

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20829 THRU 20831.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WL, UNLESS NOTED OTHERWISE.
3. Δ - INDICATES DWS REVISION LEVEL.

3	12/94	BCL	—	DES	WVS	INCORP DCR 91-32 CA-8
2	5/4/90	NRB	FCB	APL	DWS	ES
1	2/2/87	VDS	TAK	WRD	BCL	VWS
0	1/28/86	JDM	GJS	WES	MJY	WFD
REV	DATE	DSGN	DRWN	CHKD	CDE	SES
						DESCRIPTION
						ISSUED FOR OPERATIONS
						ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS
						INCORP DCR 86-96 CA 8/9
						SOLID WASTE SYS. SPT. RESIN CONC. P & ID
						WL SYSTEM-DEMIN. & TESTING - P & ID
						WL SYSTEM-EVAPORATOR EV-4 - P & ID
						WL SYSTEM-STORAGE & FILTRATION - P & ID
						TITLE
						REV
						REF. DRAWING NO.

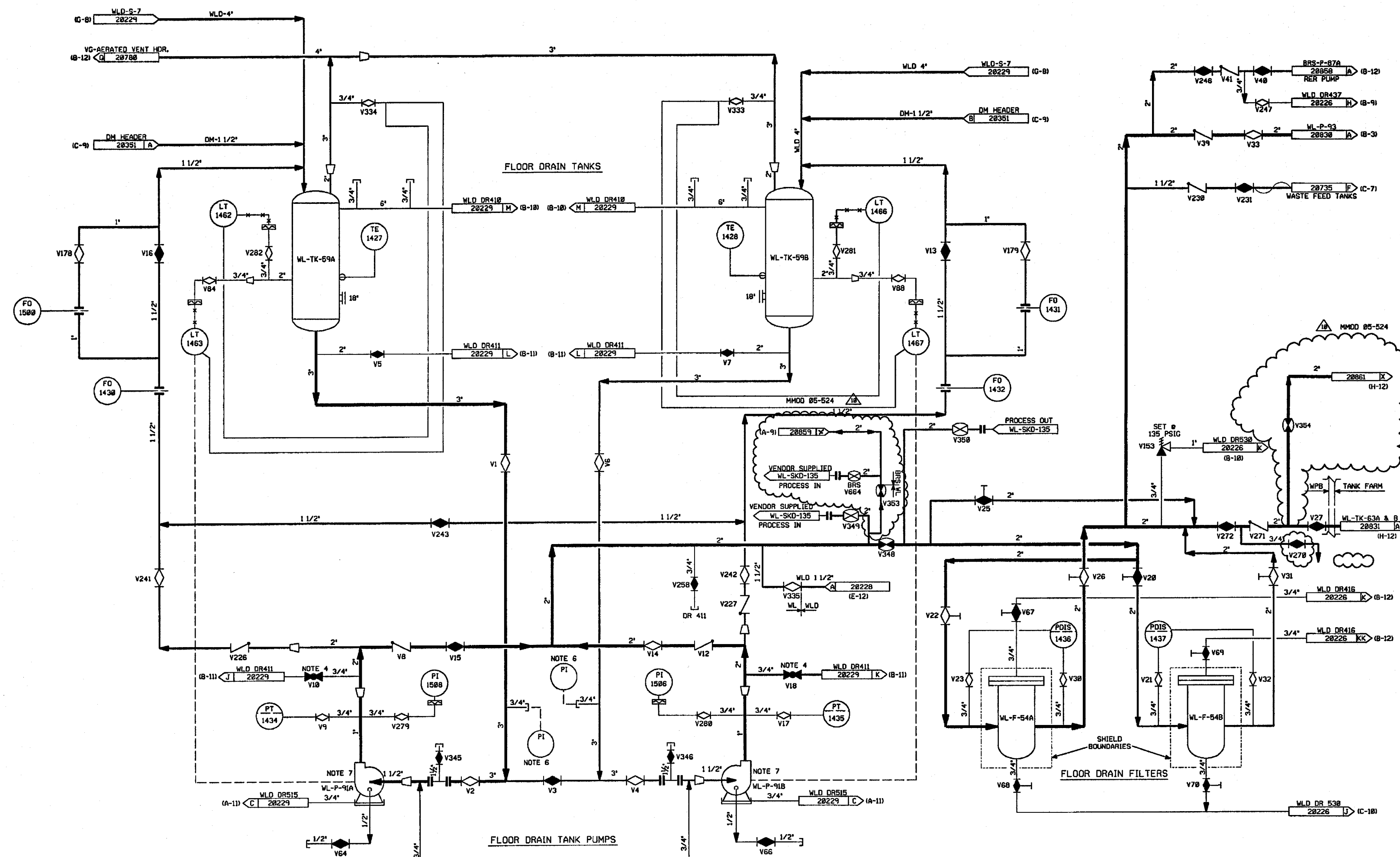
North Atlantic Energy Service Corporation

LIQUID WASTE SYSTEM OVERVIEW

PID- 1-WL-B20828

PID-1-WL-B20829

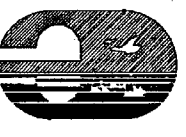
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. WORK THIS DWG WITH DWGS 20820, 20830, & 20831.
 2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX WL UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
 4. FLUSH, VENT, AND/OR SAMPLE CONNECTION PIPE TO LOCAL DRAIN FUNNEL.
 5. TELL TALE DRAIN PIPED TO LOCAL DRAIN FUNNEL.
 6. START UP ENGINEERING TO PROVIDE PIPING, VALVES & PITS ALSO STRAINER BLOW OFF PIPING & VALVES FOR INITIAL FLUSHING OPERATION. STRAINER SCREEN TO BE REMOVED AFTER START UP.
 7. SEE P&ID DM-20853 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.

10	6/18/04	BCS	JM	ZCP	INCORP MMOD 05-524 DCH-08, 02
9	6/17/93	MRB	BCL	VWS	INCORP DCR 91-32 CA0
8	4/21/92	MRB	BCL	JEV	INCORP MMOD 91-515 CA0
7	12/13/90	MRB	JM	RSG	INCORP MMOD 90-610 CA01
6	10/31/90	MRB	JM	RSG	PARTIAL INCORP OF MMOD 90-610 CA 00 REVISED NOTE 7 FOR CLARITY
5	5/4/90	MRB	APL	ES	INCORP DCR 86-96 CA 09 AND DCR 86-93 CA
4	11/17/87	MPW	BCL	WFD	INCORP DCR 86-662 CA01, REVISED NOTE 3
3	6/28/87	JDM	PAL	RRC	INCORP DCR 86-673
2	11/28/86	CSB	WFO	RRC	ADDED P&ID REF DWG NOTE, DWG CONT CORRECTS SEALS TO P-1000 & 1500 PER ASSULT COND. FLANGES & FITTINGS PER ASSULT COND. REVISED L.T. TAG NO. TO CORRECT DRAFTING ERRORS, REV'D 2 LINE TO WL-F-54A & B PER ASSULT.
1	6/13/86	DWS	DWS	RRC	ADDED WS, WLD & VG CONTINUATIONS
0	1/28/86	JDM	WES	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

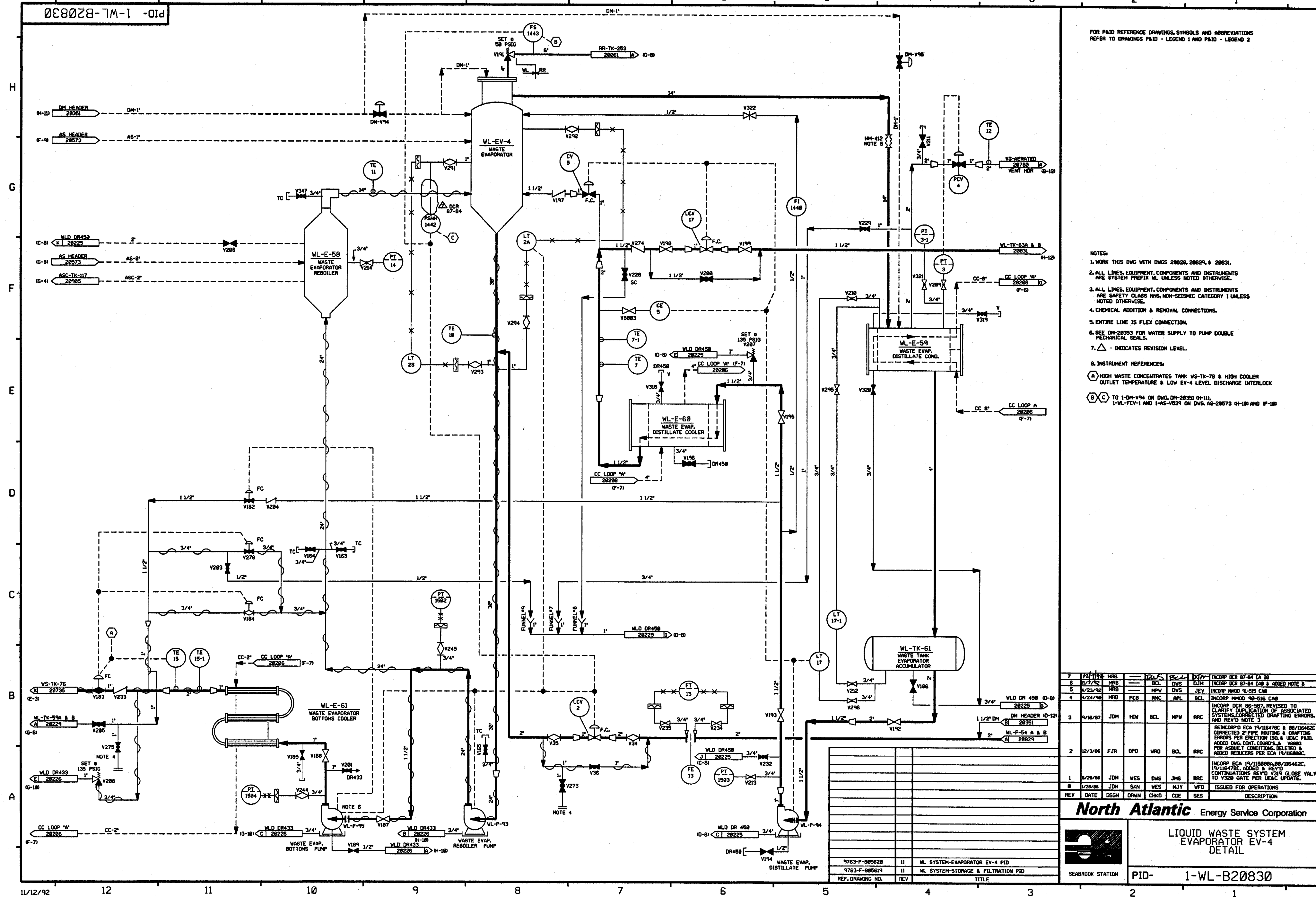
FPL ENERGY Seabrook Station



LIQUID WASTE SYSTEM
STORAGE & FILTRATION
DETAIL

PID- 1-WL-B20829

9763-F-885631	10	SOLID WASTE SYS. SPT. RESIN CONC. P & ID
9763-F-885619	11	WL SYSTEM - STORAGE & FILTRATION - 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 DWG WITH DWGS 28628, 28629, & 28631.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SYSTEM PREFIX ML UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INS. NON-SEISMIC CATEGORY I UNLESS NOTED OTHERWISE.
4. CHEMICAL ADDITION & REMOVAL CONNECTIONS.
5. ENTIRE LINE IS FLEX CONNECTION.
6. SEE DD-28953 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
7. Δ - INDICATES REVISION LEVEL.

8. INSTRUMENT REFERENCES:

(A) HIGH WASTE CONCENTRATES TANK WS-TK-76 & HIGH COOLER
OUTLET TEMPERATURE & LOW EV-4 LEVEL DISCHARGE INTERLOCK

(B) (C) TO I-HD-V94 ON DWG. DD-28363 04-111,
I-ML-FCV-1 AND I-AS-V939 ON DWG. AS-28573 04-180 AND 04-180

7	1/17/78	MRB	BCL	DMS	DJM	INCPOR DCR 87-84 CA 28
8	1/17/78	MRB	BCL	DMS	DJM	INCPOR DCR 87-84 CAG & ADDED NOTE 8
9	4/23/78	MRB	MFV	APL	BCL	INCPOR HMOO 88-35 CAG
10	8/24/78	MRB	FCB	RMC	APL	INCPOR HMOO 88-316 CAG
11	9/17/78	JDM	HW	BCL	MFV	INCPOR DCR 88-587, REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS CONTAINED DRAFTING ERRORS, AND REV'D NOTE 5
12	3/12/79	JDM	HW	BCL	MFV	REINCPOR'D ECA 19/18478C & 88/16452C CORRECTED 2 PIPS ROUTING & 88/16452C ROUTING PER ELECTION ISA & EAC PAID. ADDED DNG, DCM, COORDS., & V8803 PER ASBUILT CONDITIONS. DELETED & ADDED REDUCERS PER ECA 19/18478C.
13	12/3/96	FJR	OPD	WRD	BCL	INCPOR ECA 19/18888A.88/16452C, 19/18478C, ADDED & REV'D CONTINUATIONS REV'D V87 FLDG VALV. TO V320 GATE PER APP. CLOSE.
14	6/26/86	JDM	WES	DMS	JWS	ISSUED FOR OPERATIONS
15	1/28/86	JDM	SKN	WES	MJY	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	COD	DESCRIPTION

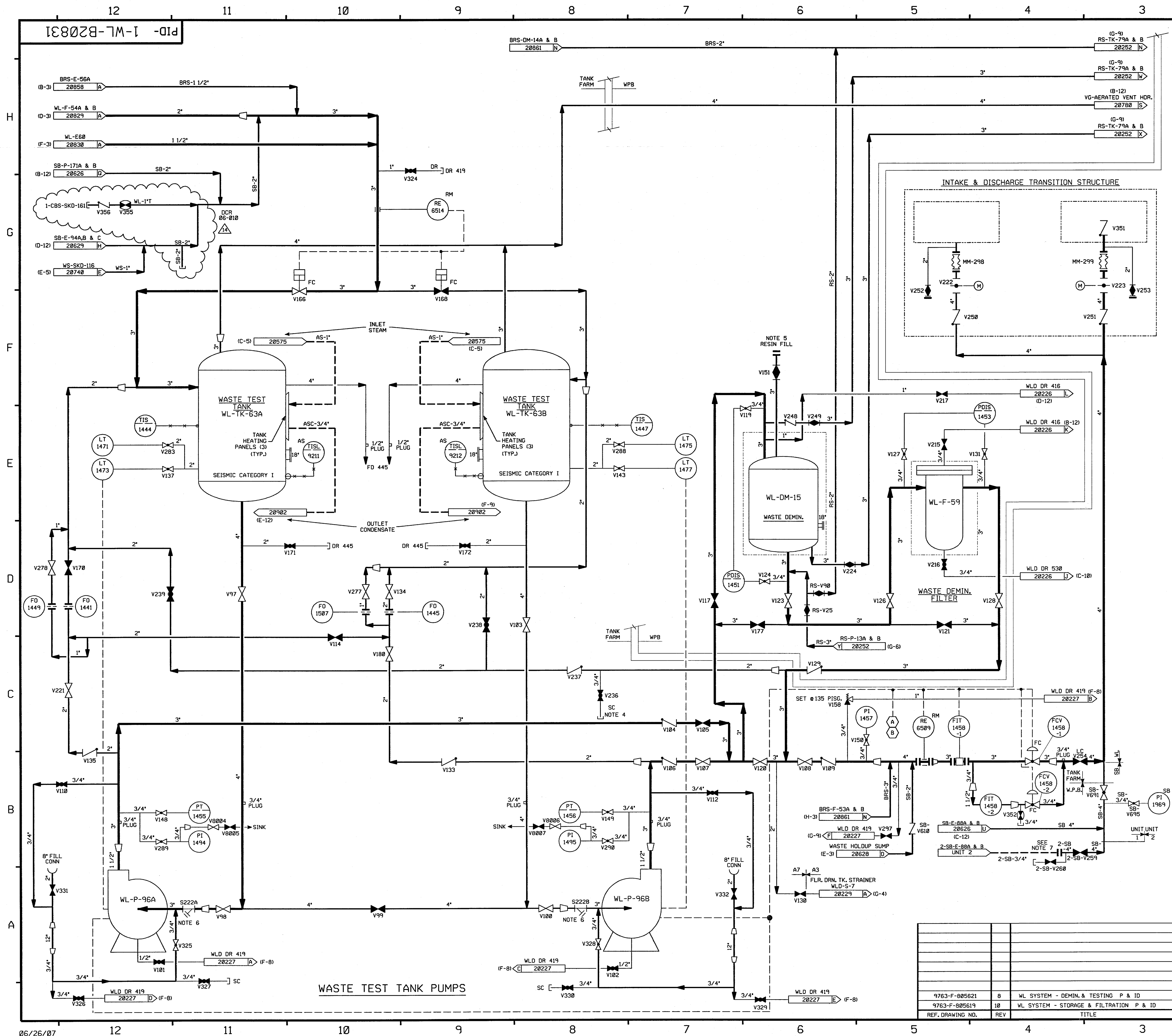
KEY	DATE	DOOR	DOWN	CHRG	CODE	SEC	DESCRIPTION
North Atlantic Energy Service Corporation							



LIQUID WASTE SYSTEM
EVAPORATOR EV-4
DETAIL

SEABROOK STATION

PID- 1-WL-B20830



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

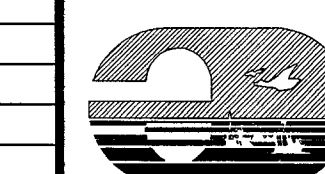
NOTES:

- WORK THIS DRAWING WITH DRAWINGS 20828, 20829 & 20830.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WL, UNLESS NOTED OTHERWISE.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
- FLUSH AND SAMPLE CONNECTION; USE FLEXIBLE HOSE TO A LOCAL DRAIN FUNNEL TO FLUSH THE LINE, USE POLYETHYLENE COLLECTION BOTTLES TO COLLECT SAMPLES.
- RESIN FILL TANK (TYP.) AS SHOWN ON DWG. BRS-20861.
- START-UP ENGINEERING TO PROVIDE PIPING, VALVE AND P & ID'S; ALSO STRAINER BLOWOFF PIPING & VALVES FOR INITIAL FLUSHING OPERATION. STRAINER SCREEN TO BE REMOVED AFTER START-UP.
- LINE BLIND FLANGED TO ISOLATE UNIT 1 FROM UNIT 2
- INDICATES REVISION LEVEL.
- INSTRUMENT REFERENCES:
A FROM SB-P-292 DRAWING SB-20628
B FROM BRS-P-90A&B DRAWING BRS-20861

14	7-13-03	BCS	JW	FCB	INCCORP DCR 06-010 DCN-00
13	5-12-04	JM	BCS	RRB	INCCORP CR 03-01971 REV 00
12	1/13/99	BCS	MPW	VWS	INCCORP MM00 98-686 DCN-00
11	4-29-98	DRL	BCS	JCM	INCCORP MM00 97-632 DCN-00
10	3-7-97	BCS	DWS	RWC	INCCORP DCR 96-22 DCN-0
9	6/17/93	MRB	BCL	VWS	INCCORP DCR 91-32 CA0
8	4/21/92	MRB	BCL	JEV	INCCORP DCR 90-39 CA3 & MM00 91-515 CA0
7	10/29/90	MRB	JM	BCL	INCCORP MM00 90-601 CA00
6	3/28/89	MRB	PAL	MJY	INCCORP DCR 86-185 CA 3
5	11/1/88	MRB	GPM	MJY	INCCORP DCR 88-51 CA 01 & ECA 99/1128568 REVISED NOTE 3, PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES ADDED: CONTINUATION TAG & LOCATION COORDINATE OFF V297 DELETED: INCOMPLETE ITEM, DUPLICATED VALVE SB-V259 ON DWG SB-20626
4	12/22/86	JDM	WRD	RRC	ADDED NOTE 8, SAMPLE SINK SUPPLY LINES, CONT. REF. DWGS. P&ID REF. DWG. NOTE, & VLVS. V0804, 5, 6, 7.
3	10/28/86	JDM	WRD	RRC	INCCORP ECA 19/111538C
2	9/2/86	JDM	MAP	RRC	INCCORP ECA 99/1170628
1	6/19/86	JDM	DWS	RRC	ADDED INCOMP. ITEM, ADDED & REV'D CONT. INCCORP ECA 19/116129A & ECA 99/806094A INCCORP LATEST REF DWG REVS
0	1/28/86	JDM	WES	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

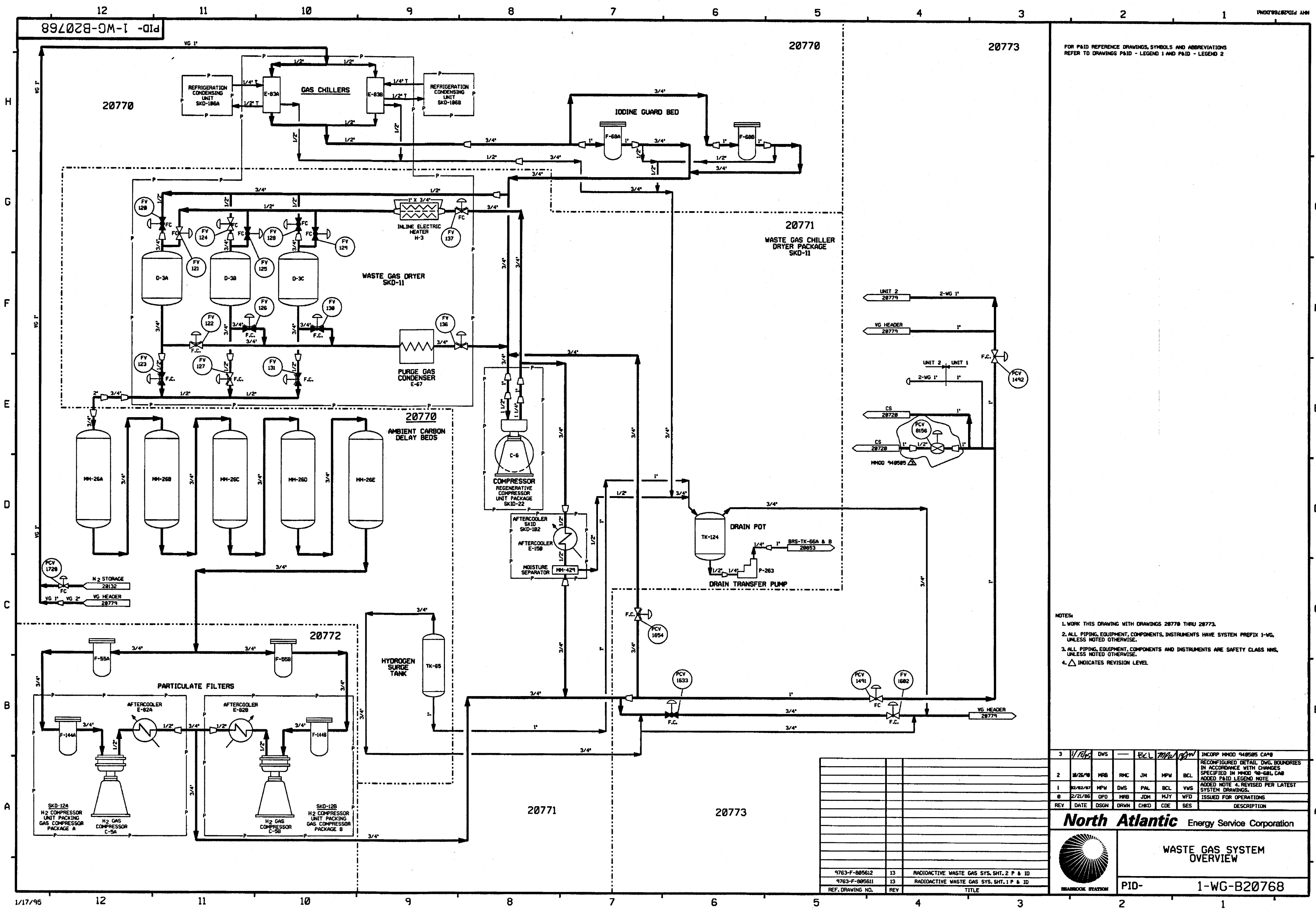
Seabrook Station



LIQUID WASTE SYSTEM
DEMINERALIZATION & TESTING
DETAIL

PID- 1-WL-B20831

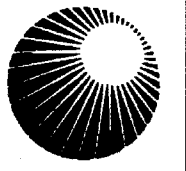
REF. DRAWING NO.	REV	TITLE
9763-F-805621	8	WL SYSTEM - DEMIN. & TESTING P & ID
9763-F-805619	10	WL SYSTEM - STORAGE & FILTRATION P & ID



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 20770 THRU 20773.
 - 2. ALL PIPING, EQUIPMENT, COMPONENTS, INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 - 3. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 - 4. Δ INDICATES REVISION LEVEL.

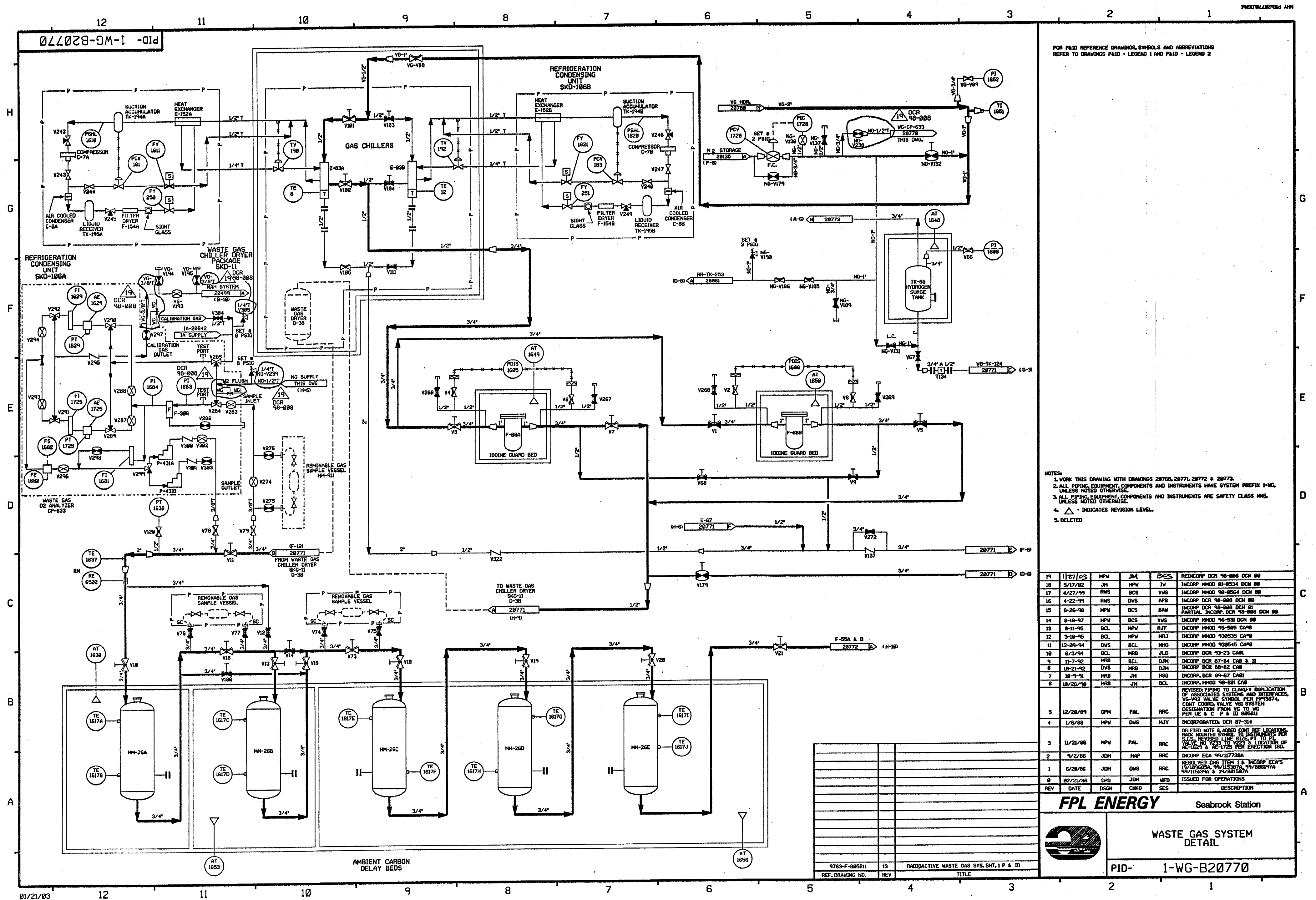
3	11/18/95	DWS	—	ECL	MPW	BCL	INCORP MH00 940505 CA#0
2	10/26/90	MRB	RMC	JM	MPW	BCL	RECONFIGURED DETAIL DWG. BOUNDARIES IN ACCORDANCE WITH CHANGES SPECIFIED IN MH00 94-0801, CA#0
1	02/02/87	MPW	DWS	PAL	BCL	YMS	ADDED P&ID LEGEND NOTE
0	2/21/86	OPD	MRB	JDM	MJY	WFD	ADDED NOTE 4, REVISED PER LATEST SYSTEM DRAWINGS.
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

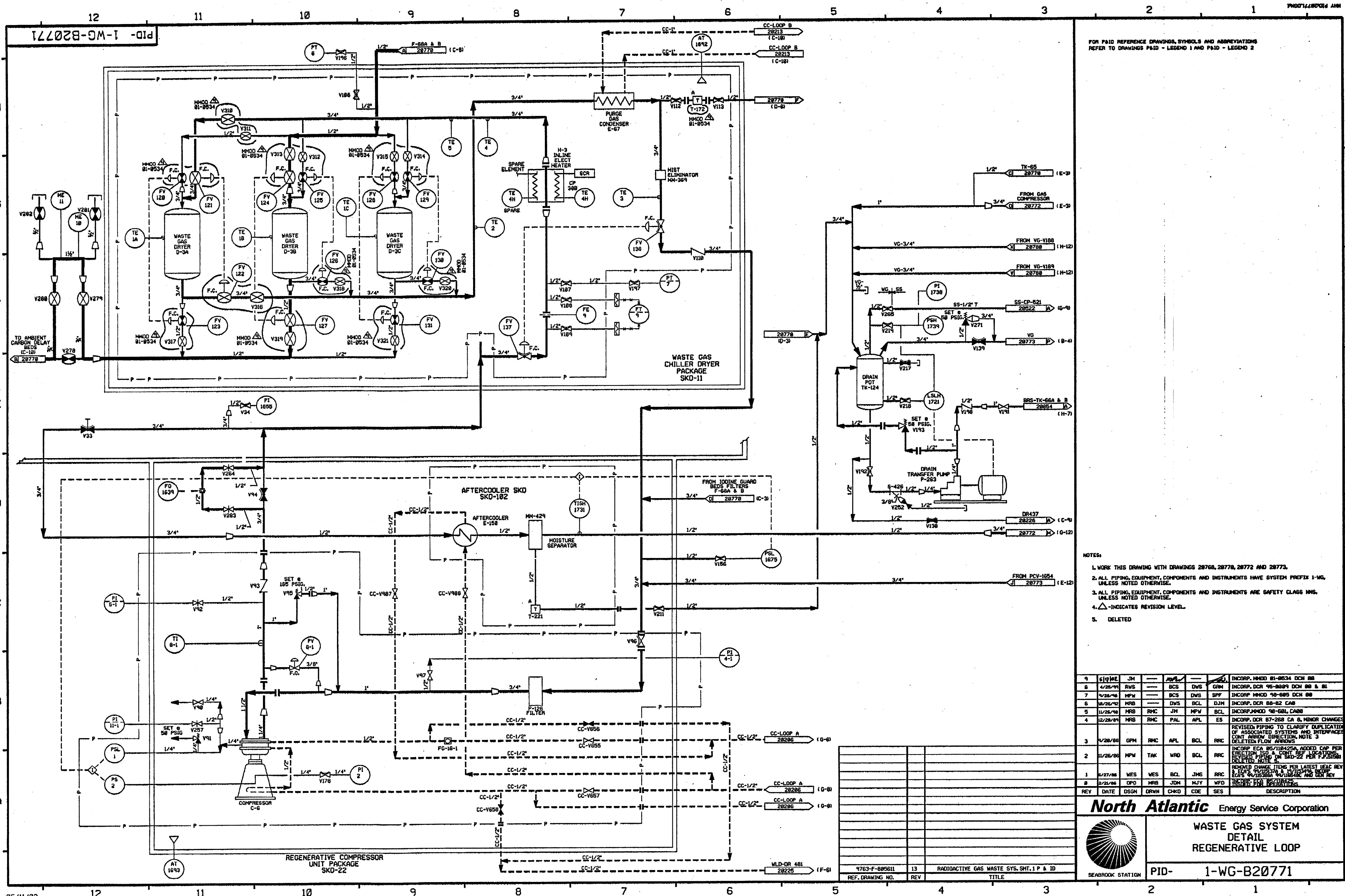
**North Atlantic** Energy Service Corporation

WASTE GAS SYSTEM OVERVIEW

PID-1-WG-B20768

9763-F-805612	13	RADIOACTIVE WASTE GAS SYS. SHT. 2 P & ID
9763-F-805611	13	RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID
REF. DRAWING NO.	REV	TITLE






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

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28768, 28776, 28772 AND 28773.
 2. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 3. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS, UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. DELETED

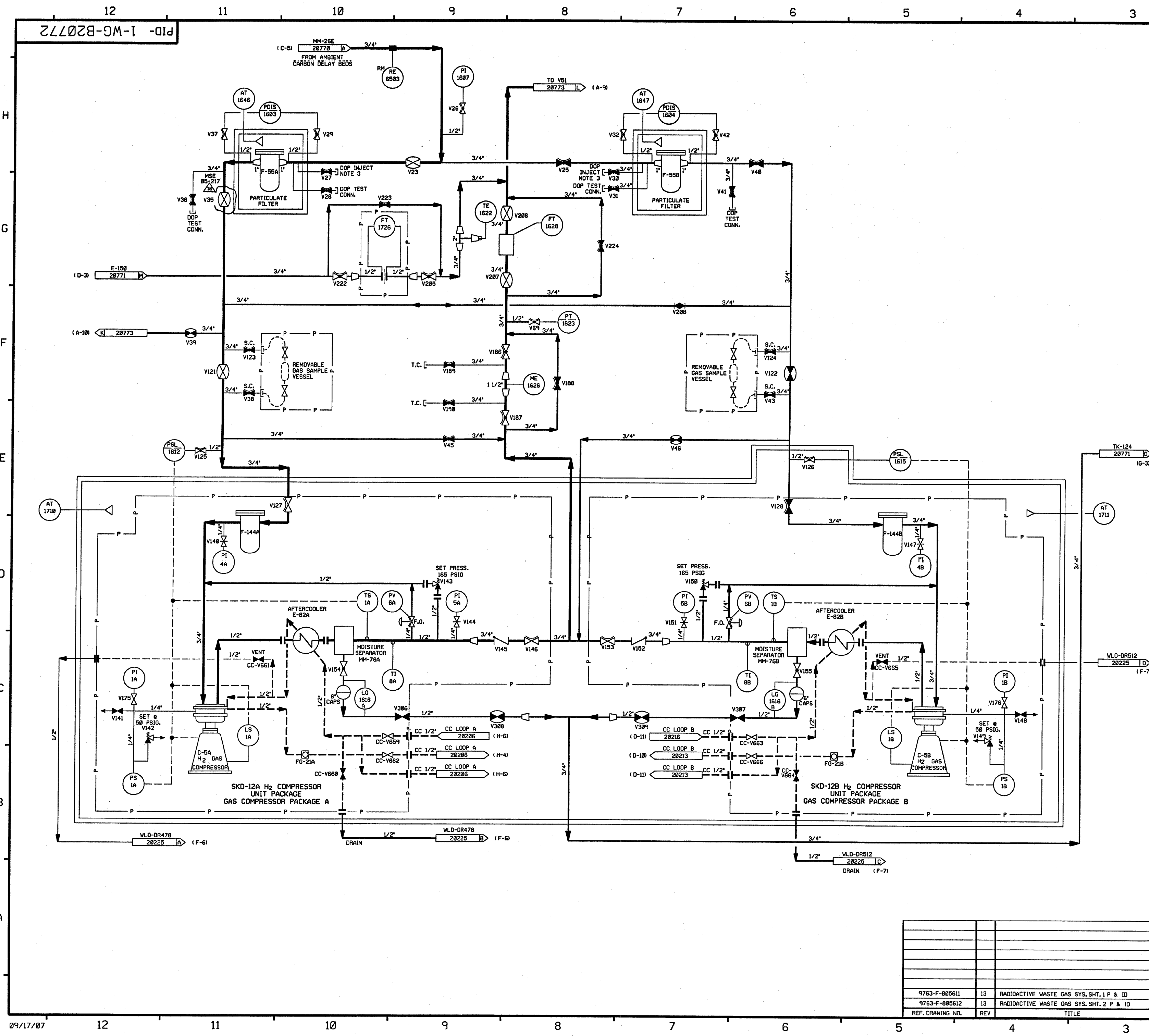
9	6/10/82	JM	—	—	—	—	INCORP. MMD 81-9534 DCM 88
8	4/28/81	RVS	—	BCS	DWS	GRM	INCORP. DCR 95-8889 DCM 88 & 81
7	4/28/81	MPM	—	BCS	DWS	SPF	INCORP. MMD 98-8885 DCM 88
6	10/26/80	MRB	—	DWS	BCL	DJM	INCORP. DCR 88-82 CAB
5	11/25/80	MRB	—	JH	MPW	BCL	INCORP. MMD 98-681 CAB
4	12/28/81	MRB	RMC	PAL	APL	ES	INCORP. DCR 87-288 CA 6, MINOR CHANGES
3	7/28/88	GPM	RMC	APL	BCL	RRC	REVISED PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES. CONT. ARROW DIRECTION. NOTE 3 DELETED. FLOW ARROWS.
2	11/28/88	MPW	TAK	MRD	BCL	RRC	INCORP. ECA 85/118425A. ADDED CAP PER ERECTION 150 & CONT. REF. LOCATIONS. REVISED PIPING ON SKD-22 PER F.P. 28768. DELETED NOTE 4.
1	4/27/88	WES	WES	BCL	JMS	RRC	REMOVED CHANGE ITEMS PER LATEST HEAC REV 1. ECA 85/118425A. ADDED CAP PER ERECTION 150 & CONT. REF. LOCATIONS. REVISED PIPING ON SKD-22 PER F.P. 28768. DELETED NOTE 4.
0	2/21/88	OPD	MRB	JDM	MJY	WFO	REMOVED CHANGE ITEMS PER LATEST HEAC REV 1. ECA 85/118425A. ADDED CAP PER ERECTION 150 & CONT. REF. LOCATIONS. REVISED PIPING ON SKD-22 PER F.P. 28768. DELETED NOTE 4.
REV	DATE	DSGN	DRWN	CHKD	CODE	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

WASTE GAS SYSTEM
DETAIL
REGENERATIVE LOOP

PID- 1-WG-B20771

9763-F-805611	13	RADIOACTIVE GAS WASTE SYS. SHT. 1 P & ID
REF. DRAWING NO.	REV	TITLE

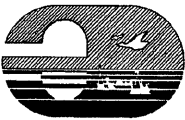


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20768, 20770, 20771 & 20773.
 2. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 3. DOP FILTER EFFICIENCY TEST PORTS.
 4. ALL PIPING, EQUIPMENT, COMPONENT AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. Δ INDICATES REVISION LEVEL.
 6. DELETED

16	1-17-07	JM	BCS	RJR	INCORP MSE 05-217 REV 00, 01.
15	10/19/06	BCS	JM	RRB	PARTIAL INCORP MSE 05-217 REV 00
14	10/20/03	BCS	ALP	RRB	PARTIAL INCORP MSE 01-206 REV. 00
13	10/16/03	MPW	BCS	RRB	INCORP MSE 03-225 REV. 01
12	5/22/03	BCS	JM	JC	PARTIAL INCORP DCR 02-001 DCN-00
11	10/01/01	BCS	MPW	DJM	INCORP MSE 01-0096 REV. 0
10	11/14/00	MPW	BCS	SPF	INCORP MMDD 99-0605 DCN 00
9	4/27/99	RWS	BCS	HWM	INCORP MMDD 98-0564 DCN 00
8	4/22/99	RWS	BCS	SGF	INCORP DCR 98-0046 DCN 00
7	6/02/98	DRL	BCS	VNS	INCORP MMDD 97-521 DCN 00
6	12/9/94	DWS	BCL	MHO	INCORP MMDD 930545 CA#0
5	10/26/90	MRB	JM	BCL	INCORP MMDD 98-601 CA#0
4	09/20/88	GPM	APL	RRC	REVISED NOTE 3, VALVE SYMBOLS FOR V0-V88 & V120 PER PP 93874 & 91411, EQUIPMENT CONT REFERENCE FROM E-150 TO C-5. ADDED FC SYMBOL FOR VALVE FV 130 PER MHY-506893.
3	11/20/86	MPW	WRD	RRC	ADDED CONTINUATION REF DWG AND P&ID LEGEND REF NOTE, ADDED RACK MOUNTED SYMBOL PER S.I.S., REVISED FT TO PT & FCV TO PCV PER S.I.S., DELETED NOTE 5.
2	9/2/86	JDM	MAP	RRC	INCORP ECA 99/117730A
1	6/20/86	JDM	DWS	RRC	APPROVED CHANGE ITEM NO. 1 PER LATEST REV TO REF. DWG.
0	2/21/86	OPD	JDM	WFD	INCORP ECA 85/082103A.19/115491A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

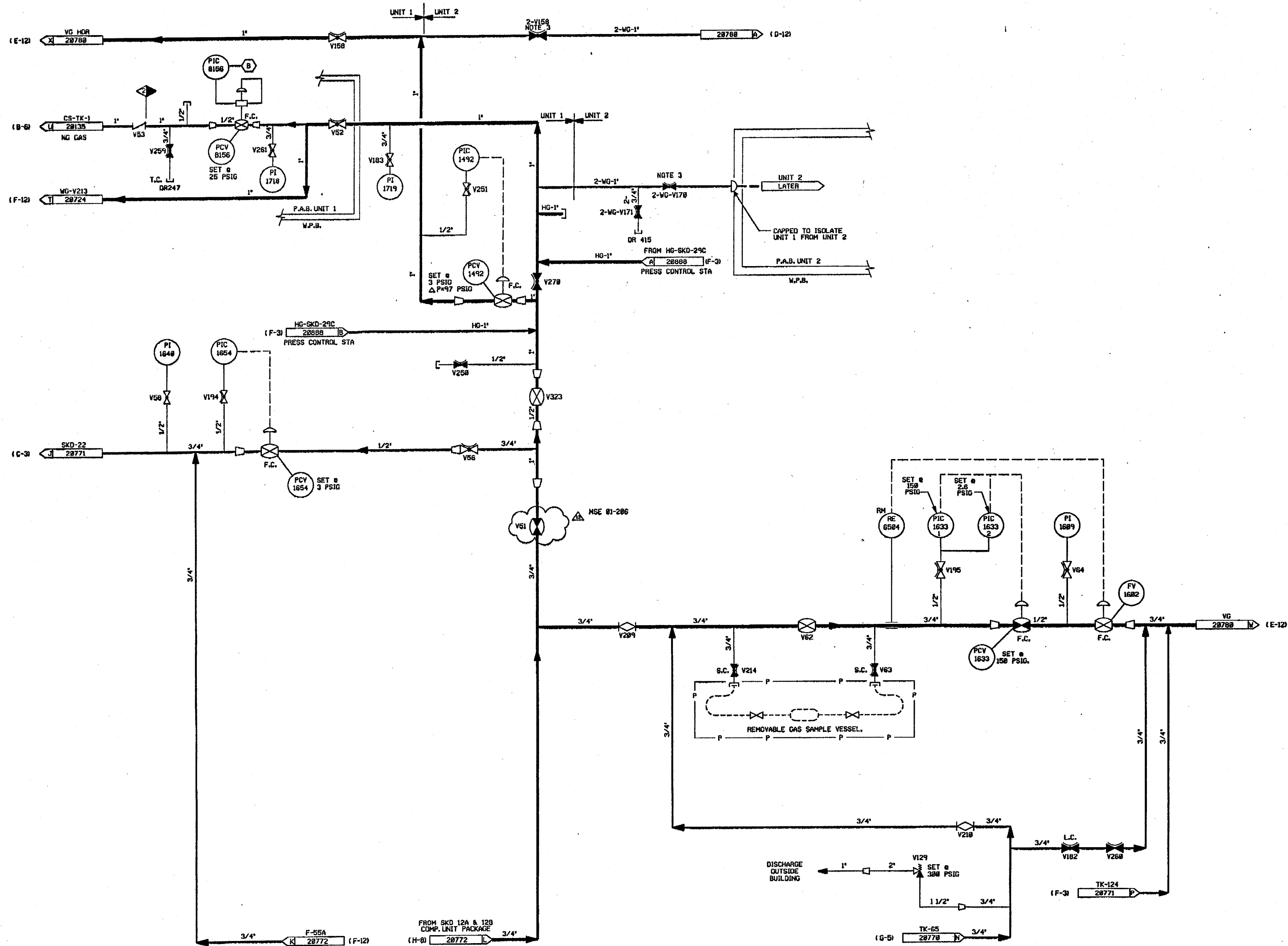
FPL ENERGY
Seabrook Station

**WASTE GAS SYSTEM
DETAIL**

PID- 1-WG-B20772

9763-F-805611	13	RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID
9763-F-805612	13	RADIOACTIVE WASTE GAS SYS. SHT. 2 P & ID
REF. DRAWING NO.	REV	TITLE

PID-1-WG-B20773



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

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20768, 20770, 20771, & 20772.
 2. ALL PIPING, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX "1-WG" UNLESS NOTED OTHERWISE.
 3. THIS VALVE TO BE LOCKED CLOSED DURING UNIT 2 CONSTRUCTION.
 4. ALL PIPING & INSTRUMENTS ARE SAFETY CLASS UNLESS OTHERWISE NOTED.
 5. Δ INDICATES REVISION LEVEL.
 6. DELETED
 7. INSTRUMENT REFERENCES:
(B) FROM CS-PT-115 ON PAID CS-20725

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	10/15/03	BCS	mm	28	PARTIAL INCORP MSE 01-286 REV.0
12	5/5/03	BCS	JM	JC	PARTIAL INCORP DCR 02-081, DCR-08
11	5/7/02	JH	MPW	ICW	INCORP MSE 01-0096 REV.0
10	3/18/99	BCL	MPW	MRJ	INCORP M400 930535 CA#0
9	2/7/94	DWS	BCL	M40	INCORP M400 930545 CA#0
8	6/2/94	DWS	BCL	IV	INCORP M400 940505 CA#0 & 2
7	10/2/92	DWS	BCL	WF2	INCORP DCR 090001 CA#0
6	10/3/91	GPM	JH	RSG	INCORP DCR 09-57 CA#0
5	10/28/90	MRB	JH	BCL	INCORP M400 90-601 CA#0
4	12/28/89	MRB	PAL	ES	INCORPORATED DCR 07-268 CA#0 REVISED NOTE 4, V210 VALVE SYMBOL FROM NORMALLY CLOSED TO OPEN, CONT DND NO & COORD ADDED F.C. PER PP 51975 & 55680 FOR VALVE PCV-8556, LOOP & LOGIC NOT-50509 FOR VALVE PCV-143L
3	1/28/88	GPM	APL	RRC	ADDED CONTINUATION FLAG CORDS, REMOVED CAP PER ECA 19/101640, REMOVED DUPLICATED INSTR. SHOWN ON HG SYS DELETED NOTE 6, IDENTIFIED DRAIN PER RELEVANT NOTE
2	11/28/86	MRJ	WRD	RRC	REMOVED CHANGE ITEMS PER ECA 19/103330 & LATEST USAC REV. INCORP ECA 19/107012A & 19/101640
1	6/7/86	MES	DWS	RRC	ISSUED FOR OPERATIONS
0	2/2/86	DPO	JDM	WFD	

FPL ENERGY

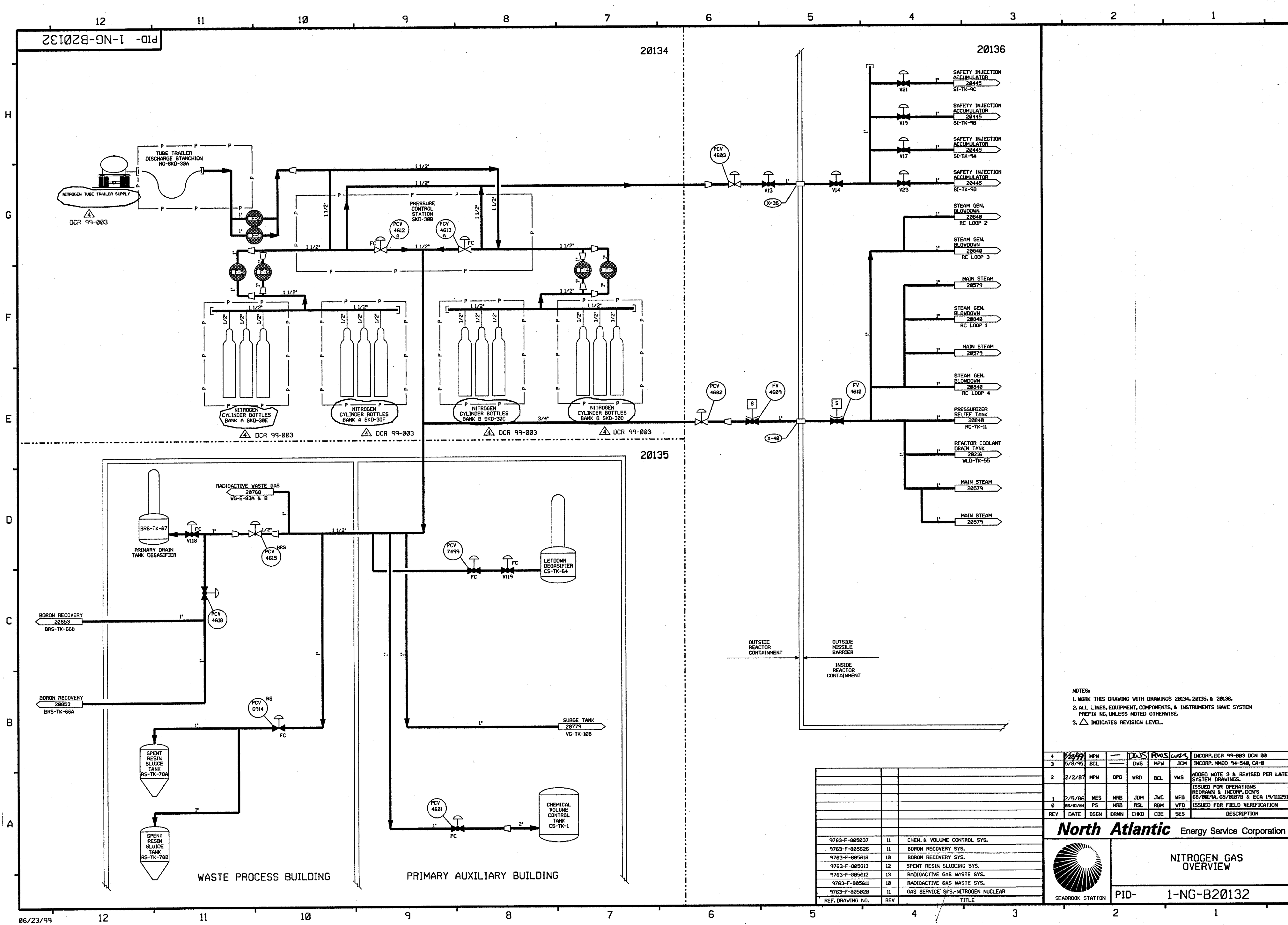
Seabrook Station



WASTE GAS SYSTEM
DETAIL

PID- 1-WG-B20773

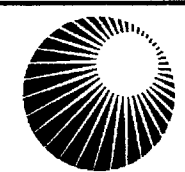
9763-F-005612 13 RADIOACTIVE GAS WASTE SYS. SHT. 2 P & 10
REF. DRAWING NO. REV. TITLE



NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20134, 20135, & 20136.
2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX NG, UNLESS NOTED OTHERWISE.
3. Δ INDICATES REVISION LEVEL.

4	1/2/99	MPW	—	DCS	RMS	WMS	INCORP. DCR 99-003 DCN 00
3	5/8/95	BCL	—	DWS	MPW	JCH	INCORP. MMOD 94-540, CA-0
2	2/2/87	MPW	OPD	WRO	BCL	VMS	ADDED NOTE 3 & REVISED PER LATEST SYSTEM DRAWINGS
1	2/5/86	WES	MRB	JCH	JWC	WFD	ISSUED FOR OPERATIONS REDRAWN & INCORP. DCN'S 68/001/9A, 65/0187B & ECA 19/111251B
0	06/01/84	PS	MRB	RSL	RBM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

North Atlantic Energy Service Corporation

SEABROOK STATION

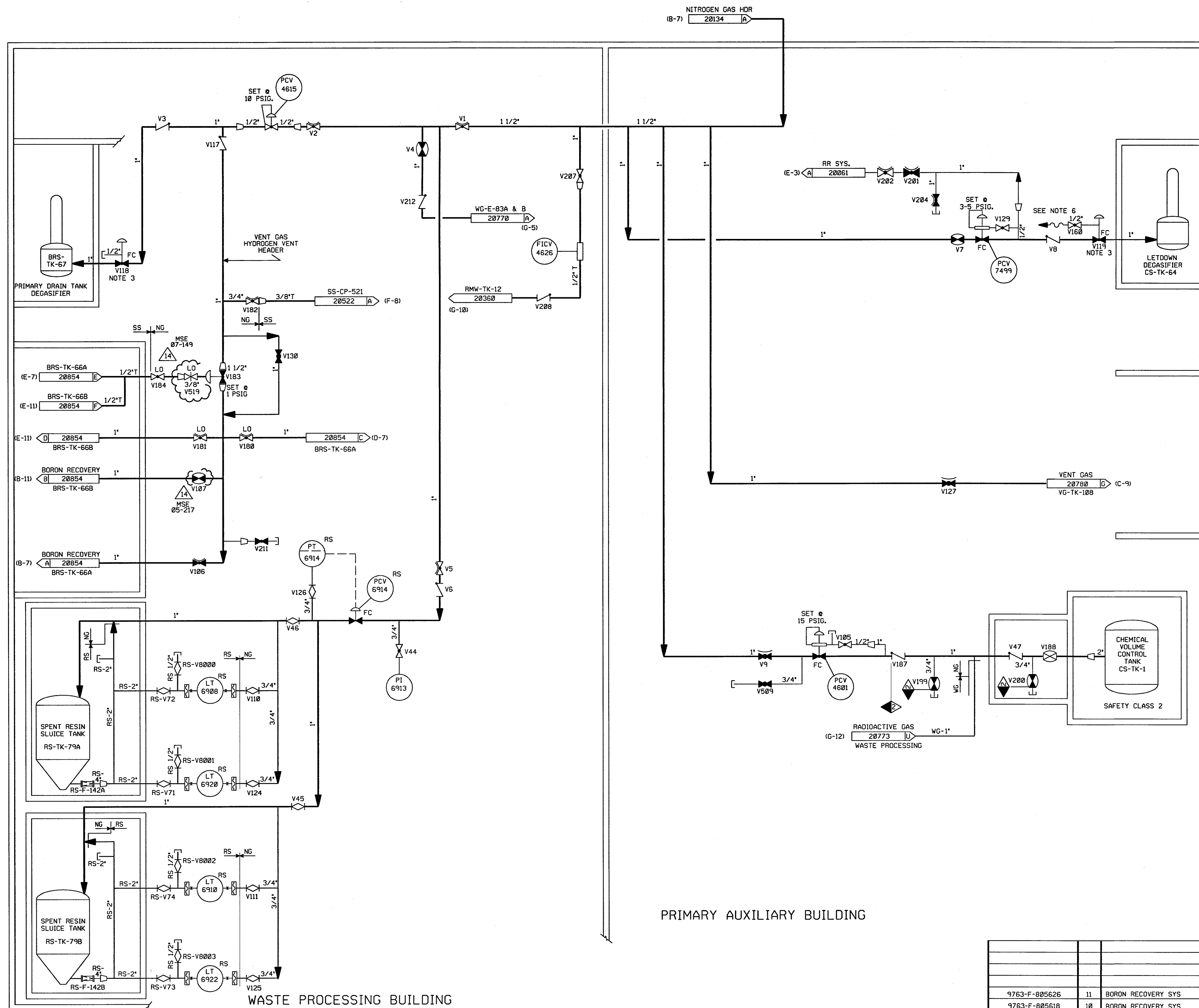
NITROGEN GAS OVERVIEW

PID- 1-NG-B20132

REF. DRAWING NO.	REV	TITLE
9763-F-005037	11	CHEM. & VOLUME CONTROL SYS.
9763-F-005026	11	BORON RECOVERY SYS.
9763-F-005018	10	BORON RECOVERY SYS.
9763-F-005013	12	SPENT RESIN SLUICING SYS.
9763-F-005012	13	RADIOACTIVE GAS WASTE SYS.
9763-F-005011	10	RADIOACTIVE GAS WASTE SYS.
9763-F-005022	11	GAS SERVICE SYS.-NITROGEN NUCLEAR

PID-1-NG-B20135

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

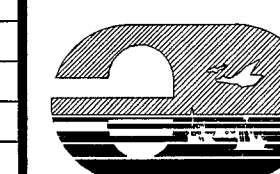


- NOTES
1. WORK THIS DRAWING WITH DRAWINGS 20132, 20134, & 20136
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX NG, UNLESS NOTED OTHERWISE.
 3. VALVE TO BE INSTALLED WITH DEGASIFIER LIQUID UNDER THE VALVE SEAT
 4. ALL LINES, EQUIPMENT, COMPONENT AND INSTRUMENTS ARE SAFETY CLASS 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	9-17-07	JM	BCS	RRB	INCORP MSE 07-149 REV 00 & MSE 05-217 REV 00, 01
13	12/9/04	BCS	JM	RRB	INCORP CR 04-09401 REV. 0
12	12/23/99	BCS	DWS	JCM	INCORP MMOD 96-531 DCN*03
11	4/20/99	DWS	BCS	JCM	INCORP MMOD 980588 DCN*00
10	6/12/97	MPW	DWS	RRC	INCORP MMOD 96-531 DCN 00, ADDED OPERATOR TO NG-V7 PER PP-97064
9	6/3/94	BCL	DWS	JLD	INCORP DCR 93-23, CA-0, 1 & DCR 88-152 CA 0
8	11/2/92	MRB	BCL	DJM	INCORP DCR 88-179 CA0
7	4/22/92	MRB	BCL	JEV	INCORP MMOD 91-515 CA0
6	8/21/91	MRB	FCB	PEB	INCORP DCR 90-7 CA03
5	5/26/89	MRB	PAL	IW	INCORPORATED DCR 87-110 CA 11 REVISED NOTE 4
4	8/6/87	OPM	MPW	RRC	ADDED SYSTEM BREAKS, ADDED NOTE 6, CONT COORD AND DELETED REF. DWG.
3	10/17/87	MPW	MAP	RRC	ADDED VALVES RS-V8000-8003, NOTE 5, CAPPED CONN PER ERECTION ISO AND CONT REF. DWG, DELETED REF. DWG'S.
2	6/23/86	WES	VNK	RRC	UPDATE PER LATEST P&ID
1	2/5/86	WES	JDM	WFD	ISSUED FOR OPERATIONS, GENERAL REVISIONS & INCORP ECA 19/2734 & DCR 88/0019A
0	06/01/84	PJC	RSL	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

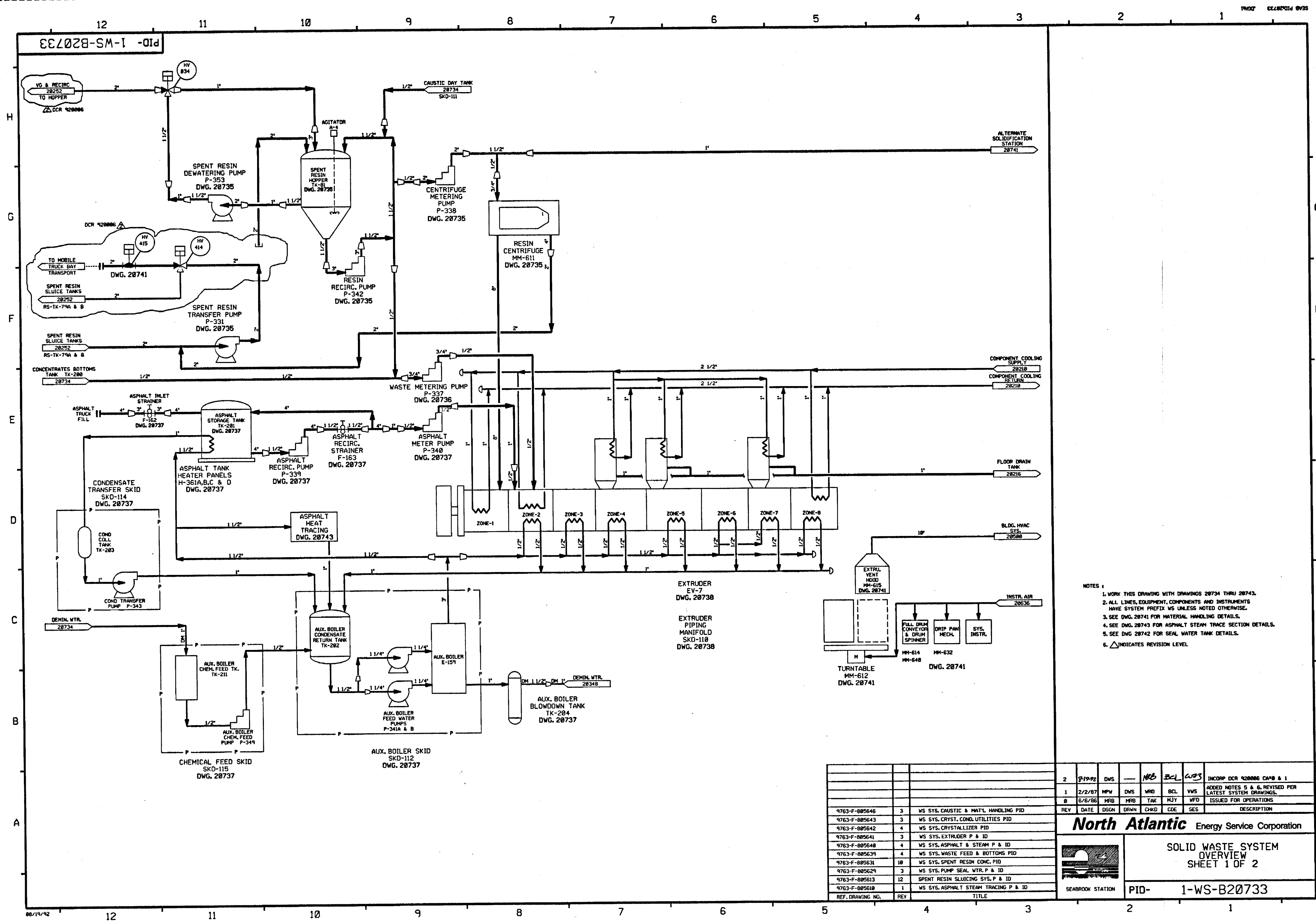
FPL ENERGY Seabrook Station



NITROGEN GAS
DETAIL

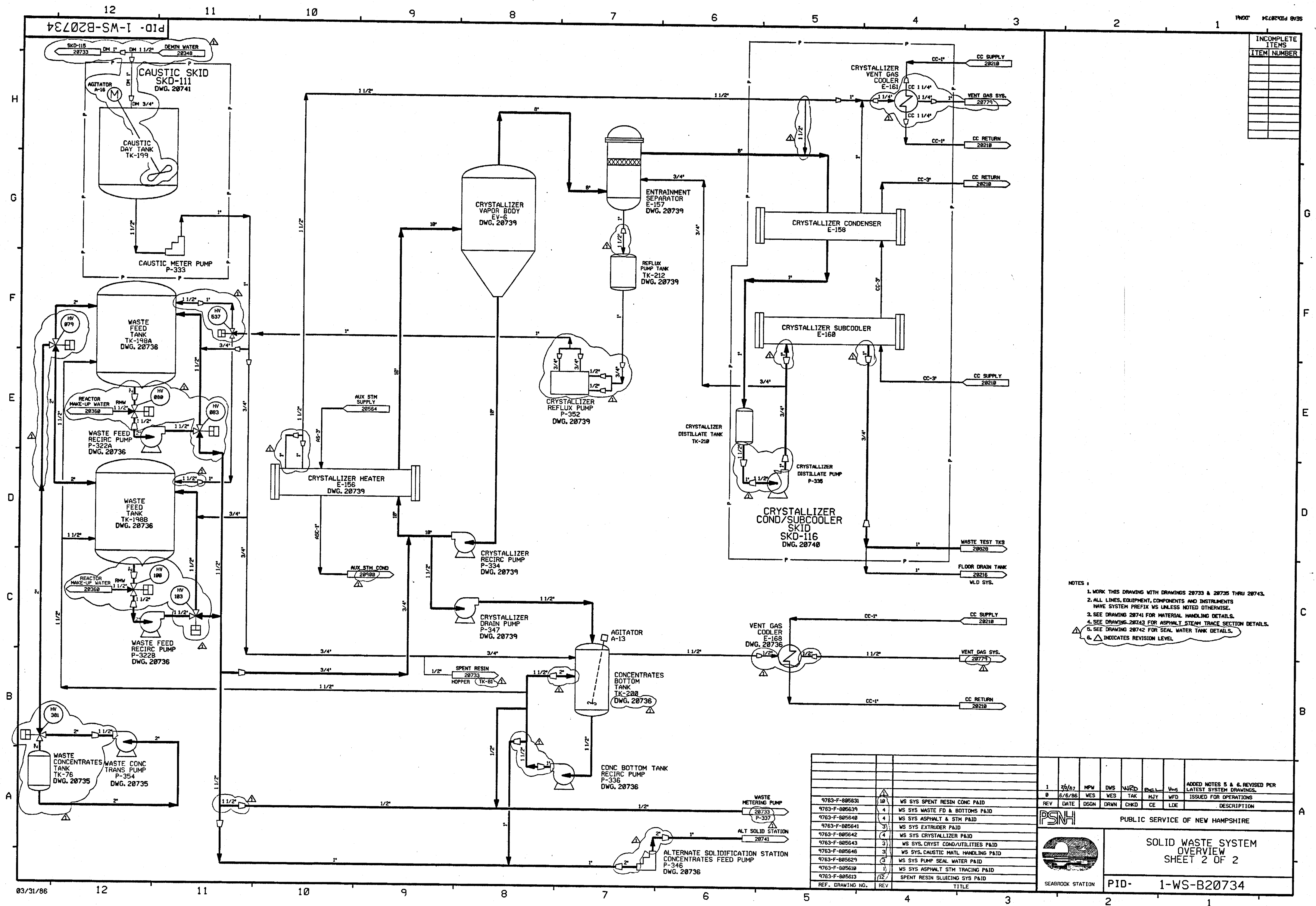
PID- 1-NG-B20135

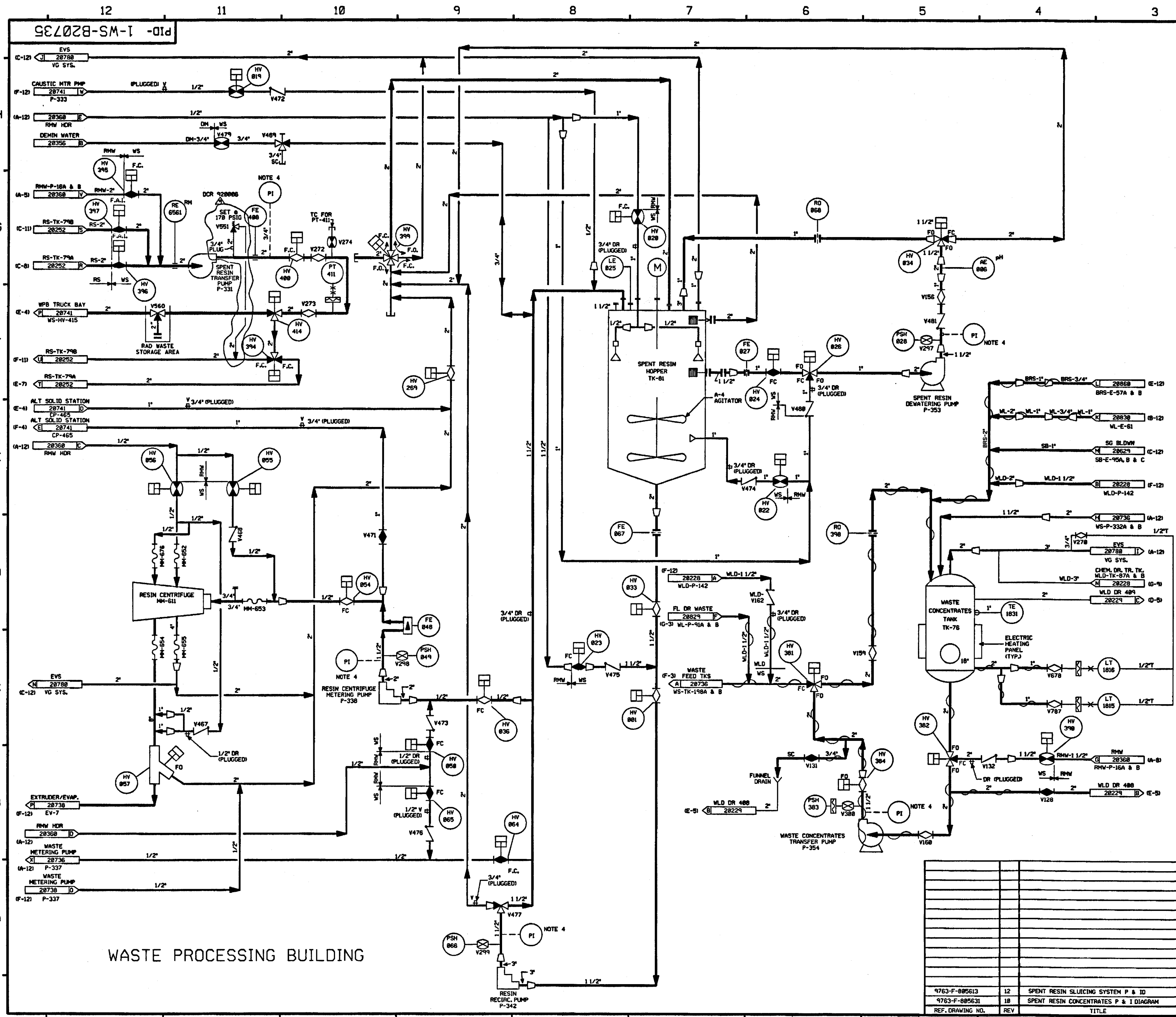
REF. DRAWING NO.	REV	TITLE
9763-F-805626	11	BORON RECOVERY SYS
9763-F-805618	10	BORON RECOVERY SYS
9763-F-805820	11	GAS SERVICE SYS NITROGEN NUCLEAR
9763-F-805613	12	SPENT RESIN SLUICING SYS
9763-F-805837	11	CHEM & VOLUME CONTROL SYS.



- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 28734 THRU 28743.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
 - 3. SEE DWG. 28741 FOR MATERIAL HANDLING DETAILS.
 - 4. SEE DWG. 28743 FOR ASPHALT STEAM TRACE SECTION DETAILS.
 - 5. SEE DWG. 28742 FOR SEAL WATER TANK DETAILS.
 - 6. Δ INDICATES REVISION LEVEL.

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

- NOTES:
1. WORK THIS DWG. WITH DWGS. 28733, 28734 & 28736 THRU 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MNS UNLESS NOTED.
 4. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
 5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 18....
 6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS OTHERWISE NOTED.
 7. HV INDICATES REMOTELY CONTROLLED VALVES.
 8. SEE PAID 28742 FOR PUMP SEAL WATER DIAGRAM.
 9. Δ INDICATES REVISION LEVEL.

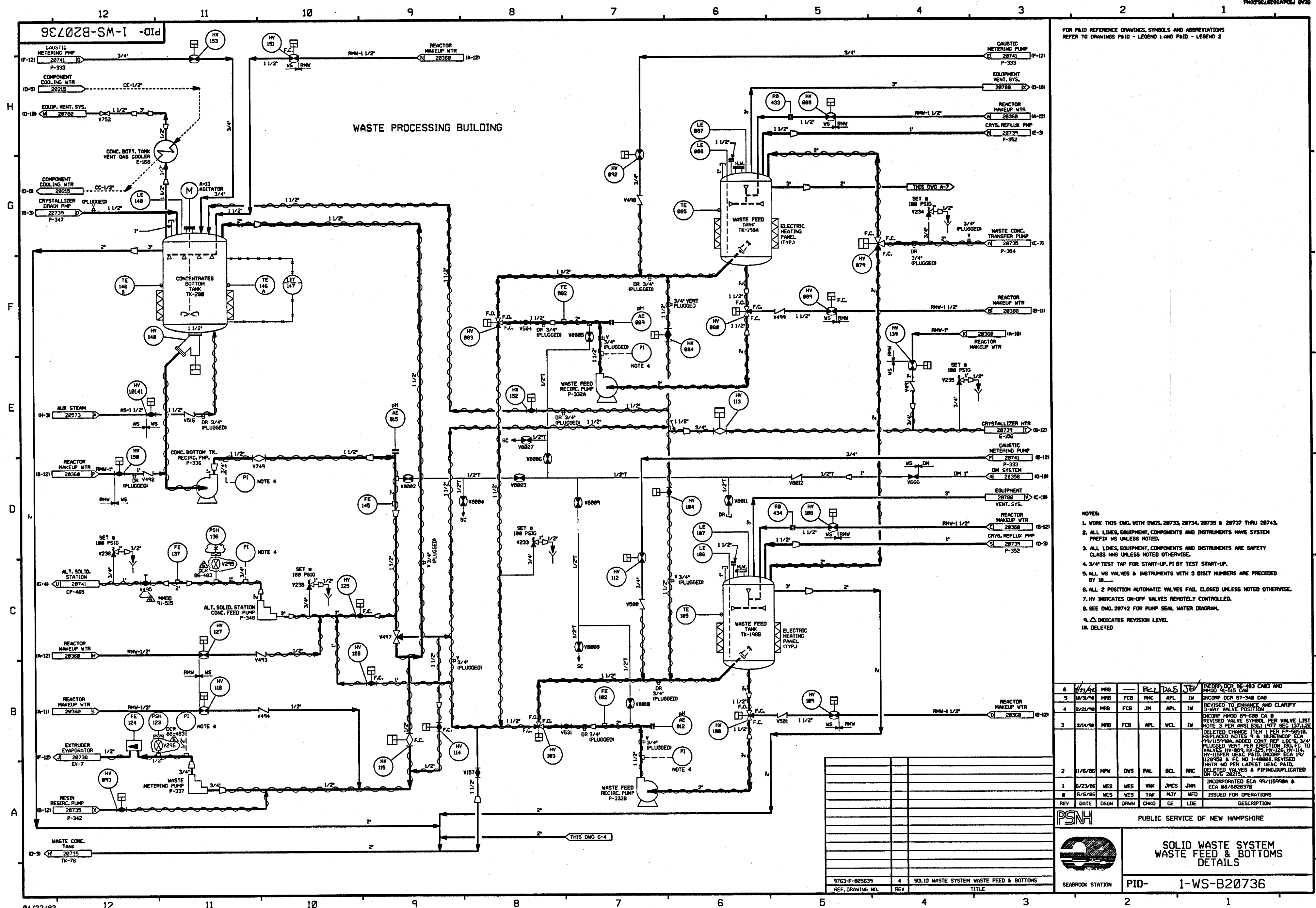
9	1/28/96	DVS	—	MRB	BCL	WFD	INCORP. DCR 928886 CA#13
8	8/19/92	DVS	—	MRB	BCL	WFD	INCORP. DCR 928886 CA#8 & 9
7	2/13/92	MRB	—	MRB	WFD	IV	INCORP. DCR 86-483 CAB AND MMCD 91-515 CAB
6	10/31/90	MRB	—	MRB	WFD	IV	INCORP. DCR 87-348 CAB
5	10/23/90	MRB	JM	MRB	WFD	IV	INCORP. DCR 86-508 CAB2 REVISED NOTE 8
4	7/13/90	MRB	RMC	JM	WFD	IV	INCORP. MMCD 90-516 CAB & 90-533 CAB
3	1/17/87	MRB	—	MRB	BCL	DVS	REVISED NOTE 3 ADDED CAPILLARY SYMBOLS TO PT-411 AND 3" MLD LINE INCORP. DCR 86-682.
2	10/28/86	JDM	OPD	WFD	BCL	RRC	INCORP. ECA 88/118383D.
1	11/4/86	PAL	OPD	WFD	BCL	RRC	ADDED NOTE 4, FAIL POSITION ON VLVs, PER UAC PAID, ADDED REF DESIG TO REF FLAG, UPDATED REV OF REF BLOCK, INCORP. ECA 88/882637A, UPDATE PER LATEST PAID.
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

SOLID WASTE SYSTEM
SPENT RESIN CONCENTRATES
DETAILS


PID- 1-WS-B20735

9763-F-895613	12	SPENT RESIN SLICING SYSTEM P & ID
9763-F-895631	18	SPENT RESIN CONCENTRATES P & I DIAGRAM
REF. DRAWING NO.	REV	TITLE



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

NOTES:

1. WORK THIS DWG. WITH DWGS. 28733, 28734, 28735 & 28737 THRU 28743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
4. 3/4" TEST TAP FOR START-UP, P1 BY TEST START-UP.
5. ALL MS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 100-.
6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
7. HV INDICATES ON-OFF VALVES REMOTELY CONTROLLED.
8. SEE DWG. 28742 FOR PUMP SEAL WATER DIAGRAM.
9.  INDICATES REVISION LEVEL.
10. (DELETED)

6	1/23/90	MRB	---	BCL	DAS	JE	INCOP DCR 86-483 CAB3 AND MPOD 86-483 CAB3
5	10/12/88	MRB	FCB	RMC	APL	IN	INCOP DCR 87-348 CAB
4	2/21/88	MRB	FCB	JM	APL	IN	REVISOR TO ENHANCE AND CLARIFY 2-MAY VALVE
3	3/14/86	MRB	FCB	APL	WCL	IN	INCOP MPOD 89-668 CAB 8 REVISED VALVE SYMBOL FOR VALVE LIST ITEM 3 PER MPOD 89-677 SEC 137E DELETED CHANGE ITEM 1 PER FP-5651A REPLACED NOTES 4 & 10 ARENDON CAB 99/115998A ADDED CONT REF. LOSS 344 PLUGGED WENT FOR ERECTION ISO. FC TO VALVES HY-859 HY-1159 HY-1159 HY-1159 LEAK PAID INCOP CAB 19/ 12/26/86 & FC NO 146686, REVISED INSTR NO FOR LATEST LEAK PAID DELETED VALVES & PIPING/DUPLICATION ON Dwg 86-483
2	1/16/86	MPW	DWS	PAL	BCL	RRC	INCORPORATED CAB 99/115998A & CAB 88/862837B
1	6/23/86	WES	WES	VNK	JMCS	JNN	
0	6/6/86	WES	WES	TKD	MJY	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	DE	LDE	DESCRIPTION

PSNH

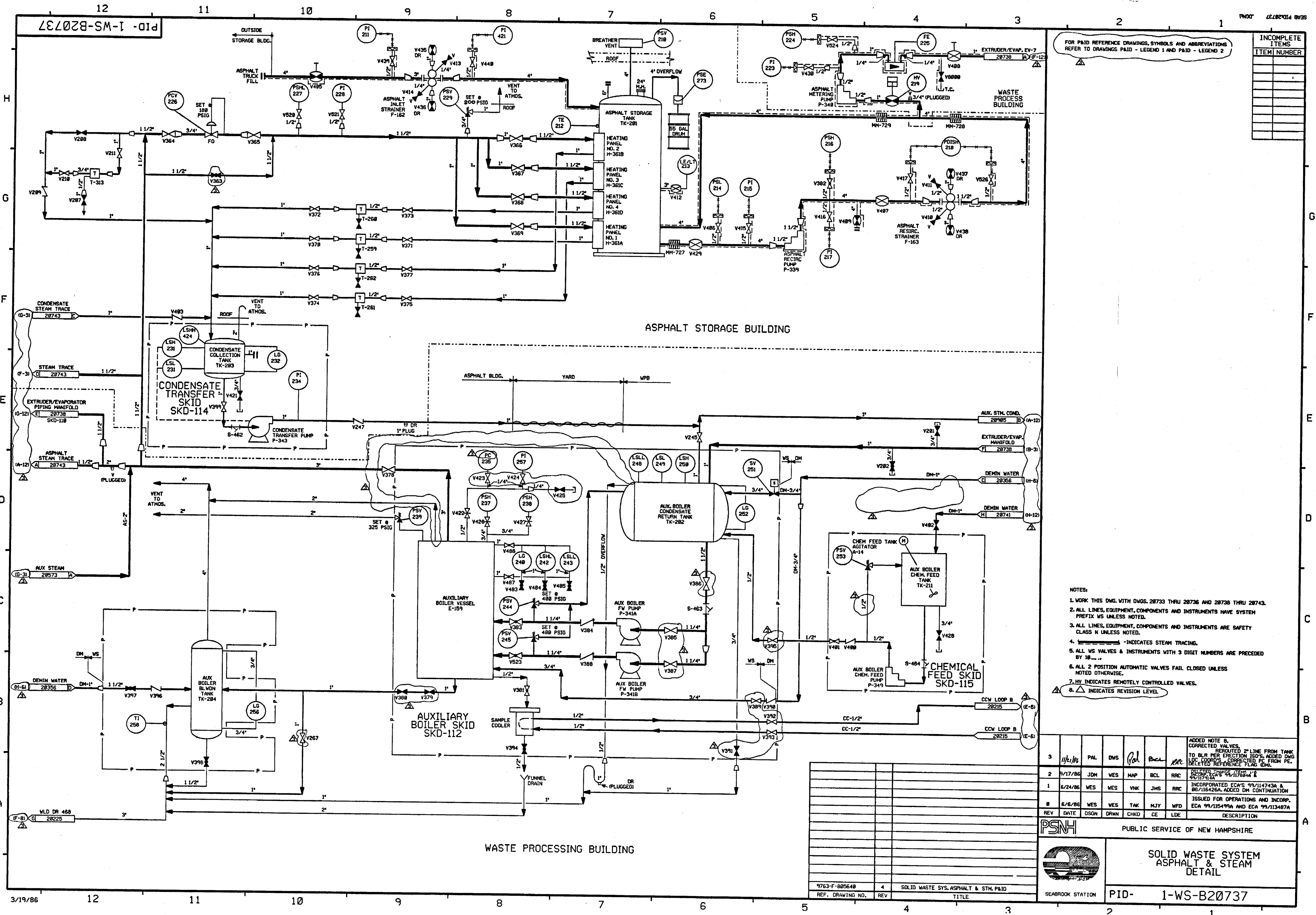
PUBLIC SERVICE OF NEW HAMPSHIRE

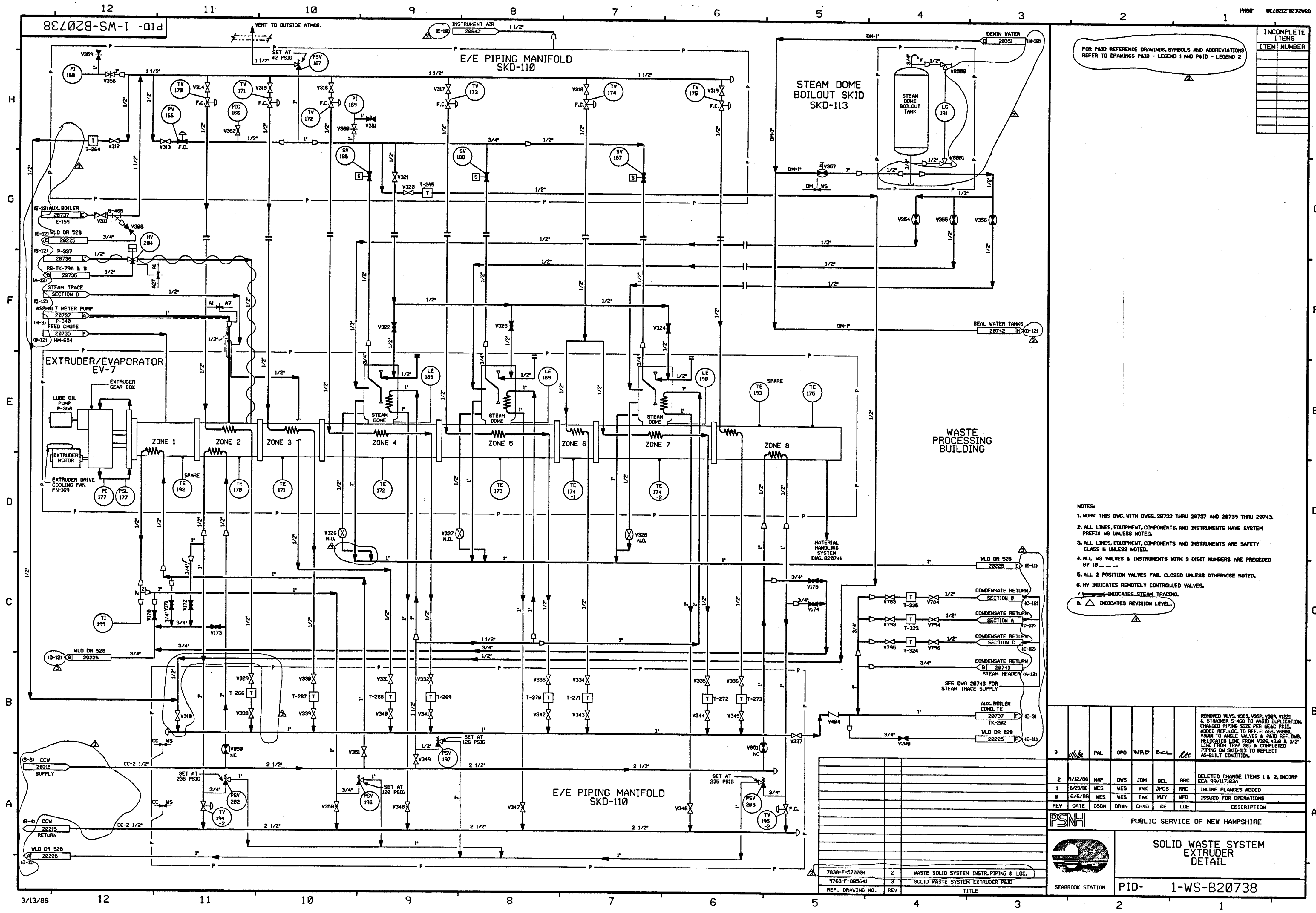


SOLID WASTE SYSTEM WASTE FEED & BOTTOMS DETAILS

SEABROOK STATION

PID- 1-WS-B20736






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

INCOMPLETE ITEMS	
ITEM	NUMBER

- NOTES:
1. WORK THIS DWG. WITH DWGS. 28733 THRU 28737 AND 28739 THRU 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10 -
 5. ALL 2 POSITION VALVES FAIL CLOSED UNLESS OTHERWISE NOTED.
 6. HV INDICATES REMOTELY CONTROLLED VALVES.
 7. - - - - - INDICATES STEAM TRACING.
 8. Δ INDICATES REVISION LEVEL.

REMOVED VLS V353, V352, V305, V1221 & STRAINER S-468 TO AVOID DUPLICATION. CHANGED PIPING SIZE PER LEAC P&ID. ADDED REF. LOC. TO REF. FLGS. V8000. V8000 TO ANGLE VALVES & P&ID REF. DWS. RELOCATED LINE FROM V326, V308 & 1/2" PIPING ON SKD-113 TO REFLECT AS-BUILT CONDITION.

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
2	9/12/86	MAP	DWS	JDM	BCL	RRC	DELETED CHANGE ITEMS 1 & 2, INCORP ECA 95/117183A
1	6/23/86	WES	WES	VWK	JWCS	RRC	IN-LINE FLANGES ADDED
0	6/6/86	WES	WES	TAK	HJY	WFD	ISSUED FOR OPERATIONS



PUBLIC SERVICE OF NEW HAMPSHIRE

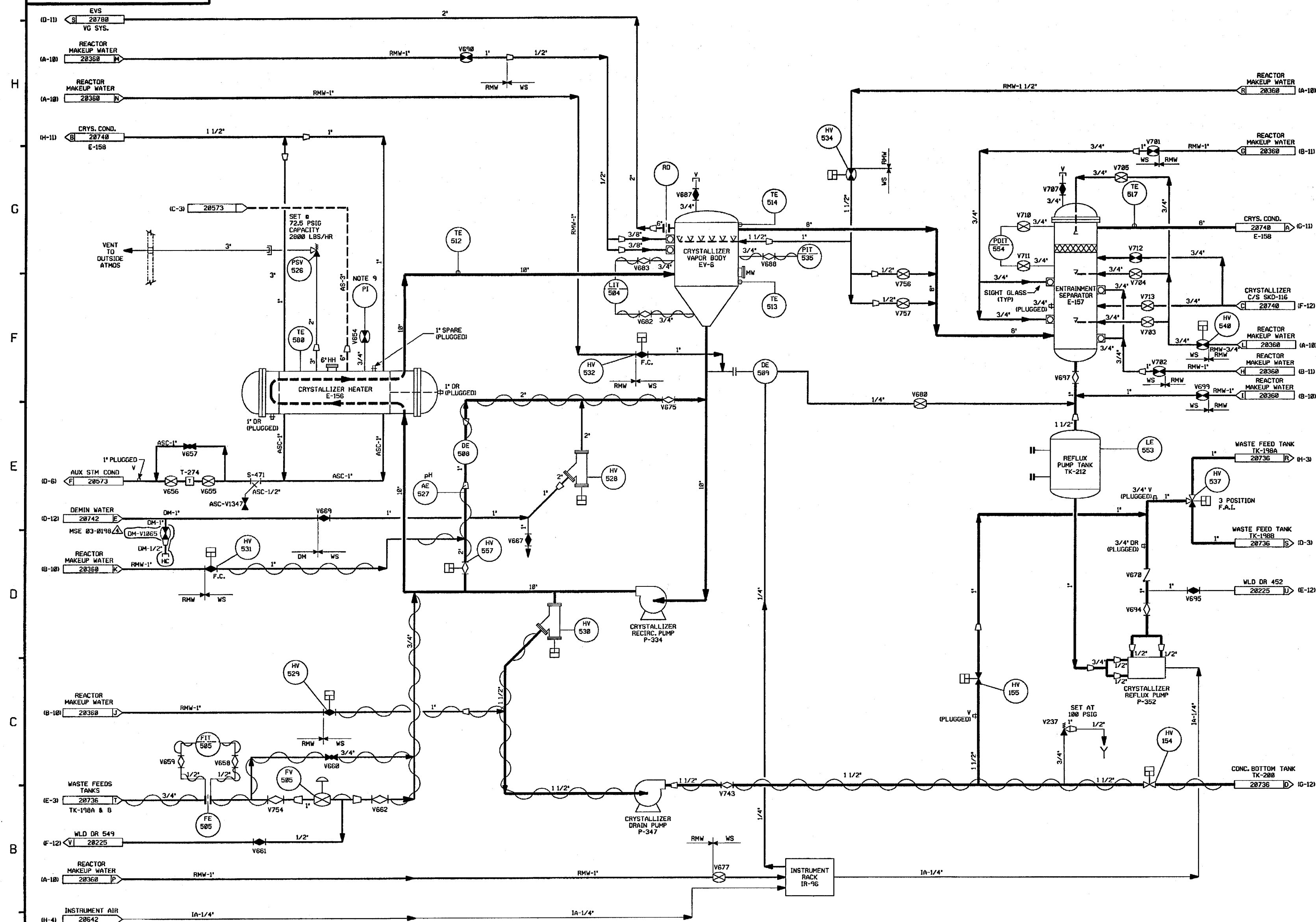
**SOLID WASTE SYSTEM
EXTRUDER
DETAIL**

PID- 1-WS-B20738

REF. DRAWING NO.	REV	TITLE
7838-F-578884	2	WASTE SOLID SYSTEM INSTR. PIPING & LOC.
5763-F-885641	3	SOLID WASTE SYSTEM EXTRUDER P&ID

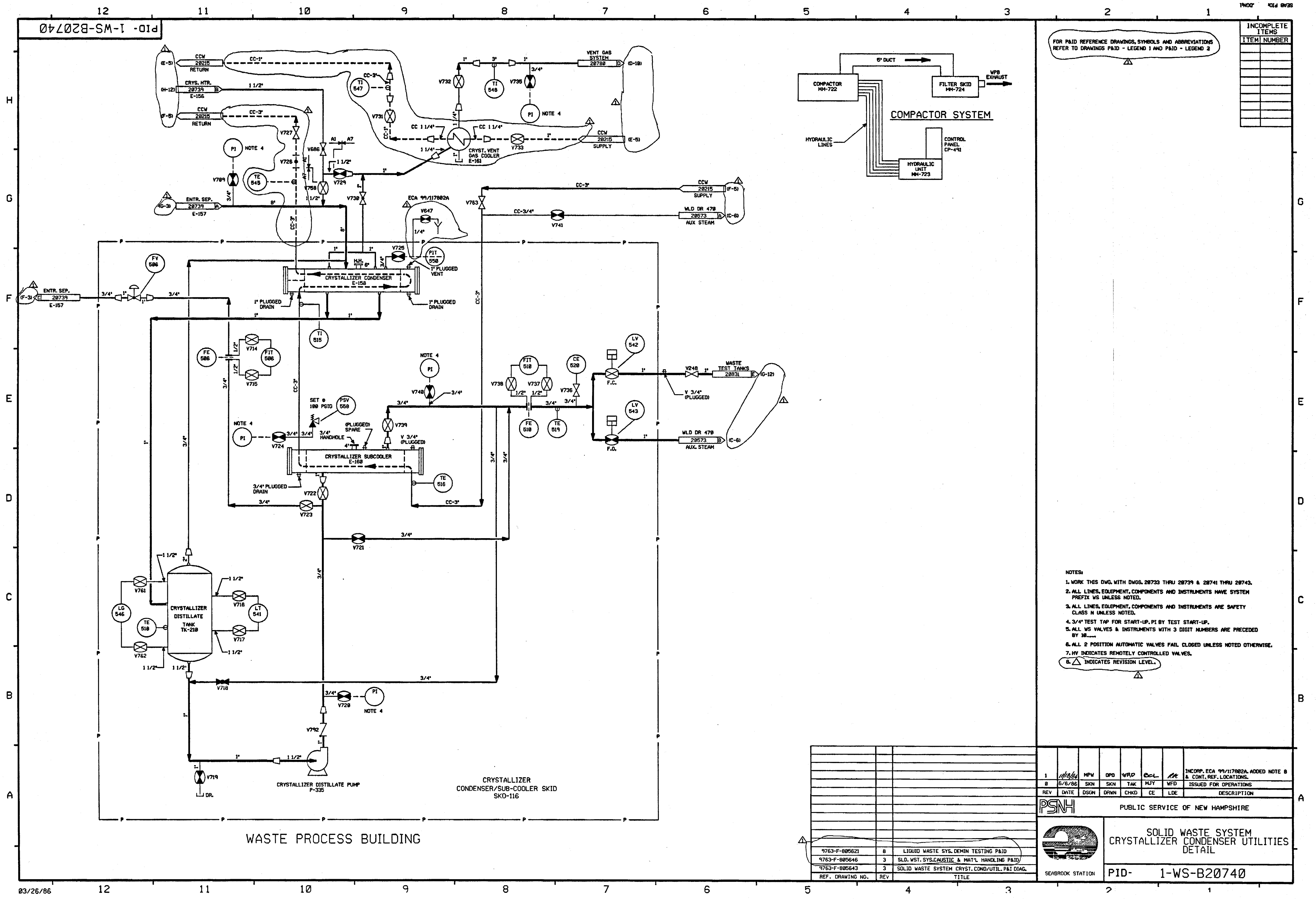
PID-1-WS-B20739

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



- NOTES:
1. WORK THIS DWG. WITH DWGS. 20733 THRU 20738 & 20740 THRU 20743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. INSTRUMENT VALVES V607 & V620 THRU V627 ARE LOCATED ON INSTRUMENT RACK IR-96.
 5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10....
 6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
 7. HV INDICATES REMOTELY CONTROLLED VALVES.
 8. SEE DWG. 20742 FOR PUMP SEAL WATER DIAGRAM.
 9. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
 10. Δ INDICATES REVISION LEVEL.

4	9/16/03	JM	BES	JAM	INCRP MSE 03-0190 REV 00
3	11/4/86	MPW	PAL	RRC	ADDED CONT. REF. LOCATIONS NOTE 10. FINE SIZE 10-100-200-250-300-350-400-450-500-550-600-650-700-750-800-850-900-950-1000-1050-1100-1150-1200-1250-1300-1350-1400-1450-1500-1550-1600-1650-1700-1750-1800-1850-1900-1950-2000-2050-2100-2150-2200-2250-2300-2350-2400-2450-2500-2550-2600-2650-2700-2750-2800-2850-2900-2950-3000-3050-3100-3150-3200-3250-3300-3350-3400-3450-3500-3550-3600-3650-3700-3750-3800-3850-3900-3950-4000-4050-4100-4150-4200-4250-4300-4350-4400-4450-4500-4550-4600-4650-4700-4750-4800-4850-4900-4950-5000-5050-5100-5150-5200-5250-5300-5350-5400-5450-5500-5550-5600-5650-5700-5750-5800-5850-5900-5950-6000-6050-6100-6150-6200-6250-6300-6350-6400-6450-6500-6550-6600-6650-6700-6750-6800-6850-6900-6950-7000-7050-7100-7150-7200-7250-7300-7350-7400-7450-7500-7550-7600-7650-7700-7750-7800-7850-7900-7950-8000-8050-8100-8150-8200-8250-8300-8350-8400-8450-8500-8550-8600-8650-8700-8750-8800-8850-8900-8950-9000-9050-9100-9150-9200-9250-9300-9350-9400-9450-9500-9550-9600-9650-9700-9750-9800-9850-9900-9950-10000-10050-10100-10150-10200-10250-10300-10350-10400-10450-10500-10550-10600-10650-10700-10750-10800-10850-10900-10950-11000-11050-11100-11150-11200-11250-11300-11350-11400-11450-11500-11550-11600-11650-11700-11750-11800-11850-11900-11950-12000-12050-12100-12150-12200-12250-12300-12350-12400-12450-12500-12550-12600-12650-12700-12750-12800-12850-12900-12950-13000-13050-13100-13150-13200-13250-13300-13350-13400-13450-13500-13550-13600-13650-13700-13750-13800-13850-13900-13950-14000-14050-14100-14150-14200-14250-14300-14350-14400-14450-14500-14550-14600-14650-14700-14750-14800-14850-14900-14950-15000-15050-15100-15150-15200-15250-15300-15350-15400-15450-15500-15550-15600-15650-15700-15750-15800-15850-15900-15950-16000-16050-16100-16150-16200-16250-16300-16350-16400-16450-16500-16550-16600-16650-16700-16750-16800-16850-16900-16950-17000-17050-17100-17150-17200-17250-17300-17350-17400-17450-17500-17550-17600-17650-17700-17750-17800-17850-17900-17950-18000-18050-18100-18150-18200-18250-18300-18350-18400-18450-18500-18550-18600-18650-18700-18750-18800-18850-18900-18950-19000-19050-19100-19150-19200-19250-19300-19350-19400-19450-19500-19550-19600-19650-19700-19750-19800-19850-19900-19950-20000-20050-20100-20150-20200-20250-20300-20350-20400-20450-20500-20550-20600-20650-20700-20750-20800-20850-20900-20950-21000-21050-21100-21150-21200-21250-21300-21350-21400-21450-21500-21550-21600-21650-21700-21750-21800-21850-21900-21950-22000-22050-22100-22150-22200-22250-22300-22350-22400-22450-22500-22550-22600-22650-22700-22750-22800-22850-22900-22950-23000-23050-23100-23150-23200-23250-23300-23350-23400-23450-23500-23550-23600-23650-23700-23750-23800-23850-23900-23950-24000-24050-24100-24150-24200-24250-24300-24350-24400-24450-24500-24550-24600-24650-24700-24750-24800-24850-24900-24950-25000-25050-25100-25150-25200-25250-25300-25350-25400-25450-25500-25550-25600-25650-25700-25750-25800-25850-25900-25950-26000-26050-26100-26150-26200-26250-26300-26350-26400-26450-26500-26550-26600-26650-26700-26750-26800-26850-26900-26950-27000-27050-27100-27150-27200-27250-27300-27350-27400-27450-27500-27550-27600-27650-27700-27750-27800-27850-27900-27950-28000-28050-28100-28150-28200-28250-28300-28350-28400-28450-28500-28550-28600-28650-28700-28750-28800-28850-28900-28950-29000-29050-29100-29150-29200-29250-29300-29350-29400-29450-29500-29550-29600-29650-29700-29750-29800-29850-29900-29950-30000-30050-30100-30150-30200-30250-30300-30350-30400-30450-30500-30550-30600-30650-30700-30750-30800-30850-30900-30950-31000-31050-31100-31150-31200-31250-31300-31350-31400-31450-31500-31550-31600-31650-31700-31750-31800-31850-31900-31950-32000-32050-32100-32150-32200-32250-32300-32350-32400-32450-32500-32550-32600-32650-32700-32750-32800-32850-32900-32950-33000-33050-33100-33150-33200-33250-33300-33350-33400-33450-33500-33550-33600-33650-33700-33750-33800-33850-33900-33950-34000-34050-34100-34150-34200-34250-34300-34350-34400-34450-34500-34550-34600-34650-34700-34750-34800-34850-34900-34950-35000-35050-35100-35150-35200-35250-35300-35350-35400-35450-35500-35550-35600-35650-35700-35750-35800-35850-35900-35950-36000-36050-36100-36150-36200-36250-36300-36350-36400-36450-36500-36550-36600-36650-36700-36750-36800-36850-36900-36950-37000-37050-37100-37150-37200-37250-37300-37350-37400-37450-37500-37550-37600-37650-37700-37750-37800-37850-37900-37950-38000-38050-38100-38150-38200-38250-38300-38350-38400-38450-38500-38550-38600-38650-38700-38750-38800-38850-38900-38950-39000-39050-39100-39150-39200-39250-39300-39350-39400-39450-39500-39550-39600-39650-39700-39750-39800-39850-39900-39950-40000-40050-40100-40150-40200-40250-40300-40350-40400-40450-40500-40550-40600-40650-40700-40750-40800-40850-40900-40950-41000-41050-41100-41150-41200-41250-41300-41350-41400-41450-41500-41550-41600-41650-41700-41750-41800-41850-41900-41950-42000-42050-42100-42150-42200-42250-42300-42350-42400-42450-42500-42550-42600-42650-42700-42750-42800-42850-42900-42950-43000-43050-43100-43150-43200-43250-43300-43350-43400-43450-43500-43550-43600-43650-43700-43750-43800-43850-43900-43950-44000-44050-44100-44150-44200-44250-44300-44350-44400-44450-44500-44550-44600-44650-44700-44750-44800-44850-44900-44950-45000-45050-45100-45150-45200-45250-45300-45350-45400-45450-45500-45550-45600-45650-45700-45750-45800-45850-45900-45950-46000-46050-46100-46150-46200-46250-46300-46350-46400-46450-46500-46550-46600-46650-46700-46750-46800-46850-46900-46950-47000-47050-47100-47150-47200-47250-47300-47350-47400-47450-47500-47550-47600-47650-47700-47750-47800-47850-47900-47950-48000-48050-48100-48150-48200-48250-48300-48350-48400-48450-48500-48550-48600-48650-48700-48750-48800-48850-48900-48950-49000-49050-49100-49150-49200-49250-49300-49350-49400-49450-49500-49550-49600-49650-49700-49750-49800-49850-49900-49950-50000-50050-50100-50150-50200-50250-50300-50350-50400-50450-50500-50550-50600-50650-50700-50750-50800-50850-50900-50950-51000-51050-51100-51150-51200-51250-51300-51350-51400-51450-51500-51550-51600-51650-51700-51750-51800-51850-51900-51950-52000-52050-52100-52150-52200-52250-52300-52350-52400-52450-52500-52550-52600-52650-52700-52750-52800-52850-52900-52950-53000-53050-53100-53150-53200-53250-53300-53350-53400-53450-53500-53550-53600-53650-53700-53750-53800-53850-53900-53950-54000-54050-54100-54150-54200-54250-54300-54350-54400-54450-54500-54550-54600-54650-54700-54750-54800-54850-54900-54950-55000-55050-55100-55150-55200-55250-55300-55350-55400-55450-55500-55550-55600-55650-55700-55750-55800-55850-55900-55950-56000-56050-56100-56150-56200-56250-56300-56350-56400-56450-56500-56550-56600-56650-56700-56750-56800-56850-56900-56950-57000-57050-57100-57150-57200-57250-57300-57350-57400-57450-57500-57550-57600-57650-57700-57750-57800-57850-57900-57950-58000-58050-58100-58150-58200-58250-58300-58350-58400-58450-58500-58550-58600-58650-58700-58750-58800-58850-58900-58950-59000-59050-59100-59150-59200-59250-59300-59350-59400-59450-59500-59550-59600-59650-59700-59750-59800-59850-59900-59950-60000-60050-60100-60150-60200-60250-60300-60350-60400-60450-60500-60550-60600-60650-60700-60750-60800-60850-60900-60950-61000-61050-61100-61150-61200-61250-61300-61350-61400-61450-61500-61550-61600-61650-61700-61750-61800-61850-61900-61950-62000-62050-62100-62150-62200-62250-62300-62350-62400-62450-62500-62550-62600-62650-62700-62750-62800-62850-62900-62950-63000-63050-63100-63150-63200-63250-63300-63350-63400-63450-63500-63550-63600-63650-63700-63750-63800-63850-63900-63950-64000-64050-64100-64150-64200-64250-64300-64350-64400-64450-64500-64550-64600-64650-64700-64750-64800-64850-64900-64950-65000-65050-65100-65150-65200-65250-65300-65350-65400-65450-65500-65550-65600-65650-65700-65750-65800-65850-65900-65950-66000-66050-66100-66150-66200-66250-66300-66350-66400-66450-66500-66550-66600-66650-66700-66750-66800-66850-66900-66950-67000-67050-67100-67150-67200-67250-67300-67350-67400-67450-67500-67550-67600-67650-67700-67750-67800-67850-67900-67950-68000-68050-68100-68150-68200-68250-68300-68350-68400-68450-68500-68550-68600-68650-68700-68750-68800-68850-68900-68950-69000-69050-69100-69150-69200-69250-69300-69350-69400-69450-69500-69550-69600-69650-69700-69750-69800-69850-69900-69950-70000-70050-70100-70150-70200-70250-70300-70350-70400-70450-70500-70550-70600-70650-70700-70750-70800-70850-70900-70950-71000-71050-71100-71150-71200-71250-71300-71350-71400-71450-71500-71550-71600-71650-71700-71750-71800-71850-71900-71950-72000-72050-72100-72150-72200-72250-72300-72350-72400-72450-72500-72550-72600-72650-72700-72750-72800-72850-72900-72950-73000-73050-73100-73150-73200-73250-73300-73350-73400-73450-73500-73550-73600-73650-73700-73750-73800-73850-73900-73950-74000-74050-74100-74150-74200-74250-74300-74350-74400-74450-74500-74550-74600-74650-74700-74750-74800-74850-74900-74950-75000-75050-75100-75150-75200-75250-75300-75350-75400-75450-75500-75550-75600-75650-75700-75750-75800-75850-75900-75950-76000-76050-76100-76150-76200-76250-76300-76350-76400-76450-76500-76550-76600-76650-76700-76750-76800-76850-76900-76950-77000-77050-77100-77150-77200-77250-77300-77350-77400-77450-77500-77550-77600-77650-77700-77750-77800-77850-77900-77950-78000-78050-78100-78150-78200-78250-78300-78350-78400-78450-78500-78550-78600-78650-78700-78750-78800-78850-78900-78950-79000-79050-79100-79150-79200-79250-79300-79350-79400-79450-79500-79550-79600-79650-79700-79750-79800-79850-79900-79950-80000-80050-80100-80150-80200-80250-80300-80350-80400-80450-80500-80550-80600-80650-80700-80750-80800-80850-80900-80950-81000-81050-81100-81150-81200-81250-81300-81350-81400-81450-81500-81550-81600-81650-81700-81750-81800-81850-81900-81950-82000-82050-82100-82150-82200-82250-82300-82350-82400-82450-82500-82550-82600-82650-82700-82750-82800-82850-82900-82950-83000-83050-83100-83150-83200-83250-83300-83350-83400-83450-83500-83550-83600-83650-83700-83750-83800-83850-83900-83950-84000-84050-84100-84150-84200-84250-84300-84350-84400-84450-84500-84550-84600-84650-84700-84750-84800-84850-84900-84950-85000-85050-85100-85150-85200-85250-85300-85350-85400-85450-85500-85550-85600-85650-85700-85750-85800-85850-85900-85950-86000-86050-86100-86150-86200-86250-86300-86350-86400-86450-86500-86550-86600-86650-86700-86750-86800-86850-86900-86950-87000-87050-87100-87150-87200-87250-87300-87350-87400-87450-87500-87550-87600-87650-87700-87750-87800-87850-87900-87950-88000-88050-88100-88150-88200-88250-88300-88350-88400-88450-88500-88550-88600-88650-88700-88750-88800-88850-88900-88950-89000-89050-89100-89150-89200-89250-89300-89350-89400-89450-89500-89550-89600-89650-89700-89750-89800-89850-89900-89950-90000-90050-90100-90150-90200-90250-90300-90350-90400-90450-90500-90550-90600-90650-90700-90750-90800-90850-90900-90950-91000-91050-91100-91150-91200-91250-91300-91350-91400-91450-91500-91550-91600-91650-91700-91750-91800-91850-91900-91950-92000-92050-92100-92150-92200-92250-92300-92350-92400-92450-92500-92550-92600-92650-92700-92750-92800-92850-92900-92950-93000-93050-93100-93150-93200-93250-93300-93350-93400-93450-93500-93550-93600-93650-93700-93750-93800-93850-93900-93950-94000-94050-94100-94150-94200-94250-94300-94350-94400-94450-94500-94550-94600-94650-94700-94750-94800-94850-94900-94950-95000-95050-95100-95150-95200-95250-95300-95350-95400-95450-95500-95550-95600-95650-95700-95750-95800-95850-95900-95950-96000-96050-96100-96150-96200-96250-96300-96350-96400-96450-96500-96550-96600-96650-96700-96750-96800-96850-96900-96950-97000-97050-97100-97150-97200-97250-97300-97350-97400-97450-97500-97550-97600-97650-97700-97



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

INCOMPLETE ITEM NUMBER	

- NOTES:
1. WORK THIS DWG. WITH DWGS. 28733 THRU 28739 & 28741 THRU 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
 5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10....
 6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
 7. HV INDICATES REMOTELY CONTROLLED VALVES.
 8. INDICATES REVISION LEVEL.

1		MPW	OPD	VPD	CC	MP	INCOMP. ECA 99/117882A. ADDED NOTE 8 & CONT. REF. LOCATIONS.	
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	ISSUED FOR OPERATIONS	
							DESCRIPTION	
PSNH								PUBLIC SERVICE OF NEW HAMPSHIRE
								SOLID WASTE SYSTEM CRYSTALLIZER CONDENSER UTILITIES DETAIL
SEABROOK STATION								PID- 1-WS-B20740


9763-F-805621	8	LIQUID WASTE SYS. DEMIN TESTING PAID
9763-F-805646	3	SLD. WST. SYS. CAUSTIC & MAT'L HANDLING PAID
9763-F-805643	3	SOLID WASTE SYSTEM CRYST. COND/UTIL. PAT DIAG.
REF. DRAWING NO.	REV	TITLE

CAUSTIC BULK STORAGE AND METERING SYSTEM

CCTV CAMERA LOCATION

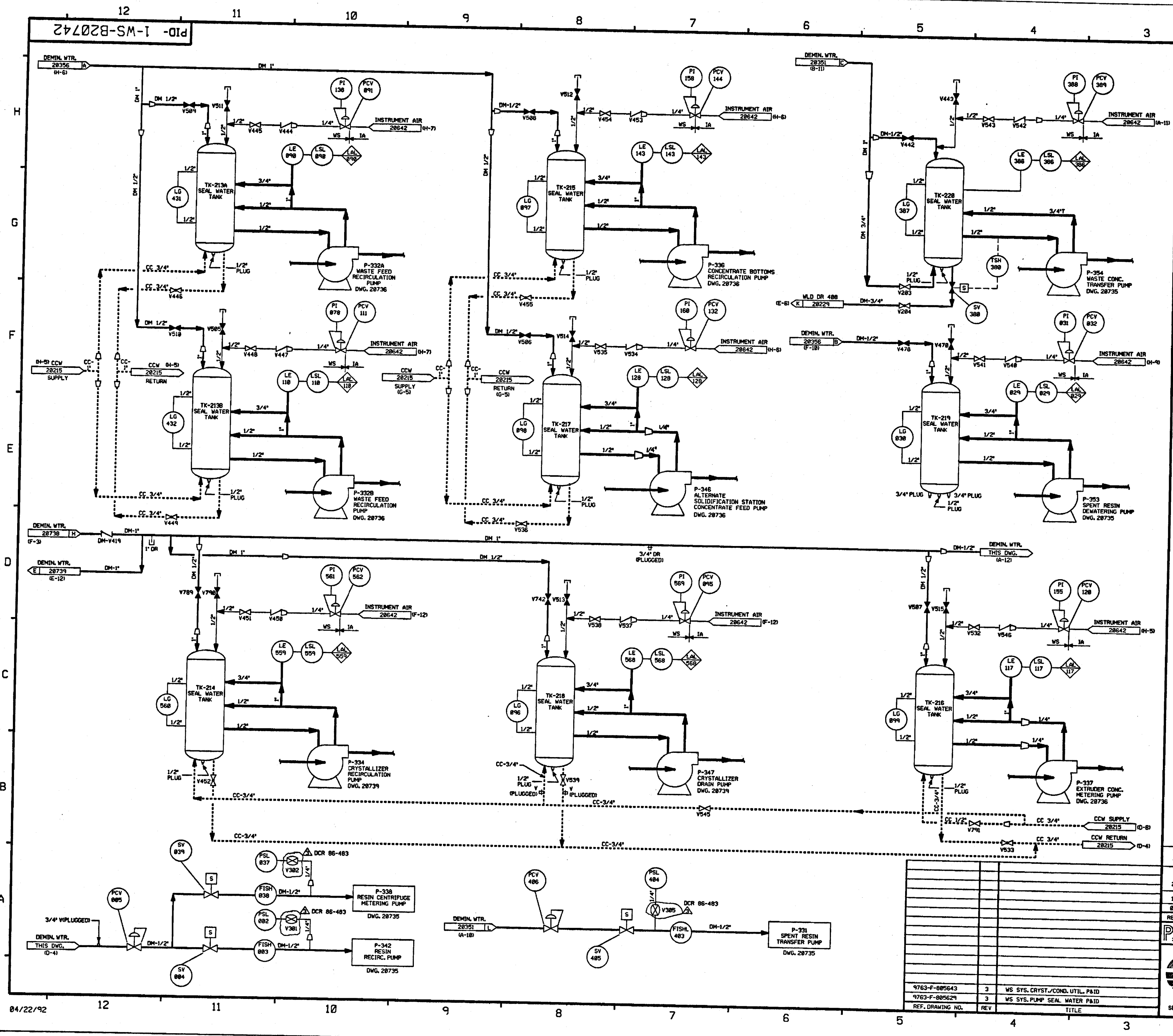
ALTERNATE SOLIDIFICATION STATION

MATERIAL HANDLING SYSTEM

North Atlantic Energy Service Corporation	
 SEABROOK STATION	SOLID WASTE SYSTEM CAUSTIC & MATERIAL HANDLING DETAIL
	PID- 1-WS-B20741



SEABROOK STATION



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 28733 THRU 28741 & 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS WNS, UNLESS NOTED OTHERWISE.
 4. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 18 - - - -
 5. Δ INDICATES REVISION LEVEL.

3	12/92	MRB	—	DRS	11/10	11/10	DCR 86-483 C&B3 REVISED NOTE 3 PER NEW DWS DESIGN STANDARD 31786 SECT 3.8
2	11/28/92	MRB	MRB	MRB	MRB	MRB	ADDED NOTE 5, CONT REF LOCATIONS. ADDED REDUCERS PER ERECTIONS ISO'S REVISED VALVE NO FROM V012 TO V014 PER ERECTION ISO.
1	06/23/92	MRB	MRB	MRB	MRB	MRB	INCORPORATED ECA 99/116162A, UPDATED PER U.E.C. P&ID.
0	06/06/92	MRB	MRB	TAK	MJT	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

PUBLIC SERVICE OF NEW HAMPSHIRE

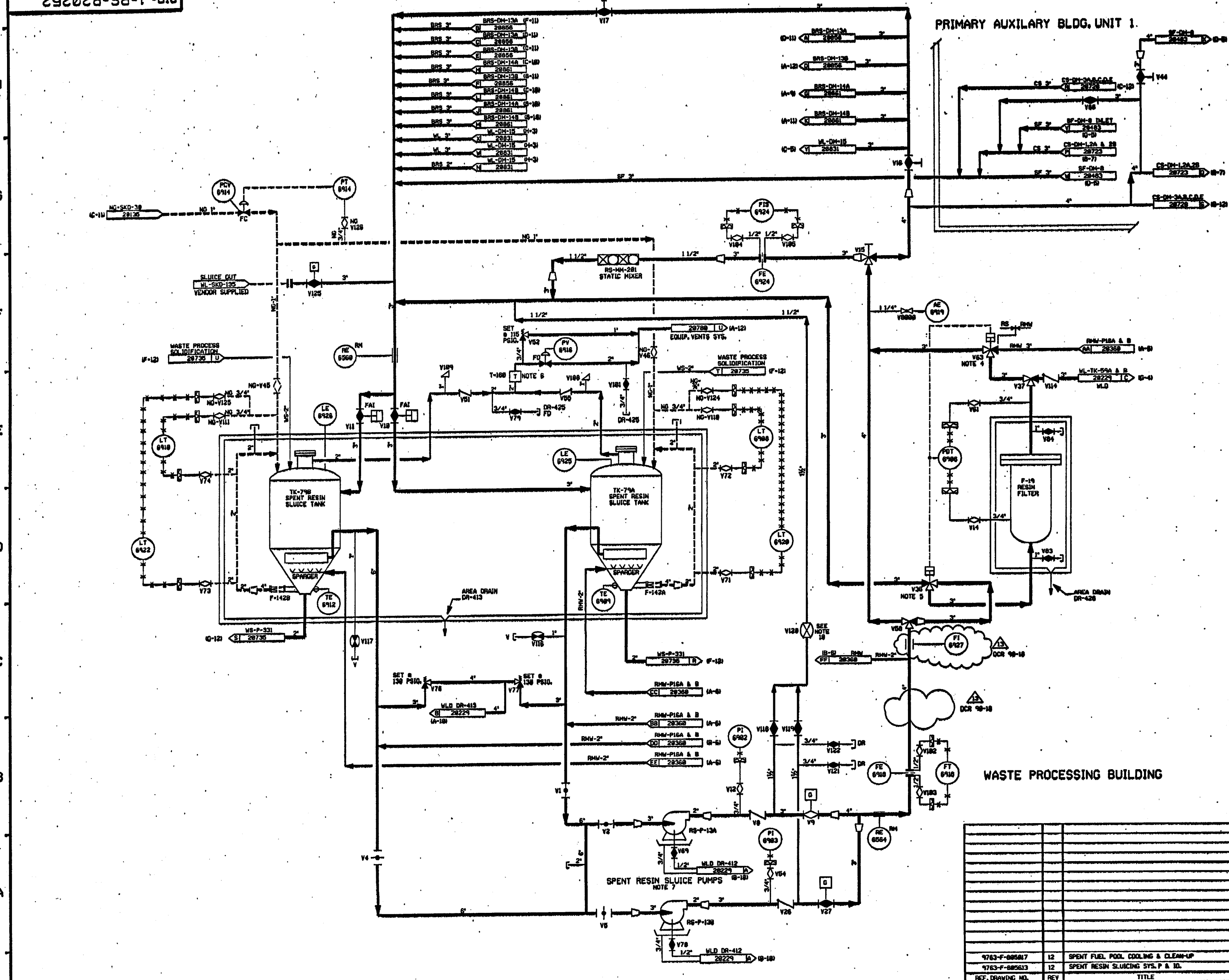
**SOLID WASTE SYSTEM
PUMP SEAL WATER
DETAIL**

SEABROOK STATION

PID- 1-WS-B20742

PID-1-RS-B20252


FOR PAID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - 1-00000 (1) AND P&ID - 1-00000 (2)



- NOTES:
- 1. ALL LINES, COMPONENTS, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX RS, UNLESS NOTED OTHERWISE.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INS.
 - 3. THE RS IS A ONE DRAINING SYSTEM AND AN OVERVIEW IS NOT REQUIRED.
 - 4. VALVE V63 FAILS WITH FLOW TO AE-097.
 - 5. VALVE V63 FAILS WITH FLOW TO RS-F-19.
 - 6. THE TRAP IS EQUIPPED WITH 1/2" PIPE PLUGS TOP & BOTTOM FOR VENT/DRAIN.
 - 7. FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 - 8. SEE DRAWING 20252.
 - 9. DELETED.
 - 10. INDICATES REVISION LEVEL.
 - 11. THIS VALVE IS THROTTLED.

REV	DATE	DSGN	CHKD	SES	DESCRIPTION
13	1/13/04	BCS	JIM	ZZB	RE-INCORP DCR 10-10 DCR 03-004308
12	7/28/07	MPV	BCS	VMS	INCORP H400 10-050 DCR IN
11	12/13/04	DMS	BCL	VMS	INCORP DCR 10-32 CAP4 AND H400 10-245 DCR 5
10	8/17/03	MRS	BCL	VMS	INCORP DCR 10-32 CAP3
9	8/24/02	BCL	MRS	JEV	RE-INCORP DCR 10-18 CAP
8	8/15/02	DMS	MRS	WJZ	INCORP DCR 10-088 CAP1
7	8/16/02	MRS	MPV	JEV	INCORP DCR 10-18 CAP
6	1/13/02	RHC	MRS	JEV	INCORP DCR 10-32 CAP
5	8/14/01	MPV	BCL	RRC	RE-INCORP DCR 10-215 CAP2 DELETED SPEC. BREAKS, REFERENCE P&ID B20100 IN PHANTOM
4	11/4/00	JOM	WJD	RRC	REVISED NOTES, CORRECTED LOCATION OF DRAIN LINE PER ECA 74/180422A
3	9/12/00	MPV	MVP	RRC	ADDED VALVE V63B TO AE-097
2	8/24/00	TAK	WFS	RRC	REVISED CONTINUATIONS, CORRECTED REF. DRA. REV. 1.0/0.0 PER LATEST L&AC P&ID
1	05/09/00	DGP	TAK	WFD	REVISED CONTINUATIONS
0	06/22/00	TAK	DMS	WFD	ISSUED FOR OPERATIONS

FPL ENERGY
Seabrook Station



SPENT RESIN SLUICING SYSTEM

PID- 1-RS-B20252

REF. DRAWING NO.	REV	TITLE
1763-F-085817	12	SPENT FUEL POOL COOLING & CLEAN-UP
1763-F-085613	12	SPENT RESIN SLUICING SYS. P & ID.

