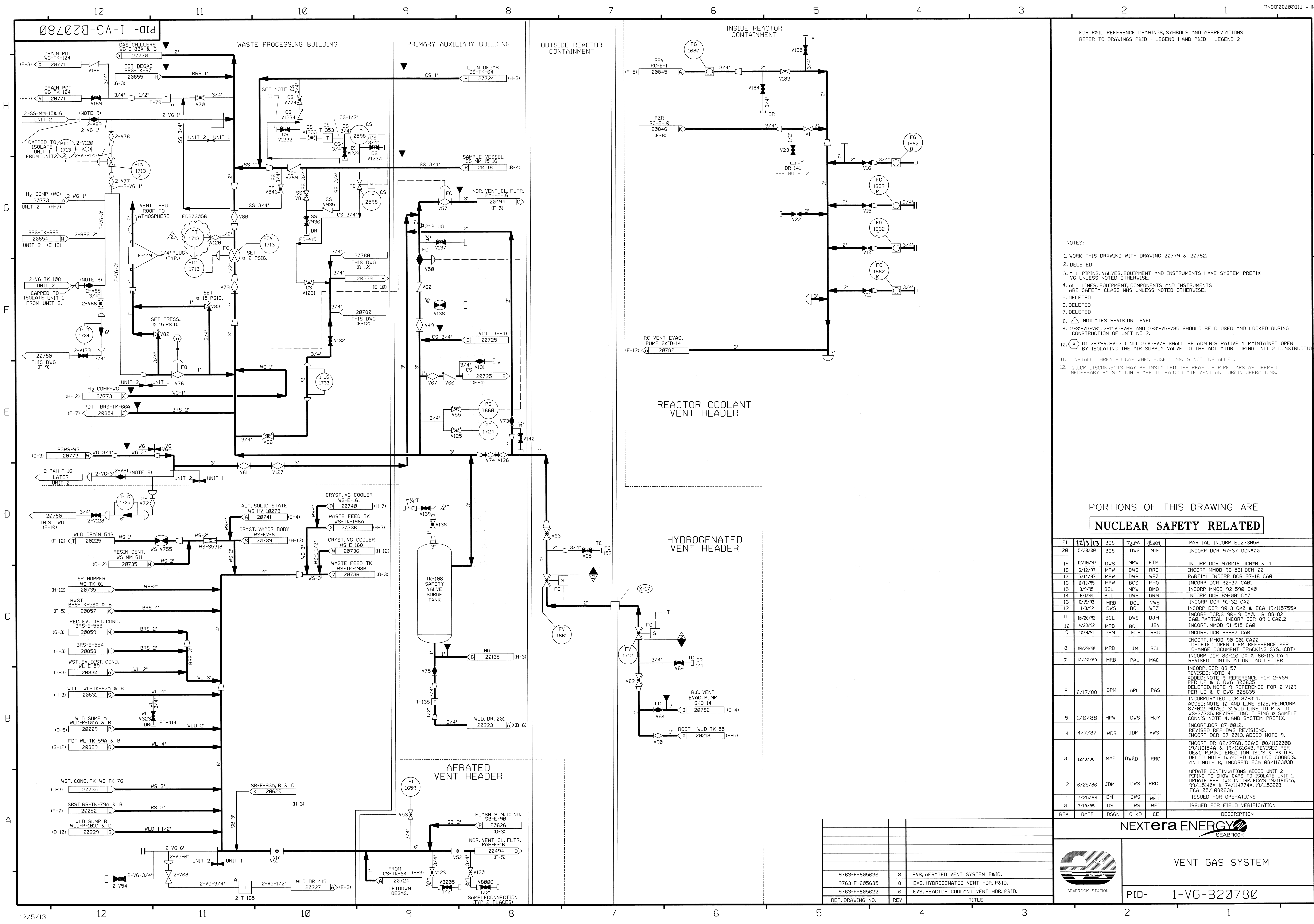


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20780 & 20782.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'VG' UNLESS NOTED OTHERWISE.
 3. Δ - INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
1	12/87	HPW					
2	2/3/87	HPW	TAK	PAL	BCL	VWS	ISSUED FOR OPERATIONS

		INCORP. DCR 86-116 CA & DCR 90-03 CA 8 & DCR 97-16 DCR 98 & 04	
North Atlantic Energy Service Corporation		VENT GAS SYSTEM OVERVIEW	
PID- 1-VG-B20779		07/01/97	



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

NOTES:

- WORK THIS DRAWING WITH DRAWING 20779 & 20782.
- DELETED
- ALL PIPING, VALVES, EQUIPMENT AND INSTRUMENTS HAVE SYSTEM PREFIX VG UNLESS NOTED OTHERWISE.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
- DELETED
- DELETED
- DELETED
- INDICATES REVISION LEVEL
- 2-3"-VG-V61, 2-1"-VG-V69 AND 2-3"-VG-V85 SHOULD BE CLOSED AND LOCKED DURING CONSTRUCTION OF UNIT NO. 2.
- TO 2-3"-VG-V57 UNIT 2/VG-V76 SHALL BE ADMINISTRATIVELY MAINTAINED OPEN BY ISOLATING THE AIR SUPPLY VALVE TO THE ACTUATOR DURING UNIT 2 CONSTRUCTION.
- INSTALL THREADED CAP WHEN HOSE CONN. IS NOT INSTALLED.
- QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

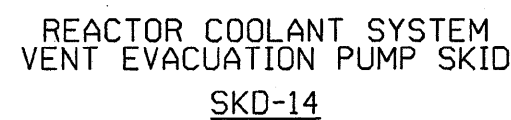
REV	DATE	DSGN	CHKD	CE	DESCRIPTION
1	2/25/86	DM	DWS	WFD	ISSUED FOR OPERATIONS
2	6/25/86	JDM	DWS	RRR	UPDATE CONTINUATIONS ADDED UNIT 2 PIPING TO SHOW CAPS TO ISOLATE UNIT 1. UPDATE REF DWG INCORP. ECA'S 19/1161544, 19/1161540 & 74/1147744, 19/1153228 ECA 05/1080834
3	12/3/86	MAP	DWRD	RRR	INCORP. DR 82/2768, ECA'S 08/1160008 19/1161544 & 19/1161548, REVISED PER USAC PIPING ERECTION ISO'S & P&ID'S. DELTD NOTE 5, ADDED DWG LOC COORDS, AND NOTE 8, INCORP'D ECA 08/1183030
4	4/7/87	WDS	JDM	VWS	INCORP. DCR 87-0012, REVISED REF DWG REVISIONS, INCORP. DCR 87-0013, ADDED NOTE 9.
5	1/6/88	MPW	DWS	MJY	INCORP. DR 82/2768, ECA'S 08/1160008 19/1161544 & 19/1161548, REVISED PER USAC PIPING ERECTION ISO'S & P&ID'S. DELTD NOTE 5, ADDED DWG LOC COORDS, AND NOTE 8, INCORP'D ECA 08/1183030
6	6/17/88	GPM	APL	PAS	INCORP. DCR 87-314, ADDED NOTE 9 REFERENCE FOR 2-V69 PER UE & C DWG 805635 DELETED NOTE 9 REFERENCE FOR 2-V129 PER UE & C DWG 805635
7	12/28/89	MRB	PAL	MAC	INCORP. DCR 86-116 CA & 86-113 CA 1 REVISED CONTINUATION TAG LETTER
8	10/29/90	MRB	JM	BCL	INCORP. MMOD 90-601 CA00 DELETED OPEN ITEM REFERENCE PER CHANGE DOCUMENT TRACKING SYS. (CDT)
9	10/9/91	GPM	FCB	RSG	INCORP. DCR 89-67 CA0
10	4/23/92	MRB	BCL	JEV	INCORP. MMOD 91-515 CA0
11	10/26/92	BCL	DWS	DJM	INCORP. DCR'S 90-19 CA0, 1 & 88-82 CA0, PARTIAL INCORP. DCR 89-1 CA0, 2
12	11/3/92	DWS	BCL	WFZ	INCORP. DCR 90-3 CA0 & ECA 19/115755A
13	6/19/93	MRB	BCL	VWS	INCORP. DCR 91-32 CA0
14	6/1/94	BCL	DWS	GRM	INCORP. DCR 89-001 CA0
15	3/9/95	BCL	MPW	DMQ	INCORP. MMOD 92-590 CA0
16	11/12/95	MPW	DWS	WFZ	INCORP. DCR 92-37 CA0
17	5/14/97	MPW	DWS	WFZ	PARTIAL INCORP. DCR 97-16 CA0
18	6/12/97	MPW	DWS	RRC	INCORP. MMOD 96-531 DCR 00
19	12/18/97	DWS	MPW	ETM	INCORP. DCR 970016 DCR#0 & 4
20	5/30/00	BCS	DWS	MIE	INCORP. DCR 97-37 DCR#00
21	12/13/13	BCS	JDM	PAS	PARTIAL INCORP. EC273056

NEXTERA ENERGY
SEABROOK

VENT GAS SYSTEM

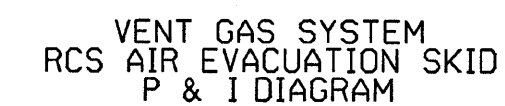
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PID- 1-VG-B20782



CR 08-06985

FPL ENERGY Seabrook Station



9763-F-885622	6	EVS. REACTOR COOLANT VENT HOR. P & ID		
REF. DRAWING NO.	REV	TITLE		