20829

20831

20830

INTAKE & DISCHARGE TRANSITION STRUCTURE

V222

V223

WLD-S-7 20216

WLD-4"

WL-TK-59A FLOOR DRAIN TANK

WL-TK-59B FLOOR DRAIN TANK

DCR 91-32

WL-SKD-135 (VENDOR SUPPLIED)

V348

WL-F-54A FLOOR DRAIN FILTER

WL-F-54B FLOOR DRAIN FILTER

WL-P-91A FLOOR DRAIN TANK PUMP

WL-P-91B FLOOR DRAIN TANK PUMP

CHEMICAL ADDITIVE PUMP P-381

55 GAL. CAUSTIC SOLUTION SUPPLY

WL-TK-63A WASTE TEST TANK

WL-TK-63B WASTE TEST TANK

WL-DM-15 WASTE DEMIN.

WL-F-59 WASTE DEMIN. FILTER

FCV 1458

F.C.

SB-E-88A & B 20625 FLASH TANK BOTTOMS COOLERS

SB-4"

WL-P-96A WASTE TEST TANK PUMP

WL-P-96B WASTE TEST TANK PUMP

TO ATMOS.

WL-EV-4 WASTE EVAPORATOR

EV 9

LCV 17

LCV 2

WL-E-58 WASTE EVAPORATOR REBOILER

WL-E-59 WASTE EVAPORATOR DISTILLATE CONDENSER

WL-E-60 WASTE EVAPORATOR DISTILLATE COOLER

WL-TK-61 WASTE EVAPORATOR ACCUMULATOR

WS-TK-76 29734

V183

WL-E-61 WASTE EVAPORATOR BOTTOMS COOLER

WL-P-95 WASTE EVAPORATOR BOTTOMS PUMP

WL-P-93 WASTE EVAPORATOR REBOILER PUMP

WL-P-94 WASTE EVAPORATOR DISTILLATE PUMP

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. △ - INDICATES DWG. REVISION LEVEL.

REF. DRAWING NO.	REV	TITLE
9763-F-885631	10	SOLID WASTE SYS. SPT. RESIN CONC. P & ID
9763-F-885621	8	WL SYSTEM-DEMIN. & TESTING - P & ID
9763-F-885620	11	WL SYSTEM-EVAPORATOR EV-4 - P & ID
9763-F-885619	11	WL SYSTEM-STORAGE & FILTRATION - P & ID

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
3	12/19/94	BCL	—	DWS	MWW	VWS	INCORP DCR 91-32 CA-8
2	5/4/90	MRB	FCB	APL	DWS	ES	INCORP DCR 88-96 EA 89
1	2/2/87	WDS	TAK	WRD	BCL	VWS	ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS
0	1/28/86	JDM	GJS	WES	MJY	WFD	ISSUED FOR OPERATIONS

North Atlantic Energy Service Corporation

SEABROOK STATION

LIQUID WASTE SYSTEM OVERVIEW

PID- 1-WL-B20828

06/08/94

PID- 1-WL-B20829

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

FLOOR DRAIN TANKS

FLOOR DRAIN TANK PUMPS

FLOOR DRAIN FILTERS

NOTES:
1. WORK THIS DWG WITH DWGS 20828, 20830, & 20831.
2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX WL UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
4. FLUSH, VENT, AND/OR SAMPLE CONNECTIONS PIPE TO LOCAL DRAIN FUNNEL.
5. TELL TALE DRAIN PIPED TO LOCAL DRAIN FUNNEL.
6. START UP ENGINEERING TO PROVIDE PIPING, VALVES & PI'S; ALSO STRAINER BLOW OFF PIPING &VALVES FOR INITIAL FLUSHING OPERATION. STRAINER SCREEN TO BE REMOVED AFTER START UP.
7. SEE P&ID DM-20353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
10	6/8/06	BCS	JWL	DJH	INCORP MMOD 05-524 DCN-00, 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	6/26/87	JDM	PAL	RRC	INCORP DCR 86-673.
2	11/26/86	CSB	WRD	RRC	ADDED P&ID REF. DWG NOTE. DWG CONT COORD'S, SEAL-S TO PI-1586 & 1588 PER ASBUILT COND. FLANGES & FITTINGS PER ASBUILT COND. REVISED LT TAG NO. TO CORRECT DRAFTING ERRORS, REV'D 2" LINE TO WL-F- 54A & B PER ASBUILT.
1	6/13/86	DWS	DWS	RRC	ADDED WS, WLD & VG CONTINUATIONS
0	1/28/86	JDM	WES	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-805631	10	SOLID WASTE SYS. SPT. RESIN CONC. P & ID
9763-F-805619	11	WL SYSTEM - STORAGE & FILTRATION - PID

FPL ENERGY Seabrook Station

LIQUID WASTE SYSTEM STORAGE & FILTRATION DETAIL

PID- 1-WL-B20829

06/08/06

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:

1. WORK THIS DWG WITH DWGS 20828, 20829, & 20831.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SYSTEM PREFIX WL UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, NON-SEISMIC CATEGORY I UNLESS NOTED OTHERWISE.
4. CHEMICAL ADDITION & REMOVAL CONNECTIONS.
5. ENTIRE LINE IS FLEX CONNECTION.
6. SEE DM-28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
7. △ - 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 1-DM-V94 ON DWG. DM-28351 (H-11), 1-WL-FCV-1 AND 1-AS-V539 ON DWG. AS-28573 (H-18) AND (F-18)

REV	DATE	DSGN	DRWN	CHKD	COE	SES	DESCRIPTION
7	12/17/96	MRB		BCL	DWS	DJM	INCORP DCR 87-84 CA 28
6	11/7/92	MRB		BCL	DWS	DJM	INCORP DCR 87-84 CA8 & ADDED NOTE 8
5	6/23/92	MRB		MPW	DWS	JEV	INCORP MMOD 91-515 CA8
4	9/24/90	MRB	FCB	RMC	APL	BCL	INCORP MMOD 90-516 CA8
3	9/16/87	JDM	HIW	BCL	MPW	RRC	INCORP DCR 86-587, REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS, CORRECTED DRAFTING ERRORS. AND REV'D NOTE 3
2	12/3/86	FJR	OPO	WRD	BCL	RRC	REINCORP'D ECA 19/116478C & 88/116462C CORRECTED 2" PIPE ROUTING & DRAFTING ERRORS PER ERECTION ISO.& UE&C P&ID. ADDED Dwg. CONT. COORD'S.& V8803 PER ASBUILT CONDITIONS. DELETED & ADDED REDUCERS PER ECA 19/116808C.
1	6/20/86	JDM	WES	DWS	JMS	RRC	INCORP ECA 19/116808A,88/116462C, 19/116478C. ADDED & REV'D CONTINUATIONS REV'D V319 GLOBE VALVE TO V320 GATE PER UE&C UPDATE.
0	1/28/86	JDM	SKN	WES	HJY	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-885628	11	WL SYSTEM-EVAPORATOR EV-4 PID
9763-F-885619	11	WL SYSTEM-STORAGE & FILTRATION PID

North Atlantic Energy Service Corporation

SEABROOK STATION

LIQUID WASTE SYSTEM EVAPORATOR EV-4 DETAIL

PID- 1-WL-B20830

11/12/92

NHY PID:28831.DGN:1

PID- 1-WL-B20831

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 28828, 28829 & 28838.

2.) ALL LINES, EQUIPMENT, COMPONANTS AND INSTRUMENTS HAVE SYSTEM PREFIX WL, UNLESS NOTED OTHERWISE.

3.) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.

4.) FLUSH AND SAMPLE CONNECTION; USE FLEXIBLE HOSE TO A LOCAL DRAIN FUNNEL. TO FLUSH THE LINE, USE POLYETHYLENE COLLECTION BOTTLES TO COLLECT SAMPLES.

5.) RESIN FILL TANK (TYP.) AS SHOWN ON DWG. BRS-28861.

6.) 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.

7.) LINE BLIND FLANGED TO ISOLATE UNIT 1 FROM UNIT 2

8.) △ INDICATES REVISION LEVEL.

9.) INSTRUMENT REFERENCES
- (A) FROM SB-P-292 DRAWING SB-28628
- (B) FROM BRS-P-98AAB DRAWING BRS-28861

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	5/12/04	JM	BCS	FRB	INCORP CR #3-81971 REV #8
12	1/13/99	BCS	MPW	VWS	INCORP MMOD 98-686 DCN-#8
11	4-29-98	DRL	BCS	JCM	INCORP MMOD 97-632 DCN-#8
10	3-7-97	BCS	DWS	RRC	INCORP. DCR 96-22 DCN-8
9	6/17/93	MRB	BCL	VWS	INCORP. DCR 91-32 CA8
8	4/21/92	MRB	BCL	JEV	INCORP DCR 90-39 CA3 & MMOD 91-515 CA8
7	10/29/90	MRB	JM	BCL	INCORP MMOD 90-681 CA#8
6	3/28/89	MRB	PAL	MJY	INCORP. DCR 86-185 CA 3
5	11/1/88	MRB	GPM	MJY	INCORP. DCR 88-51 CA #1 & ECA 99/1128568 REVISED: NOTE 3, PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES ADDED: CONTINUATION TAG & LOCATION COORDINATE OFF V257 DELETED: INCOMPLETE ITEM, DUPLICATED VALVE SB-V259 ON DWG SB-28626
4	12/22/86	JDM	WRD	RRC	ADDED NOTE 8, SAMPLE SINK SUPPLY LINES, CONT. REF. DWGS., P&ID REF. DWG. NOTE., & VLVS., V8804,5,6,7. INCORP. ECA 19/189976A
3	8/28/86	JDM	WRD	RRC	INCORP ECA 19/111538C
2	6/2/86	JDM	MAP	RRC	INCORP ECA 19/178628
1	5/19/86	JDM	DWS	RRC	ADDED INCOMP. ITEM, ADDED & REVD CONT INCORP ECA 19/116124A & ECA 99/886894A INCORP LATEST REF DWG REVS
0	1/28/86	JDM	WES	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-085621	8	WL SYSTEM - DEMIN. & TESTING P & ID
9763-F-085619	18	WL SYSTEM - STORAGE & FILTRATION P & ID

FPL ENERGY Seabrook Station

LIQUID WASTE SYSTEM DEMINERALIZATION & TESTING DETAIL

PID- 1-WL-B20831

WASTE TEST TANK PUMPS

02/11/2004

PID- 1-WG-B20768

20770

20773

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

20770

REFRIGERATION CONDENSING UNIT SKD-18GA

E-83A

GAS CHILLERS

E-83B

REFRIGERATION CONDENSING UNIT SKD-18GB

IODINE GUARD BED

F-68A

F-68B

20771

WASTE GAS CHILLER DRYER PACKAGE SKD-11

INLINE ELECTRIC HEATER H-3

WASTE GAS DRYER SKD-11

D-3A

D-3B

D-3C

PURGE GAS CONDENSER E-67

20770

AMBIENT CARBON DELAY BEDS

MM-26A

MM-26B

MM-26C

MM-26D

MM-26E

C-6

COMPRESSOR

REGENERATIVE COMPRESSOR UNIT PACKAGE SKID-22

AFTERCOOLER SKID SKD-18Z

AFTERCOOLER E-15B

MOISTURE SEPARATOR MM-42A

DRAIN POT

TK-124

P-26B

DRAIN TRANSFER PUMP

BRS-TK-66A & B 20853

UNIT 2 20779

2-WG 1"

VG HEADER 20779

UNIT 2 UNIT 1

CS 20720

MM00 940585

PCV 1492

PCV 8156

PCV 1728

N2 STORAGE 20132

VG HEADER 20779

20772

PARTICULATE FILTERS

F-55A

F-55B

F-144A

F-144B

AFTERCOOLER E-82A

AFTERCOOLER E-82B

SKD-12A H2 COMPRESSOR UNIT PACKING GAS COMPRESSOR PACKAGE A

H2 GAS COMPRESSOR C-5A

H2 GAS COMPRESSOR C-5B

SKD-12B H2 COMPRESSOR UNIT PACKING GAS COMPRESSOR PACKAGE B

HYDROGEN SURGE TANK TK-65

PCV 1654

PCV 1633

PCV 1491

FV 1682

VG HEADER 20779

20771

20773

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 NNS, UNLESS NOTED OTHERWISE.
4. △ INDICATES REVISION LEVEL

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

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
3	11/18/95	DWS	—	BCL	MPM	MPM	INCORP MMOD 940585 CA#8
2	10/25/90	MRB	RMC	JM	MPM	BCL	RECONFIGURED DETAIL DWG. BOUNDRIES IN ACCORDANCE WITH CHANGES SPECIFIED IN MMOD 90-681, CA8 ADDED P&ID LEGEND NOTE
1	12/12/87	MPW	DWS	PAL	BCL	VWS	ADDED NOTE 4. REVISED PER LATEST SYSTEM DRAWINGS.
0	2/21/86	OPD	MRB	JDM	MJY	WFD	ISSUED FOR OPERATIONS

North Atlantic Energy Service Corporation

SEABROOK STATION

WASTE GAS SYSTEM OVERVIEW

PID- 1-WG-B20768

1/17/95

PID- 1-WG-B20770

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 28768, 28771, 28772 & 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 NNS, UNLESS NOTED OTHERWISE.
4. △ - INDICATES REVISION LEVEL.
5. DELETED

REV	DATE	DSGN	CHKD	SES	DESCRIPTION
19	1/27/03	MPW	JM	BCS	REINCORP DCR 98-008 DCN 08
18	5/17/02	JH	MPW	JW	INCORP MMOD 01-9534 DCN 08
17	4/27/99	RWS	BCS	VWS	INCORP MMOD 98-9564 DCN 08
16	4-22-99	RWS	DWS	APB	INCORP DCR 98-008 DCN 08
15	8-26-98	MPW	BCS	BAW	INCORP DCR 98-008 DCN 01 PARTIAL INCORP. DCR 98-008 DCN 08
14	8-18-97	MPW	BCS	VWS	INCORP MMOD 96-531 DCN 08
13	6-11-95	BCL	MPW	RJF	INCORP MMOD 95-505 CA*8
12	3-10-95	BCL	MPW	MRJ	INCORP MMOD 930535 CA*8
11	12-09-94	DWS	BCL	MHO	INCORP MMOD 930545 CA*8
10	6/3/94	BCL	MRB	JLD	INCORP DCR 93-23 CA01
9	11-7-92	MRB	BCL	DJM	INCORP DCR 87-84 CA8 & 11
8	10-21-92	DWS	MRB	DJM	INCORP DCR 88-82 CA8
7	10-9-91	MRB	JM	RSG	INCORP. DCR 89-67 CA01
6	10/26/90	MRB	JM	BCL	INCORP. MMOD 90-681 CA8
5	12/28/89	GPM	PAL	RRC	REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES, VG-1993 VALVE SYMBOL PER FP93674, CONT COORD, VALVE V61 SYSTEM DESIGNATION FROM VG TO WG PER LE & C P & ID 885611
4	1/6/88	MPW	DWS	MJY	INCORPORATED: DCR 87-314
3	11/21/86	MPW	PAL	RRC	DELETED NOTE & ADDED CONT REF LOCATIONS, RACK MOUNTED SYMBOL TO INSTRUMENTS PER S.I.S., REVISED LINE SIZE PT TO PI, VALVE NO V233 TO V223 & LOCATION OF AE-1624 & AE-1725 PER ERECTION ISO.
2	9/2/86	JDM	MAP	RRC	INCORP ECA 99/117388
1	6/28/86	JDM	DWS	RRC	RESOLVED CHG ITEM 3 & INCORP ECA'S 19/109685A, 99/115387A, 99/886197A 99/115139A & 19/881587A
0	02/21/86	GPO	JDM	WFD	ISSUED FOR OPERATIONS

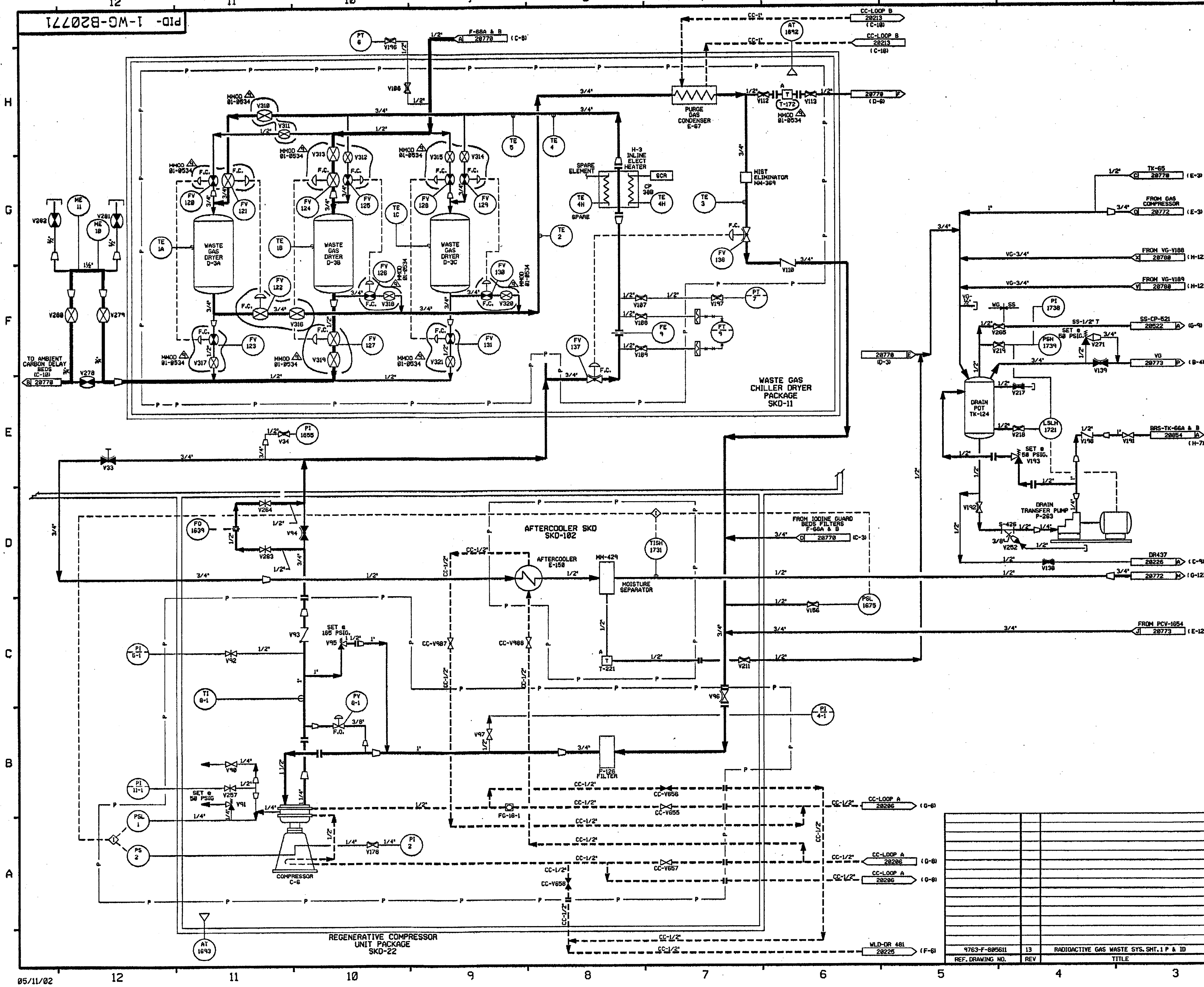
9763-F-805611 | 13 | RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID
REF. DRAWING NO. | REV | TITLE

FPL ENERGY Seabrook Station

WASTE GAS SYSTEM DETAIL

PID- 1-WG-B20770

01/21/03



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, 20772 AND 20773.
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 NNS, UNLESS NOTED OTHERWISE.
4. △ -INDICATES REVISION LEVEL.
5. DELETED

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
9	5/17/02	JM	—	[illegible]	—	[illegible]	INCORP. MMOD 01-0534 DCN 00
8	4/26/99	RWS	—	BCS	DWS	GRM	INCORP. DCR 95-0009 DCN 00 & 01
7	9/28/98	MPW	—	BCS	DWS	SPF	INCORP MMOD 98-605 DCN 00
6	10/26/92	MRB	—	DWS	BCL	DJM	INCORP. DCR 88-82 CA0
5	11/26/90	MRB	RMC	JM	MPW	BCL	INCORP. MMOD 90-601, CA00
4	12/20/89	MRB	RMC	PAL	APL	ES	INCORP. DCR 87-268 CA 8, MINOR CHANGES
3	9/20/88	GPM	RMC	APL	BCL	RRC	REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES CONT ARROW DIRECTION, NOTE 3 DELETED: FLOW ARROWS
2	11/26/86	MPW	TAK	WRO	BCL	RRC	INCORP ECA 05/110425A, ADDED CAP PER ERECTION ISO & CONT REF LOCATIONS, REVISED PIPING ON SKD-22 PER F.P.51500 DELETED NOTE 5.
1	6/27/86	WES	WES	BCL	JMS	RRC	REMOVED CHANGE ITEMS PER LATEST UE&C REV & ECA'S 99/115137A & 19/115349A INCORP ECA'S 99/115388A 99/116548C AND GEN REV
0	2/21/86	OPO	MRB	JDM	MJY	WFO	INCORP. ECA 05/110425 ISSUED FOR OPERATIONS

North Atlantic Energy Service Corporation

SEABROOK STATION

WASTE GAS SYSTEM
DETAIL
REGENERATIVE LOOP

PID- 1-WG-B20771

PID- 1-WG-B20772

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

RECORDS MANAGEMENT DEPT
CONTROL NUMBER _____

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 28768, 28778, 28771 & 28773.
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. △-INDICATES REVISION LEVEL.
6. DELETED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
15	10-14-06	BCS	JM	RAB	PARTIAL INCORP MSE 85-217 REV 00
14	10/20/03	BCS	ALP	RRB	PARTIAL INCORP MSE 81-286 REV. 00
13	10/16/03	MPW	BCS	RRB	INCORP MSE 83-225 REV. 01
12	5/22/03	BCS	JM	JC	PARTIAL INCORP DCR 02-881 DCN-00
11	10/31/01	BCS	MPW	DJM	INCORP MSE 81-0896 REV. 0
10	11/14/00	MPW	BCS	SPF	INCORP MMOD 99-8695 DCN 00
9	4/27/99	RWS	BCS	HWH	INCORP MMOD 98-9564 DCN 00
8	4/22/99	RWS	BCS	SGF	INCORP DCR 98-0846 DCN 00
7	6/02/98	DRL	BCS	VHS	INCORP MMOD 97-521 DCN 00
6	12/9/94	DWS	BCL	MHD	INCORP MMOD 938545 CA*0
5	10/26/98	MRB	JM	BCL	INCORP. MMOD 98-681 CA00
4	09/28/98	GPM	APL	RRC	REVISED: NOTE 3, VALVE SYMBOL'S FOR VG-V88 & V120 PER FP 93074 & 91411. EQUIPMENT CONT REFERENCE FROM E-150 TO C-6. ADDED: FC SYMBOL FOR VALVE FV 138 PER NHT-5858933.
3	11/20/96	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	9/2/96	JDM	MAP	RRC	INCORP ECA 99/117730A
1	5/28/96	JDM	DWS	RRC	APPROVED CHANGE ITEM NO. 1 PER LATEST REV TO REF. DWG. INCORP. ECA 96/082653A/0/115491A
0	2/21/96	GPD	JDM	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-885611	13	RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID
9763-F-885612	13	RADIOACTIVE WASTE GAS SYS. SHT. 2 P & ID

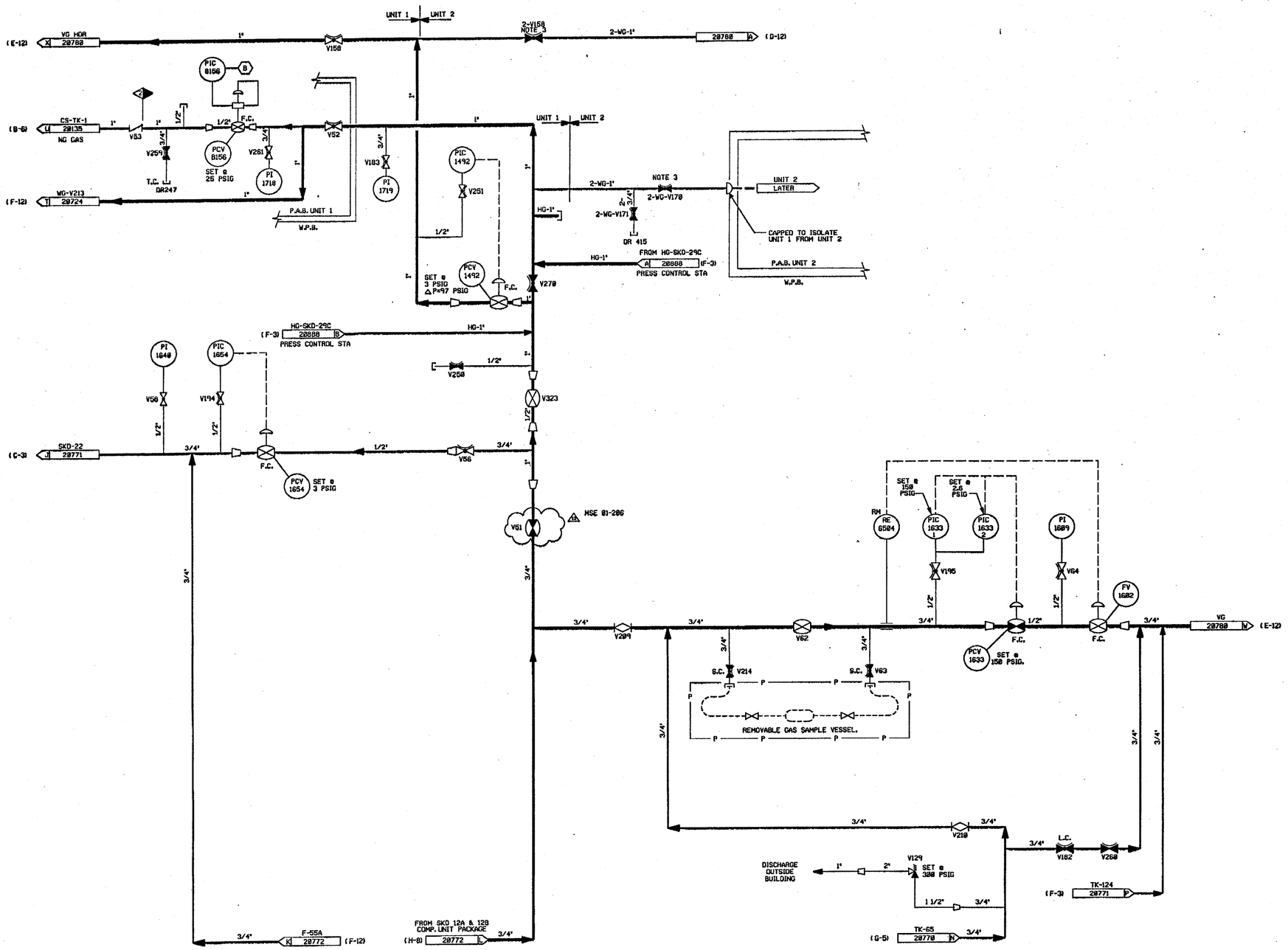
FPL ENERGY Seabrook Station

WASTE GAS SYSTEM DETAIL

PID- 1-WG-B20772

10/01/06

PID- 1-WG-B20773



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, & 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 NNS UNLESS OTHERWISE NOTED.
5. △-INDICATES REVISION LEVEL.
6. DELETED
7. INSTRUMENT REFERENCES:
   (5) FROM CS-PT-115 ON P&ID CS-28725

PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	10/13/03	BCS	MCW	CJB	PARTIAL INCORP MSE 81-286 REV.8
12	5/9/03	BCS	JM	JC	PARTIAL INCORP DCR 02-001, DCM-20
11	5/17/02	JM	MPW	ICW	INCORP MSE 01-0016 REV 6
10	3/18/98	BCL	MPW	MRJ	INCORP MMOD 938535 CA*8
9	12/5/94	DWS	BCL	MHD	INCORP MMOD 938545 CA*8
8	6/3/94	DWS	BCL	IW	INCORP MMOD 940505 CA*8 & 2
7	10/29/92	DWS	BCL	WFZ	INCORP DCR 890001 CA*8
6	10/9/91	DPM	JM	RSG	INCORP. DCR 89-67 CA8
5	10/26/90	MRB	JM	BCL	INCORP. MMOD 90-601 CA88
4	12/28/89	MRB	PAL	ES	INCORPORATED DCR 87-268 CA88
3	9/28/88	GPM	APL	RRC	REVISED: NOTE 4, V218 VALVE SYMBOL FROM NORMALLY CLOSED TO OPEN, CONT DWG NO & COORD ADDED: F.C. PER FP 51475 & 55588 FOR VALVE PCV-8156, LOOP & LOGIC NHY-5068B9 FOR VALVE PCV-1491.
2	11/28/86	MRJ	WRD	RRC	ADDED CONTINUATION FLAG COORDS, REMOVED CAP PER ECA 19/1016548. REMOVED DUPLICATED INSTR. SHOWN ON HG SYS. DELETED NOTE 5, IDENTIFIED DRAWN PER UE&C P&IDS, ADDED NUCLEAR SAFETY RELATED NOTE
1	6/17/86	WES	DWS	RRC	REMOVED CHANGE ITEMS PER ECA 19/1038338 & LATEST UE&C REV. INCORP ECA 19/107612A & 19/116184A
0	2/25/86	OPD	JDM	WFD	ISSUED FOR OPERATIONS

9763-F-805612	13
REF. DRAWING NO.	REV

RADIOACTIVE GAS WASTE SYS. SHT. 2 P & ID

TITLE

FPL ENERGY Seabrook Station

WASTE GAS SYSTEM DETAIL

PID- 1-WG-B20773

10/09/03

PID- 1-NG-B20132

20134

20136

20135

TUBE TRAILER DISCHARGE STANCHION NG-SKD-30A

NITROGEN TUBE TRAILER SUPPLY

DCR 99-003

PRESSURE CONTROL STATION SKD-30B

PCV 4612 A

PCV 4613 A

FC

NITROGEN CYLINDER BOTTLES BANK A SKD-30E

NITROGEN CYLINDER BOTTLES BANK A SKD-30F

NITROGEN CYLINDER BOTTLES BANK B SKD-30C

NITROGEN CYLINDER BOTTLES BANK B SKD-30D

PCV 4603

V13

X-36

V14

V21

V19

V17

V23

SAFETY INJECTION ACCUMULATOR 20445 SI-TK-9C

SAFETY INJECTION ACCUMULATOR 20445 SI-TK-9B

SAFETY INJECTION ACCUMULATOR 20445 SI-TK-9A

SAFETY INJECTION ACCUMULATOR 20445 SI-TK-9D

STEAM GEN. BLOWDOWN 20840 RC LOOP 2

STEAM GEN. BLOWDOWN 20840 RC LOOP 3

MAIN STEAM 20579

STEAM GEN. BLOWDOWN 20840 RC LOOP 1

MAIN STEAM 20579

STEAM GEN. BLOWDOWN 20840 RC LOOP 4

PRESSURIZER RELIEF TANK 20840 RC-TK-11

REACTOR COOLANT DRAIN TANK 20216 WLD-TK-55

MAIN STEAM 20579

MAIN STEAM 20579

PCV 4602

FV 4609

FV 4610

X-40

3/4"

RADIOACTIVE WASTE GAS 20768 WG-E-83A & B

BRS-TK-67

PRIMARY DRAIN TANK DEGASIFIER

V118

PCV 4615 BRS

PCV 7499

V119

LETDOWN DEGASIFIER CS-TK-64

BORON RECOVERY 20853 BRS-TK-66B

PCV 4618

BORON RECOVERY 20853 BRS-TK-66A

PCV 6914 RS

SURGE TANK 20779 VG-TK-10B

SPENT RESIN SLUICE TANK RS-TK-78A

SPENT RESIN SLUICE TANK RS-TK-78B

PCV 4601

CHEMICAL VOLUME CONTROL TANK CS-TK-1

OUTSIDE REACTOR CONTAINMENT

OUTSIDE MISSILE BARRIER

INSIDE REACTOR CONTAINMENT

WASTE PROCESS BUILDING

PRIMARY AUXILIARY BUILDING

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

REF. DRAWING NO.	REV	TITLE
9763-F-805037	11	CHEM. & VOLUME CONTROL SYS.
9763-F-805626	11	BORON RECOVERY SYS.
9763-F-805618	10	BORON RECOVERY SYS.
9763-F-805613	12	SPENT RESIN SLUICING SYS.
9763-F-805612	13	RADIOACTIVE GAS WASTE SYS.
9763-F-805611	10	RADIOACTIVE GAS WASTE SYS.
9763-F-805020	11	GAS SERVICE SYS.-NITROGEN NUCLEAR

REV	DATE	DSGN	DRAWN	CHKD	CDE	SES	DESCRIPTION
4	6/23/99	MPW	—	DWS	RWS	WWS	INCORP. DCR 99-003 DCN 00
3	5/8/95	BCL	——	DWS	MPW	JCM	INCORP. MMOD 94-540, CA-8
2	2/2/87	MPW	OPO	WRD	BCL	VWS	ADDED NOTE 3 & REVISED PER LATEST SYSTEM DRAWINGS.
1	2/5/86	WES	MRB	JDM	JWC	WFD	ISSUED FOR OPERATIONS REDRAWN & INCORP. DCN'S 68/00194, 65/01878 & ECA 19/111251B
0	06/01/84	PS	MRB	RSL	RBM	WFD	ISSUED FOR FIELD VERIFICATION

North Atlantic Energy Service Corporation

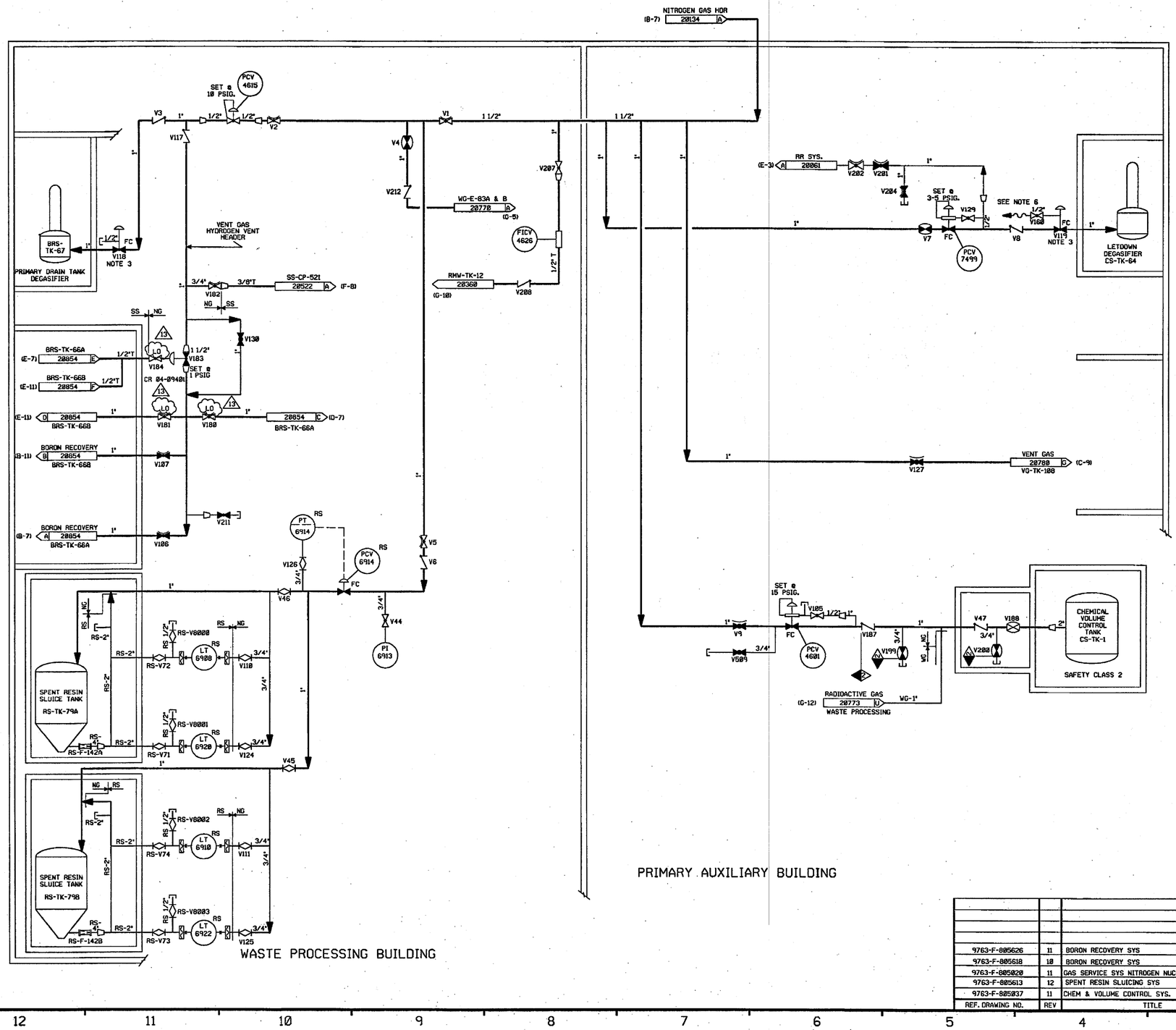
SEABROOK STATION

NITROGEN GAS OVERVIEW

PID- 1-NG-B20132

06/23/99

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. △ INDICATES REVISION LEVEL
6. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.

PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED

REF. DRAWING NO.	REV	TITLE
9763-F-805626	11	BORON RECOVERY SYS
9763-F-805618	10	BORON RECOVERY SYS
9763-F-805020	11	GAS SERVICE SYS NITROGEN NUCLEAR
9763-F-805613	12	SPENT RESIN SLUICING SYS
9763-F-805037	11	CHEM & VOLUME CONTROL SYS.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	12-7-04	BCS	JM	KPB	INCORP CR 84-09401 REV. 0
12	12/23/99	BCS	DWS	JCM	INCORP MMOD 96-531 DCN#03
11	4/28/99	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 FP 97864
9	6/3/94	BCL	DWS	JLD	INCORP DCR 93-23, CA-8, 1 & DCR 88-152 CA 8
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 ADDED SYSTEM BREAKS
4	8/6/87	GPM	MPW	RRC	ADDED NOTE 5, CONT COORD AND DELETED REF DWG.
3	10/17/87	MPW	MAP	RRC	ADDED VALVES RS-V8000-8003, NOTE 5, CAPPED CONN PER EXCTION 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 & DCN68/8019A
0	86/01/24	PJC	RSL	WFD	ISSUED FOR FIELD VERIFICATION

FPL ENERGY Seabrook Station

NITROGEN GAS DETAIL

PID- 1-NG-B20135

12/7/04

PID- 1-WS-B20733

SEAB P1X28733 .DGN#1

VG & RECIRC 20252 TO HOPPER
DCR 920006
HV 834
CAUSTIC DAY TANK 20734 SKD-111
AGITATOR A-4
SPENT RESIN DEWATERING PUMP P-353 DWG. 20735
SPENT RESIN HOPPER TK-81 Dwg. 20735
CENTRIFUGE METERING PUMP P-338 DWG. 20735
ALTERNATE SOLIDIFICATION STATION 20741
RESIN CENTRIFUGE MM-611 DWG. 20735
DCR 920006
HV 415
HV 414
TO MOBILE TRUCK BAY TRANSPORT
DWG. 20741
SPENT RESIN SLUICE TANKS 20252 RS-TK-79A & B
RESIN RECIRC. PUMP P-342 DWG. 20735
SPENT RESIN TRANSFER PUMP P-331 DWG. 20735
SPENT RESIN SLUICE TANKS 20252 RS-TK-79A & B
CONCENTRATES BOTTOMS TANK TK-200 20734
WASTE METERING PUMP P-337 DWG. 20736
COMPONENT COOLING SUPPLY 20210
COMPONENT COOLING RETURN 20210
ASPHALT TRUCK FILL
ASPHALT INLET STRAINER F-162 DWG. 20737
ASPHALT STORAGE TANK TK-281 DWG. 20737
ASPHALT TANK HEATER PANELS H-361A,B,C & D DWG. 20737
ASPHALT RECIRC. PUMP P-339 DWG. 20737
ASPHALT RECIRC. STRAINER F-163 DWG. 20737
ASPHALT METER PUMP P-340 DWG. 20737
FLOOR DRAIN TANK 20216
CONDENSATE TRANSFER SKID SKD-114 DWG. 20737
COND COLL TANK TK-203
COND TRANSFER PUMP P-343
ASPHALT HEAT TRACING DWG. 20743
ZONE-1
ZONE-2
ZONE-3
ZONE-4
ZONE-5
ZONE-6
ZONE-7
ZONE-8
EXTRUDER EV-7 DWG. 20738
EXTRUDER PIPING MANIFOLD SKD-110 DWG. 20738
BLDG. HVAC SYS. 20508
EXTRL. VENT HOOD MM-615 DWG. 20741
INSTR. AIR 20636
FULL DRUM CONVEYOR & DRUM SPINNER
DRIP PAN MECH.
SYS. INSTR.
MM-614
MM-648
MM-632
DWG. 20741
TURNTABLE MM-612 DWG. 20741
DEMIN. WTR. 20734
AUX. BOILER CONDENSATE RETURN TANK TK-202
AUX. BOILER E-159
AUX. BOILER BLOWDOWN TANK TK-204 DWG. 20737
DEMIN. WTR. 20348
AUX. BOILER CHEM. FEED TK. TK-211
AUX. BOILER CHEM. FEED PUMP P-349
AUX. BOILER FEED WATER PUMPS P-341A & B
CHEMICAL FEED SKID SKD-115 DWG. 20737
AUX. BOILER SKID SKD-112 DWG. 20737

NOTES :
1. WORK THIS DRAWING WITH DRAWINGS 20734 THRU 20743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED OTHERWISE.
3. SEE DWG. 20741 FOR MATERIAL HANDLING DETAILS.
4. SEE DWG. 20743 FOR ASPHALT STEAM TRACE SECTION DETAILS.
5. SEE DWG 20742 FOR SEAL WATER TANK DETAILS.
6. △ INDICATES REVISION LEVEL

REF. DRAWING NO.	REV	TITLE
9763-F-805646	3	WS SYS. CAUSTIC & MAT'L HANDLING PID
9763-F-805643	3	WS SYS. CRYST. COND. UTILITIES PID
9763-F-805642	4	WS SYS. CRYSTALLIZER PID
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 PID
9763-F-805631	10	WS SYS. SPENT RESIN CONC. PID
9763-F-805629	3	WS SYS. PUMP SEAL WTR. P & ID
9763-F-805613	12	SPENT RESIN SLUICING SYS. P & ID
9763-F-805610	1	WS SYS. ASPHALT STEAM TRACING P & ID

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
2	8-19-92	DWS	—	MRB	BCL	WJ3	INCORP DCR 920006 CA#8 & 1
1	2/2/87	MPW	DWS	WRD	BCL	VWS	ADDED NOTES 5 & 6, REVISED PER LATEST SYSTEM DRAWINGS.
0	6/6/86	MRB	MRB	TAK	MJY	WFD	ISSUED FOR OPERATIONS

North Atlantic Energy Service Corporation

SEABROOK STATION

SOLID WASTE SYSTEM OVERVIEW SHEET 1 OF 2

PID- 1-WS-B20733

08/19/92

P10- 1-WS-B20734

SKD-115 20733 | DM 1" | DM 1 1/2" | DEMIN WATER 20348

CAUSTIC SKID SKD-111 DWG. 20741

AGITATOR A-16 | DM 1" | DM 3/4"

CAUSTIC DAY TANK TK-199

CAUSTIC METER PUMP P-333

WASTE FEED TANK TK-198A DWG. 20736

WASTE FEED TANK TK-198B DWG. 20736

HV 879 | HV 537 | HV 880 | HV 883 | HV 188 | HV 183

REACTOR MAKE-UP WATER 20360 | RMW

WASTE FEED RECIRC PUMP P-322A DWG. 20736

WASTE FEED RECIRC PUMP P-322B DWG. 20736

HV 381

WASTE CONCENTRATES TANK TK-76 DWG. 20735

WASTE CONC TRANS PUMP P-354 DWG. 20735

CRYSTALLIZER VAPOR BODY EV-6 DWG. 20739

ENTRAINMENT SEPARATOR E-157 DWG. 20739

REFLUX PUMP TANK TK-212 DWG. 20739

CRYSTALLIZER REFLUX PUMP P-352 DWG. 20739

CRYSTALLIZER HEATER E-156 DWG. 20739

AUX STM SUPPLY 20584

AUX STM COND 20488

CRYSTALLIZER RECIRC PUMP P-334 DWG. 20739

CRYSTALLIZER DRAIN PUMP P-347 DWG. 20739

CRYSTALLIZER VENT GAS COOLER E-161

CC SUPPLY 20210 | VENT GAS SYS. 20779 | CC RETURN 20210

CRYSTALLIZER CONDENSER E-158

CRYSTALLIZER SUBCOOLER E-160

CRYSTALLIZER DISTILLATE TANK TK-210

CRYSTALLIZER DISTILLATE PUMP P-335

CRYSTALLIZER COND/SUBCOOLER SKID SKD-116 DWG. 20740

WASTE TEST TKS 20928 | FLOOR DRAIN TANK 20216 WLD SYS.

VENT GAS COOLER E-168 DWG. 20736

AGITATOR A-13

CONCENTRATES BOTTOM TANK TK-200 DWG. 20736

SPENT RESIN 20733 HOPPER TK-81

CONC BOTTOM TANK RECIRC PUMP P-336 DWG. 20736

WASTE METERING PUMP 20733 P-337

ALT SOLID STATION 20741

ALTERNATE SOLIDIFICATION STATION CONCENTRATES FEED PUMP P-346 DWG. 20736

INCOMPLETE ITEMS	
ITEM	NUMBER

NOTES :
1. WORK THIS DRAWING WITH DRAWINGS 20733 & 20735 THRU 20743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED OTHERWISE.
3. SEE DRAWING 20741 FOR MATERIAL HANDLING DETAILS.
4. SEE DRAWING 20743 FOR ASPHALT STEAM TRACE SECTION DETAILS.
5. SEE DRAWING 20742 FOR SEAL WATER TANK DETAILS.
6. △ INDICATES REVISION LEVEL

REF. DRAWING NO.	REV	TITLE
	△	
9763-F-805631	10	WS SYS SPENT RESIN CONC P&ID
9763-F-805639	4	WS SYS WASTE FD & BOTTOMS P&ID
9763-F-805640	4	WS SYS ASPHALT & STM P&ID
9763-F-805641	3	WS SYS EXTRUDER P&ID
9763-F-805642	4	WS SYS CRYSTALLIZER P&ID
9763-F-805643	3	WS SYS. CRYST COND/UTILITIES P&ID
9763-F-805646	3	WS SYS. CAUSTIC MATL HANDLING P&ID
9763-F-805629	5	WS SYS PUMP SEAL WATER P&ID
9763-F-805610	1	WS SYS ASPHALT STM TRACING P&ID
9763-F-805613	12	SPENT RESIN SLUICING SYS P&ID

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
1	3/2/87	MPW	DWS	WRD	BCL	VHS	ADDED NOTES 5 & 6. REVISED PER LATEST SYSTEM DRAWINGS.
0	6/6/86	WES	WES	TAK	MJY	WFD	ISSUED FOR OPERATIONS

PSNH PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM OVERVIEW SHEET 2 OF 2

PID- 1-WS-B20734

03/31/86

P10- 1-WS-B20735

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. 20733, 20734 & 20736 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 NNS 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 OTHERWISE NOTED.
7. HV INDICATES REMOTELY CONTROLLED VALVES.
8. SEE P&ID 20742 FOR PUMP SEAL WATER DIAGRAM.
9. △ INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	COE	SES	DESCRIPTION
9	7/26/94	DWS	—	MPW	WFD	WFZ	INCORP DCR 920886 CA*13
8	8/19/92	DWS	—	MRB	BCL	WFZ	INCORP DCR 920886 CA*8 & 9
7	2/13/92	MRB	—	BCL	MPW	IW	INCORP. DCR 86-483 CA8 AND MMOD 91-515 CA8
6	10/31/90	MRB	—	HP	APL	IW	INCORP. DCR 87-348 CA8
5	10/23/90	MRB	JH	RMC	APL	WFD	INCORP. DCR 88-58 CA82 REVISED: NOTE 8
4	7/13/90	MRB	RMC	JM	APL	IW	INCORP. MMODS 90-516 CA8 & 90-533 CA8
3	11/17/87	MPW	MRB	BCL	DWS	WFD	REVISED: NOTE 3 ADDED: CAPILLARY SYMBOLS TO PT-411 AND 3" WLD LINE. INCORP DCR 86-662.
2	10/28/86	JDM	OPD	WRD	BCL	RRC	INCORP ECA 88/1183830.
1	11/4/86	PAL	OPD	WRD	BCL	RRC	ADDED NOTE 9, FAIL POSITION ON VLVS, PER UE&C P&ID, ADDED REF DESIG TO REF FLAGS UPDATED REV OF REF BLOCK, INCORP ECA 88/882037A, UPDATE PER LATEST P&ID.
0	6/6/86	SKN	SKN	TAK	MJY	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-805613	12	SPENT RESIN SLUICING SYSTEM P & ID
9763-F-805631	18	SPENT RESIN CONCENTRATES P & I DIAGRAM

North Atlantic Energy Service Corporation

SEABROOK STATION

SOLID WASTE SYSTEM
SPENT RESIN CONCENTRATES
DETAILS

PID- 1-WS-B20735

06/07/94

PID- 1-WS-B20736

WASTE PROCESSING BUILDING

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. 28733, 28734, 28735 & 28737 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 NNS UNLESS NOTED OTHERWISE.
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 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

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
6	4/23/92	MRB	----	BCL	DAS	JBF	INCORP. DCR 86-483 CAB3 AND MMOD 91-515 CAB
5	10/31/90	MRB	FCB	RMC	APL	IW	INCORP DCR 87-348 CAB
4	2/21/90	MRB	FCB	JM	APL	IW	REVISED TO ENHANCE AND CLARIFY 3-WAY VALVE POSITION
3	2/14/90	MRB	FCB	APL	WCL	IW	INCORP MMOD 89-528 CA 8 REVISED VALVE SYMBOL PER VALVE LIST NOTE 3 PER ANSI B31.1 1977 SEC 137.1.2E
2	11/6/86	MPW	DWS	PAL	BCL	RRC	DELETED CHANGE ITEM 1 PER FP-56518. REPLACED NOTES 9 & 10. RETINCOP ECA 99/1159/98A. ADDED CONT REF LOCS. 3/4" PLUGGED VENT PER ERECTION 150, PC TO VALVES HV-185, HV-125, HV-126, HV-114, HV-115PER UE&C PAID. INCORP ECA 15/ 1128958 & FC NO 1-480868. REVISED INSTR NO PER LATEST UE&C PAID. DELETED VALVES & PIPING DUPLICATED ON DWG 28215.
1	6/23/86	WES	WES	VNK	JMCS	JNM	INCORPORATED ECA 99/1159/98A & ECA 88/882837B
0	6/6/86	WES	WES	TAK	MJY	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-805639	4	SOLID WASTE SYSTEM WASTE FEED & BOTTOMS

PSNH — PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM
WASTE FEED & BOTTOMS
DETAILS

PID- 1-WS-B20736

04/22/92

PID- 1-WS-B20737

ASPHALT STORAGE BUILDING

WASTE PROCESSING BUILDING

WASTE PROCESS BUILDING

OUTSIDE STORAGE BLDG.

ASPHALT TRUCK FILL

ASPHALT STORAGE TANK TK-201

55 GAL DRUM

HEATING PANEL NO. 2 H-361B

HEATING PANEL NO. 3 H-361C

HEATING PANEL NO. 4 H-361D

HEATING PANEL NO. 1 H-361A

ASPHALT INLET STRAINER F-162

ASPHALT METERING PUMP P-348

EXTRUDER/EVAP. EV-7 20738 (F-12)

ASPHALT RECIRC PUMP P-339

ASPHALT RESIRC. STRAINER F-163

CONDENSATE STEAM TRACE 20743 (G-3)

STEAM TRACE 20743 (F-3)

EXTRUDER/EVAPORATOR PIPING MANIFOLD 20738 SKD-110 (G-12)

ASPHALT STEAM TRACE 20743 (A-12)

CONDENSATE COLLECTION TANK TK-283

CONDENSATE TRANSFER SKID SKD-114

CONDENSATE TRANSFER PUMP P-343

ASPHALT BLDG. YARD WPB

AUX. STM. COND. 20985 (A-12)

EXTRUDER/EVAP. MANIFOLD 20738 (B-3)

DEMIN WATER 20356 (H-6)

DEMIN WATER 20741 (H-12)

AUX. BOILER CONDENSATE RETURN TANK TK-282

AUXILIARY BOILER VESSEL E-159

AUX BOILER FW PUMP P-341A

AUX BOILER FW PUMP P-341B

AUX STEAM 20573 (G-3)

CHEM FEED TANK AGITATOR A-14

AUX BOILER CHEM. FEED TANK TK-211

AUX BOILER CHEM. FEED PUMP P-349

CHEMICAL FEED SKID SKD-115

AUXILIARY BOILER SKID SKD-112

AUX BOILER BLWDN TANK TK-284

SAMPLE COOLER

FUNNEL DRAIN

CCW LOOP B 20215 (E-5)

CCW LOOP B 20215 (E-6)

WLD DR 468 20225 (F-8)

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. 20733 THRU 20736 AND 20738 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. ———— -INDICATES STEAM TRACING.
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

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
3	11/21/86	PAL	DWS	Rdl	BCL	RRC	ADDED NOTE 8. CORRECTED VALVES, REROUTED 2" LINE FROM TANK TO BLR PER ERECTION ISO'S. ADDED DWG LOC COORDS. CORRECTED PC FROM PE. DELETED REFERENCE FLAG (DM).
2	9/17/86	JDM	WES	MAP	BCL	RRC	DEFERED CHARGE ITEMS INCORP. ECA'S 99/117814A & 99/117414A
1	6/24/86	WES	WES	VNK	JMS	RRC	INCORPORATED ECA'S 99/114743A & 00/116426A. ADDED DM CONTINUATION
0	6/6/86	WES	WES	TAK	MJY	WFD	ISSUED FOR OPERATIONS AND INCORP. ECA 99/115499A AND ECA 99/113487A

9763-F-805640	4
REF. DRAWING NO.	REV
SOLID WASTE SYS. ASPHALT & STM. P&ID	
TITLE	

PSNH PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM ASPHALT & STEAM DETAIL

PID- 1-WS-B20737

3/19/86

PID- 1-WS-B20738

VENT TO OUTSIDE ATMOS.

INSTRUMENT AIR (E-18) 20642 1 1/2"

SET AT 42 PSIG

PSV 167

E/E PIPING MANIFOLD SKD-110

PI 168 V359 V358

TV 170 V314 F.C.

TV 171 V315 F.C.

PIC 166 V362

TV 172 V316 F.C.

PI 169 V360 V361

TV 173 V317 F.C.

TV 174 V318 F.C.

TV 175 V319 F.C.

PV 166 V313 F.C.

T-264 V312

SV 185

SV 186

SV 187

V321 T-265 V320

(E-12) AUX. BOILER 20737 E-159 S-465 V311 V308

(E-12) WLD DR 528 20225 3/4"

HV 284

(B-12) P-337 20735 1/2"

RS-TK-79A & B 20735 1/2"

(A-12) STEAM TRACE SECTION D

(D-12) ASPHALT METER PUMP 20737 P-340

(H-3) FEED CHUTE 20735 MM-654 (B-12)

A1 A7 A27

EXTRUDER/EVAPORATOR EV-7

EXTRUDER GEAR BOX

LUBE OIL PUMP P-356

EXTRUDER MOTOR

EXTRUDER DRIVE COOLING FAN FN-169

PI 177 PSL 177

ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5 ZONE 6 ZONE 7 ZONE 8

SPARE TE 192

TE 178 TE 171 TE 172 TE 173 TE 174 -1 TE 174 -2

SPARE TE 193 TE 175

LE 188 LE 189 LE 190

STEAM DOME

V322 V323 V324

V326 N.O. V327 N.O. V328 N.O.

TI 199

V170 V171 V172 V173

WLD DR 528 (D-12) B 20225 3/4"

V329 V330 V331 V332 V333 V334 V335 V336

T-266 T-267 T-268 T-269 T-270 T-271 T-272 T-273

V338 V339 V340 V341 V342 V343 V344 V345

V310 V337

CC WS V850 NC V351 V851 NC

SET AT 126 PSIG PSV 197 V349

(B-6) CCW 20215 SUPPLY CC-2 1/2" 2 1/2"

SET AT 235 PSIG PSV 202 TV 194 -2 V350

SET AT 128 PSIG PSV 196 V348

SET AT 235 PSIG PSV 203 TV 195 -2 F.C. V346

(B-4) CCW 20215 RETURN CC-2 1/2" 2 1/2"

WLD DR 528 A 20225 (D-11)

V347

E/E PIPING MANIFOLD SKD-110

MATERIAL HANDLING SYSTEM DWG. B28741

STEAM DOME BOILOUT SKD-113

DEMIN WATER G 20351 (H-18) DM-1"

STEAM DOME BOILOUT TANK

LG 191 V8000 V8001

V357 DM WS

V354 V355 V356

SEAL WATER TANKS 20742 H (D-12)

WLD DR 528 20225 C (E-11)

CONDENSATE RETURN SECTION B (C-12) V783 T-325 V784

CONDENSATE RETURN SECTION A (C-12) V793 T-323 V794

CONDENSATE RETURN SECTION C (C-12) V795 T-324 V796

CONDENSATE RETURN B 20743 STEAM HEADER (A-12)

SEE DWG 20743 FOR STEAM TRACE SUPPLY

AUX. BOILER COND. TK 20737 F TK-202 (E-3)

WLD DR 528 20225 F (E-11)

V404 V209

WASTE PROCESSING BUILDING

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. 20733 THRU 20737 AND 20739 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. 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. △ INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
3	11/6/86	PAL	OPO	WRD	BCL	RRC	REMOVED VLVS. V353, V352, V389, V1221 & STRAINER S-468 TO AVOID DUPLICATION. CHANGED PIPING SIZE PER LE&C P&ID. ADDED REF. LOC. TO REF. FLAGS. V8000, V8001 TO ANGLE VALVES & P&ID REF. DWG. RELOCATED LINE FROM V326, V348 & 1/2" LINE FROM TRAP 265 & COMPLETED PIPING ON SKID-113 TO REFLECT AS-BUILT CONDITION.
2	9/12/86	MAP	DWS	JDM	BCL	RRC	DELETED CHANGE ITEMS 1 & 2, INCORP ECA 99/117183A
1	6/23/86	WES	WES	VNK	JMCS	RRC	INLINE FLANGES ADDED
0	6/6/86	WES	WES	TAK	MJY	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
7838-F-570084	2	WASTE SOLID SYSTEM INSTR. PIPING & LOC.
9763-F-805641	3	SOLID WASTE SYSTEM EXTRUDER P&ID

PSNH PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM EXTRUDER DETAIL

PID- 1-WS-B20738

3/13/86

PID- 1-WS-B20739

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. 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 V602 THRU 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. △ INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
4	9/16/03	JM	BES	JAM	INCORP MSE 03-0198 REV 00
3	11/4/86	MPW	PAL	RRC	ADDED CONT. REF. LOCATIONS. NOTE 10. LINE SIZE TO HV-528 & FC-TO VALVES HV-531 & HV-532. DELETED PIPING AND VALVES DUPLICATED ON DWG. 20573.
2	9/2/86	JDM	MAP	RRC	INCORP ECA 99/117804A
1	8/24/86	WES	PAL	RRC	ADDED REDUCERS.
0	6/6/86	WES	TAK	WFD	ISSUED FOR OPERATIONS AND INCORP. ECA 45/113738A

9763-F-885642	4	SOLID WASTE SYSTEM CRYSTALLIZER P&ID
REF. DRAWING NO.	REV	TITLE

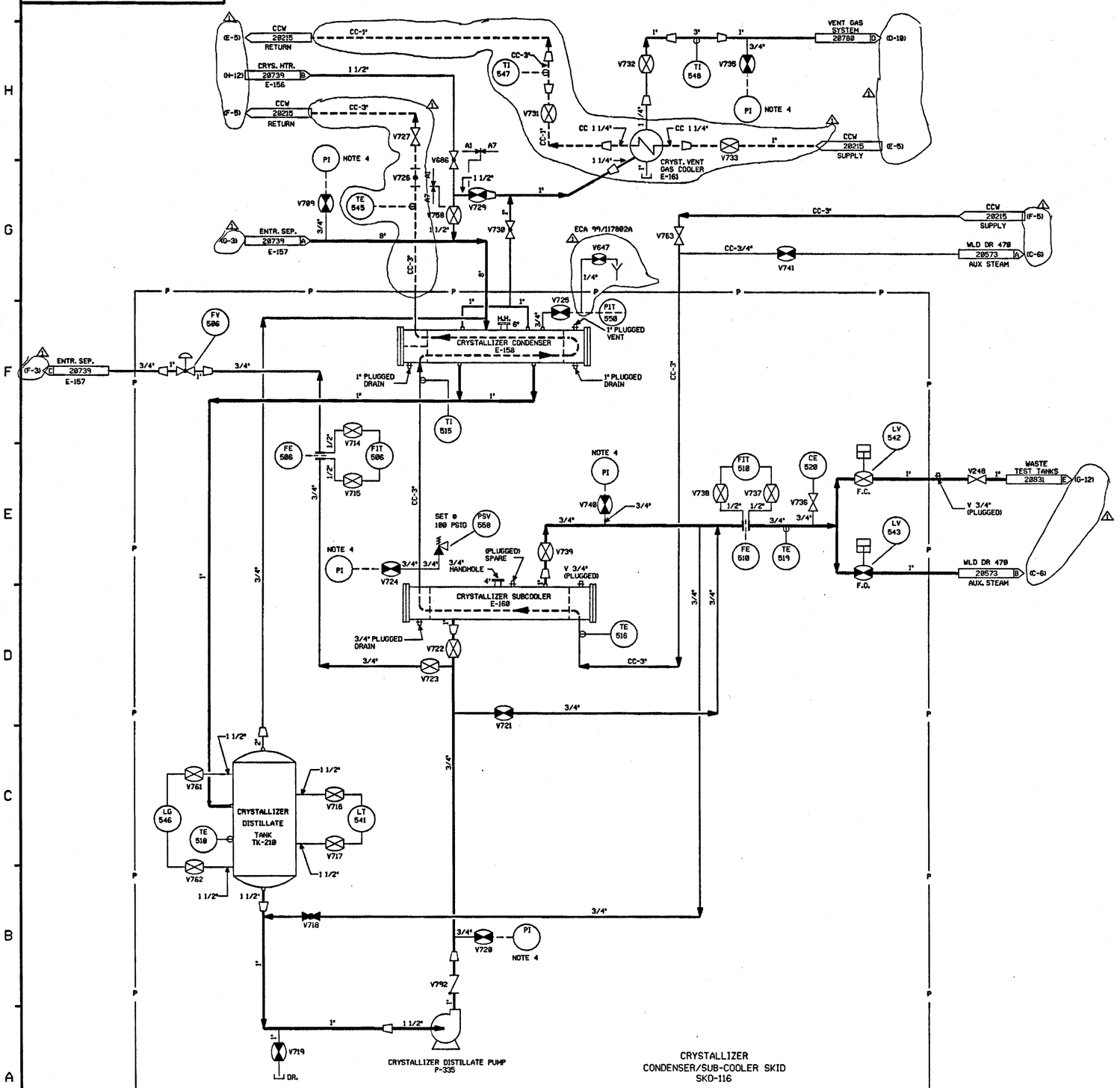
FPL ENERGY Seabrook Station

SOLID WASTE SYSTEM
CRYSTALLIZER
DETAIL

PID- 1-WS-B20739

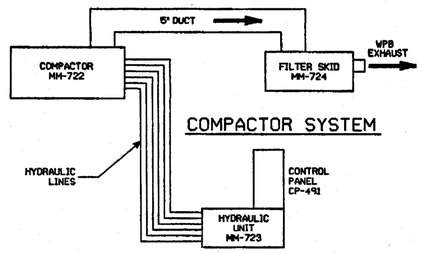
09/15/03

PID- 1-WS-B20740



WASTE PROCESS BUILDING

CRYSTALLIZER CONDENSER/SUB-COOLER SKID SKD-116



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. 20733 THRU 20739 & 20741 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. 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.

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

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
1	11/18/86	MPW	DPD	WRP	[illegible]	MJY	WFD	INCORP. ECA 99/117882A. ADDED NOTE 8 & CONT. REF. LOCATIONS.
0	6/6/86	SKN	SKN	TAK	MJY	WFD	ISSUED FOR OPERATIONS

PSNH — PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM
CRYSTALLIZER CONDENSER UTILITIES DETAIL

PID- 1-WS-B20740

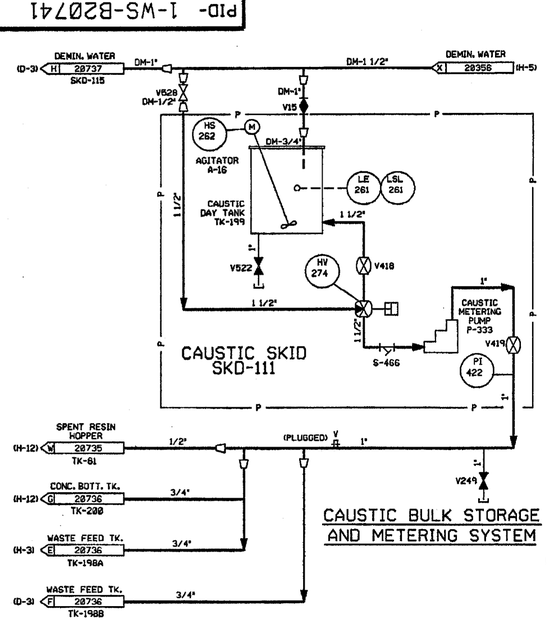
03/26/86

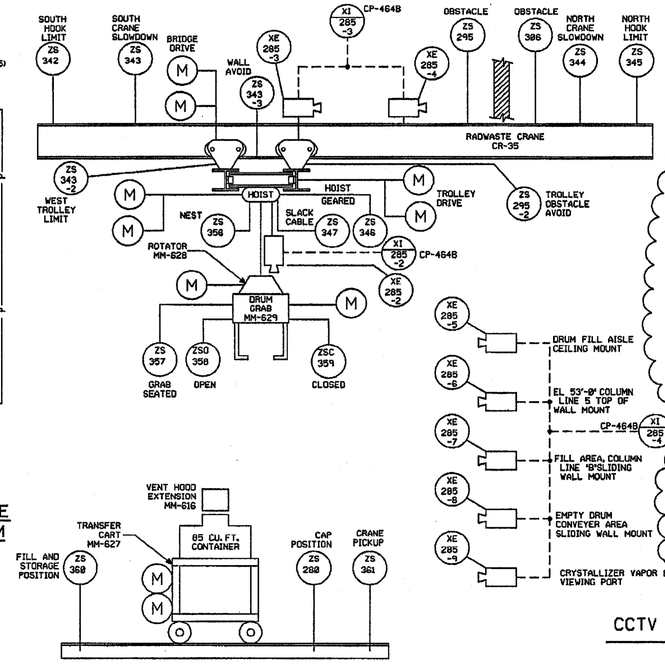
PID- 1-WS-B20741

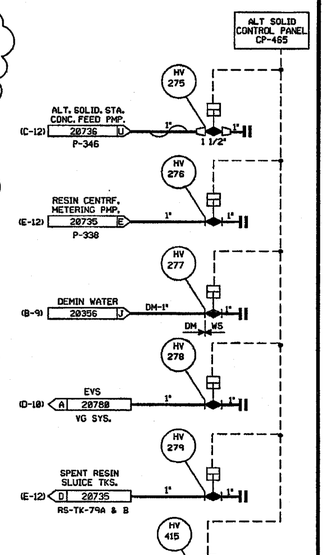
SEAB P10287A1 .DGN

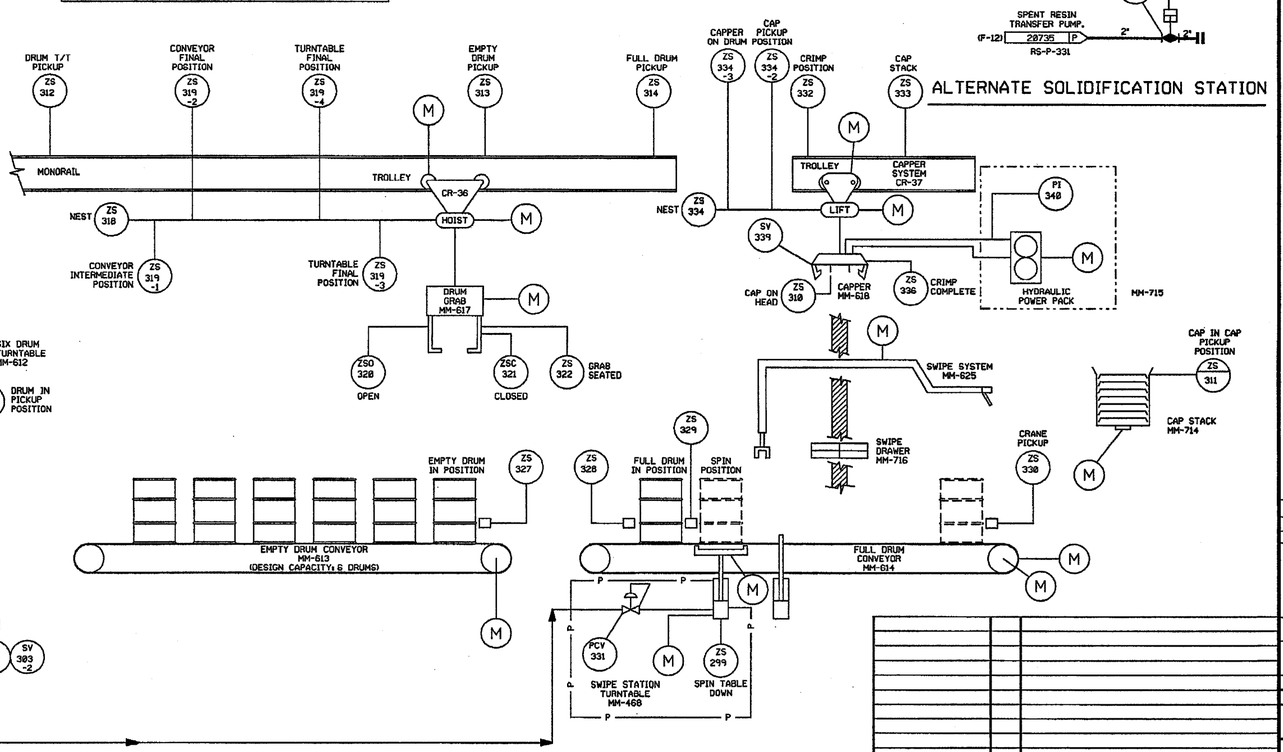
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

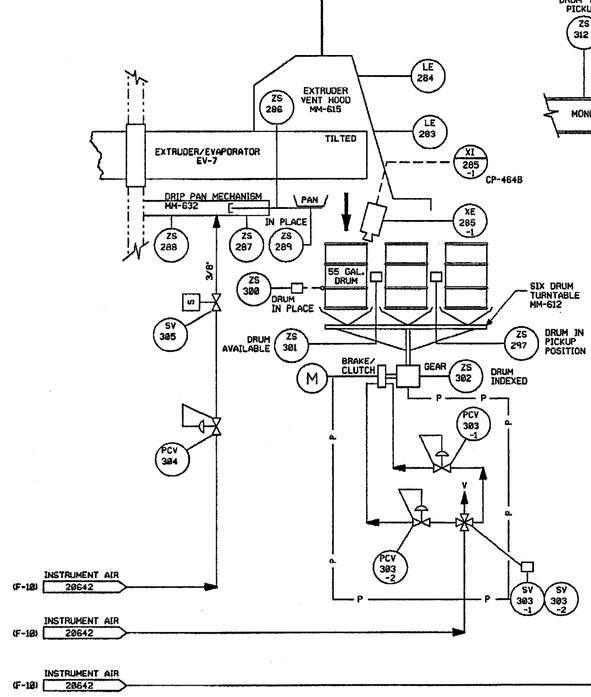
ECA 99/117882A











NOTES:

1. WORK THIS DWG. WITH DWGS. 28733 THRU 28748, 28742 & 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 18.....
5. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
6. HV INDICATES REMOTELY CONTROLLED VALVES.
7. ▭ - INDICATES CC TV CAMERA.
8. △ INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
6	11/29/01	BCS	—	MRB	—	WPZ	INCORP MSE 01-0195 REV. 00, 01
5	8-15-92	DWS	—	MRB	BCL	WPZ	INCORP DCR 920006 CA*0
4	12/24/98	MPW	TAK	BCL	MPW	RRC	INCORP DCR 598
3	11/21/86	MPW	DPO	WRD	BCL	RRC	DELETED FILL CONN. ON TANK TK-199 PIPING TO BE INSTALLED LATER. ADDED ECA TO INCORP. ITEMS LIST, NOTE 8, REF. CONT. LOCS. REVISED LOCATION OF PI-422 PER FP-86477. ADDED SV-305 PER ASBUILT COND., ADDED SV-339 PER LATEST UE&C P&ID.
2	9/2/86	JDM	DWS	MAP	BCL	RRC	INCORP ECA 99/117884A & 98/118812A
1	6/23/86	WES	WES	VNK	JMCS	RRC	CHANGE ITEMS ◇1 & ◇2 RESOLVED PER LATEST UE&C P&ID
0	5/5/86	WES	WES	TAK			ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-805646	3	WS SYS CAUSTIC & MAT'L HANDLING P&ID

North Atlantic Energy Service Corporation

SEABROOK STATION

SOLID WASTE SYSTEM
CAUSTIC & MATERIAL HANDLING DETAIL

PID- 1-WS-B20741

11/29/01

PID- 1-WS-B20742

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 20733 THRU 20741 & 20743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS, UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
4. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 18____.
5. △ INDICATES REVISION LEVEL

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
3	4/23/92	MRB	—	DLS	MW		DCR 86-483 CA03 REVISED-NOTE 3 PER NMY ENG DESIGN STANDARD 31780 SECT 3.0
2	01/28/86	MPV	HIW	WRD	BCL	RRC	ADDED NOTE 5, CONT REF LOCATIONS, ADDED REDUCERS PER ERECTIONS ISO'S REVISED VALVE NO FROM V512 TO V514 PER ERECTION ISO.
1	05/23/86	MRB	MRB	VNK	JMcS	RRC	INCORPATED ECA 99/116162A, UPDATED PER U.E.&C. P&I.D.
0	05/05/86	MRB	MRB	TAK	MJY	WFD	ISSUED FOR OPERATIONS

PSNH — PUBLIC SERVICE OF NEW HAMPSHIRE

SEABROOK STATION

SOLID WASTE SYSTEM PUMP SEAL WATER DETAIL

PID- 1-WS-B20742

REF. DRAWING NO.	REV	TITLE
9763-F-805643	3	WS SYS. CRYST./COND. UTIL. P&ID
9763-F-805629	3	WS SYS. PUMP SEAL WATER P&ID

04/22/92

PID- 1-RS-B20252

PRIMARY AUXILARY BLDG. UNIT 1.

WASTE PROCESSING BUILDING

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 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 NNS.
3. THE RS IS A ONE DRAWING SYSTEM AND AN OVERVIEW IS NOT REQUIRED.
4. VALVE V63 FAILS WITH FLOW TO AE 9109.
5. VALVE V36 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 SEE DRAWING 28303.
8. DELETED
9. △ INDICATES REVISION LEVEL
10. THIS VALVE IS THROTTLED.

REV	DATE	DSGN	CHKD	SCS	DESCRIPTION
13	1-13-04	BCS	JM	ZEB	RE-INCORP DCR 98-18 CA-8 ICR 03-004389
12	7/28/97	MPV	SCS	VWS	INCORP MMOD 96-058 DCN 01
11	12/12/94	DMS	BCL	VWS	INCORP. DCR 96-32 CAP4 AND MMOD 92-245 CA-8
10	8/17/93	MRB	BCL	VWS	INCORP. DCR 96-32 CA03
9	8/24/92	BCL	MRB	JEV	RE-INCORP. DCR 98-18 CA8
8	8/19/92	DMS	MRB	WFZ	INCORP. DCR 929886 CAP1
7	8/18/92	MRB	MPV	JEV	INCORP. DCR 98-18 CA8
6	1/13/92	RHC	MRB	JEV	INCORP. DCR 90-241 CA03. REV 0 NOTE 2 FOR END DSGN STD 37168.
5	8/14/87	MPV	BCL	RRC	INCORP DCR 86-216 CA02. DELETED: SPEC BREAKS, REFERENCE PIPING SHOWN IN PHANTOM.
4	11/4/86	JDM	MRD	RRC	REVISED NOTES, CORRECTED LOCATION OF DRAIN LINE PER SCA 7-1106-CCPA, ADDED COMP. DWG. COORDINATES.
3	9/12/86	MPV	MAP	RRC	ADDED VALVE V8888 TO AE-9109 REVISED CONTINUATIONS
2	8/24/86	TAK	WFS	RRC	REVISED CONTINUATIONS, CORRECTED REF. DWG. REV. & UPDATED PER LATEST USAC P&ID
1	05/05/86	DBF	TAK	WFD	REVISED CONTINUATIONS
0	01/22/86	TAK	DMS	WFD	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-885817	12	SPENT FUEL POOL COOLING & CLEAN-UP
9763-F-885813	12	SPENT RESIN SLUICING SYS. P & ID.

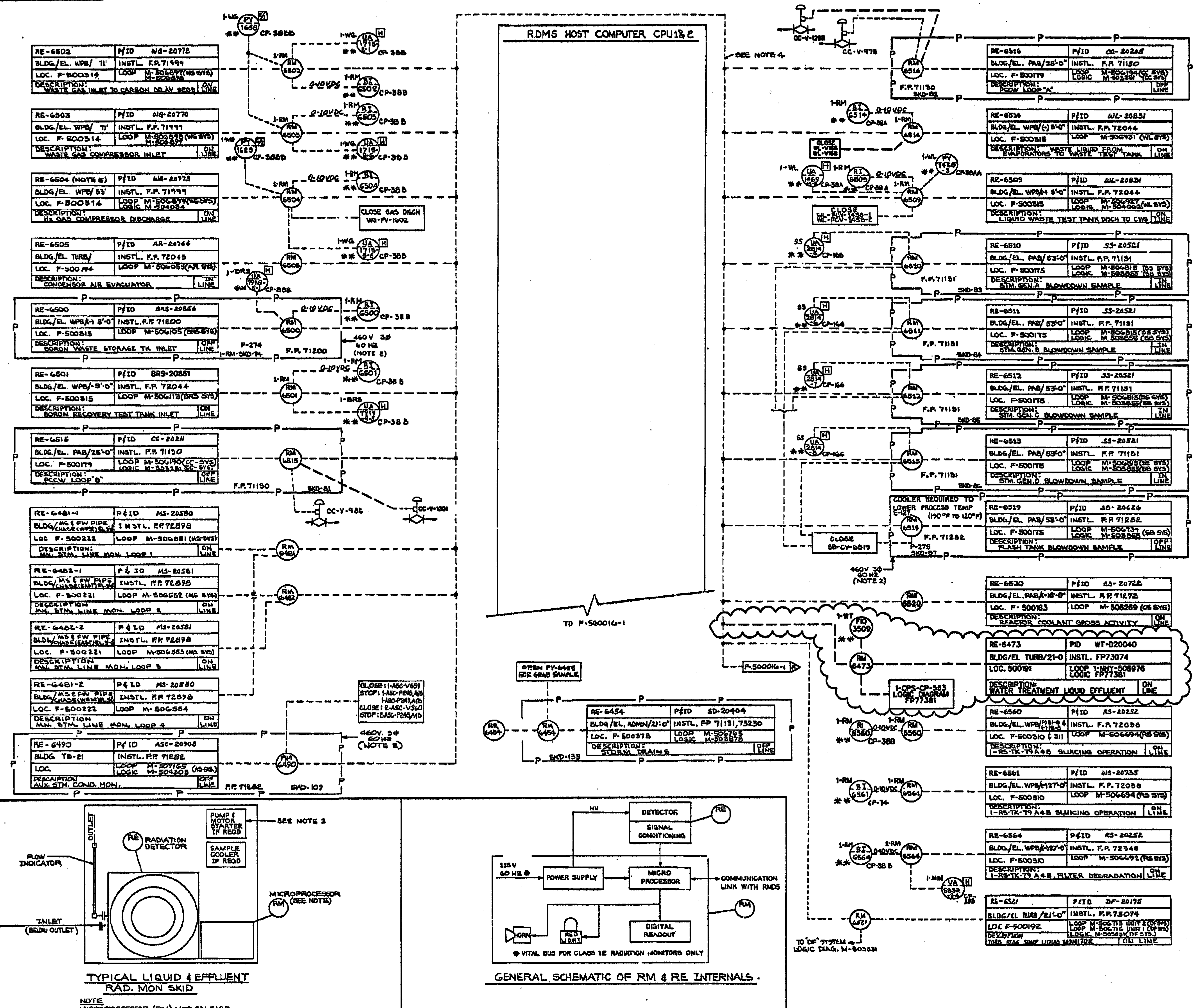
FPL ENERGY Seabrook Station

SPENT RESIN SLUICING SYSTEM

PID- 1-RS-B20252

1/12/04

1-NHY-500015



NOTES

1. ALL INSTRUMENTS ARE FOR UNITS 1 & 2 UNLESS OTHERWISE NOTED. SYSTEM PREFIX IS "RM" UNLESS OTHERWISE SPECIFIED.
2. TRANSFORMER 460/115V TO BE SUPPLIED BY RDMS VENDOR
3. FOR DETECTOR BACKGROUND LEVELS REFER TO SPEC 172-1S, TABLE 5.2-1
4. DATA LOOP CONSISTS OF DUAL REDUNDANT TRANSMISSION LOOPS WITH ISOLATED OUTPUT FROM THE 1E RM UNITS (SEE F.P. 71800)
5. DESIGNED EXPLOSION PROOF
6. ALL FIELD TERMINATIONS FOR RM UNIT ARE MADE IN ADJACENT JUNCTION BOX SUPPLIED BY VENDOR
7. **NOT SUPPLIED BY RDMS VENDOR

REFERENCE DRAWINGS

DBD-RM-1
SPEC 9763-006-172-1
510000 (SIS)
500006

ISSUED-FOR-CONSTRUCTION

REV	DATE	DRWN	CHKD	CE	LDE	DESCRIPTION
12	5/17/05	MRB	TLM	STB	[illegible]	INCORP DCR 02-015, DCN-6
11	9/30/03	SAC	TLM	RCP	RWM	INCORP. DCR 91-032, DCN04; DCR 92-016, DCN08; DCR 99-018, DCN09; DCR 00-020, DCN09; REF CR 03-00510

FPL Energy Seabrook Station

PROCESS & EFFLUENT RADIATION MONITOR SYSTEM
INSTRUMENTATION ENGINEERING DIAGRAM

1-NHY-500015

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