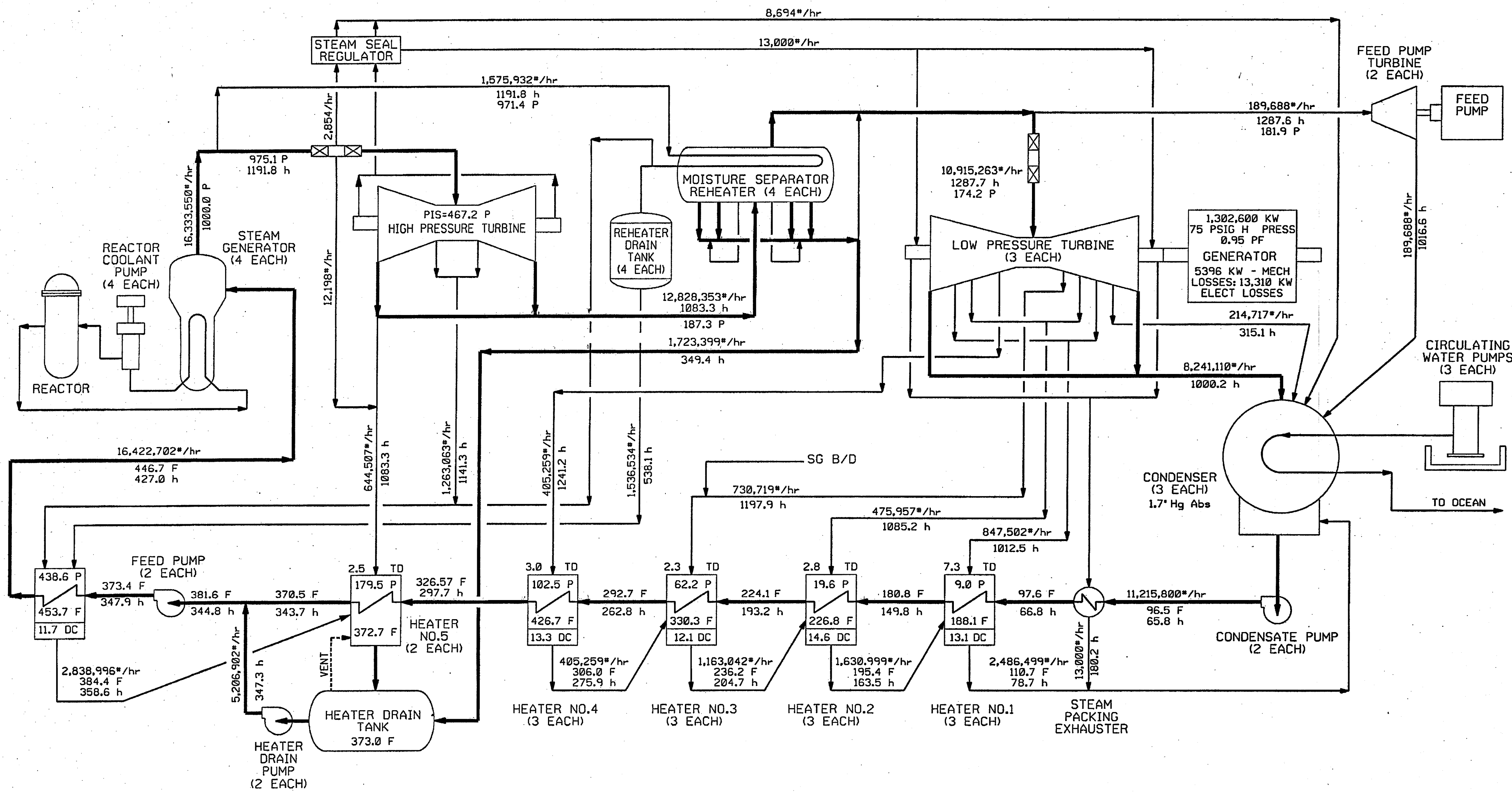


10-24-06



4	10/25/06	KCS	JME	MBL	IAW	REDRAWN FOR MUR	DEC 04-015 DCN 00
3	5/16/05	KCS	JME	MBL	IAW	REDRAWN FOR SPU	DEC 02-003 DCN 00
REV	DATE	DRWN	CHKD	CDE	SES	DESCRIPTION	

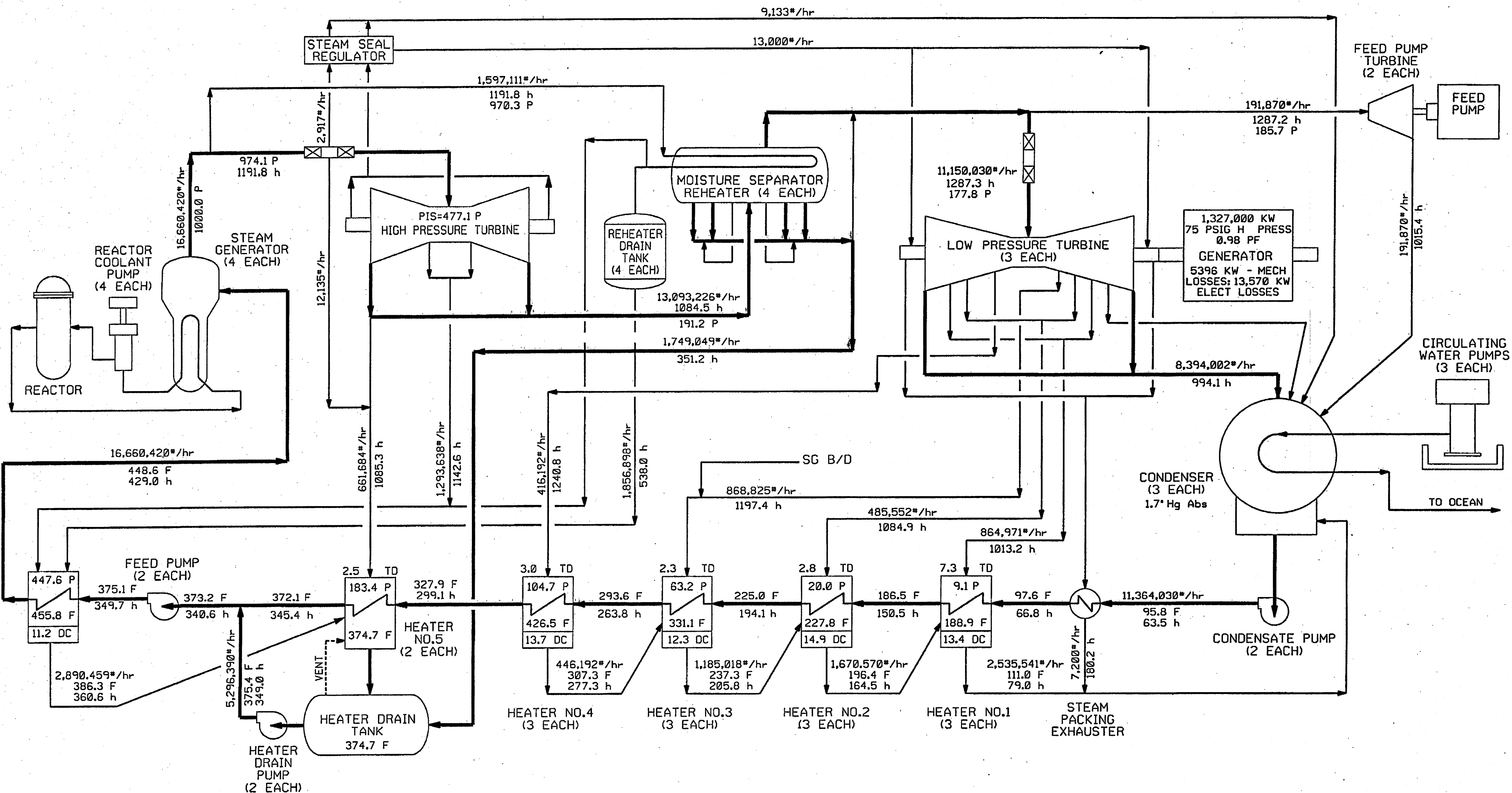


FPL ENERGY SEABROOK STATION

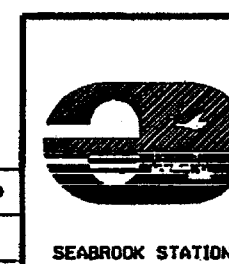
HEAT BALANCE
100 % LOAD

1-NHY-202116

\\UPRATE\HEATBALANCE.DGN



2	10/15/06	KCS	JME	MDL	IAW	REDRAWN FOR MUR DEC 05-013 DCM
1	5/16/05	KCS	JME	MDL	IAW	REDRAWN FOR SPU
REV	DATE	DRWN	CHKD	CDE	SES	DESCRIPTION



FPL ENERGY SEABROOK STATION

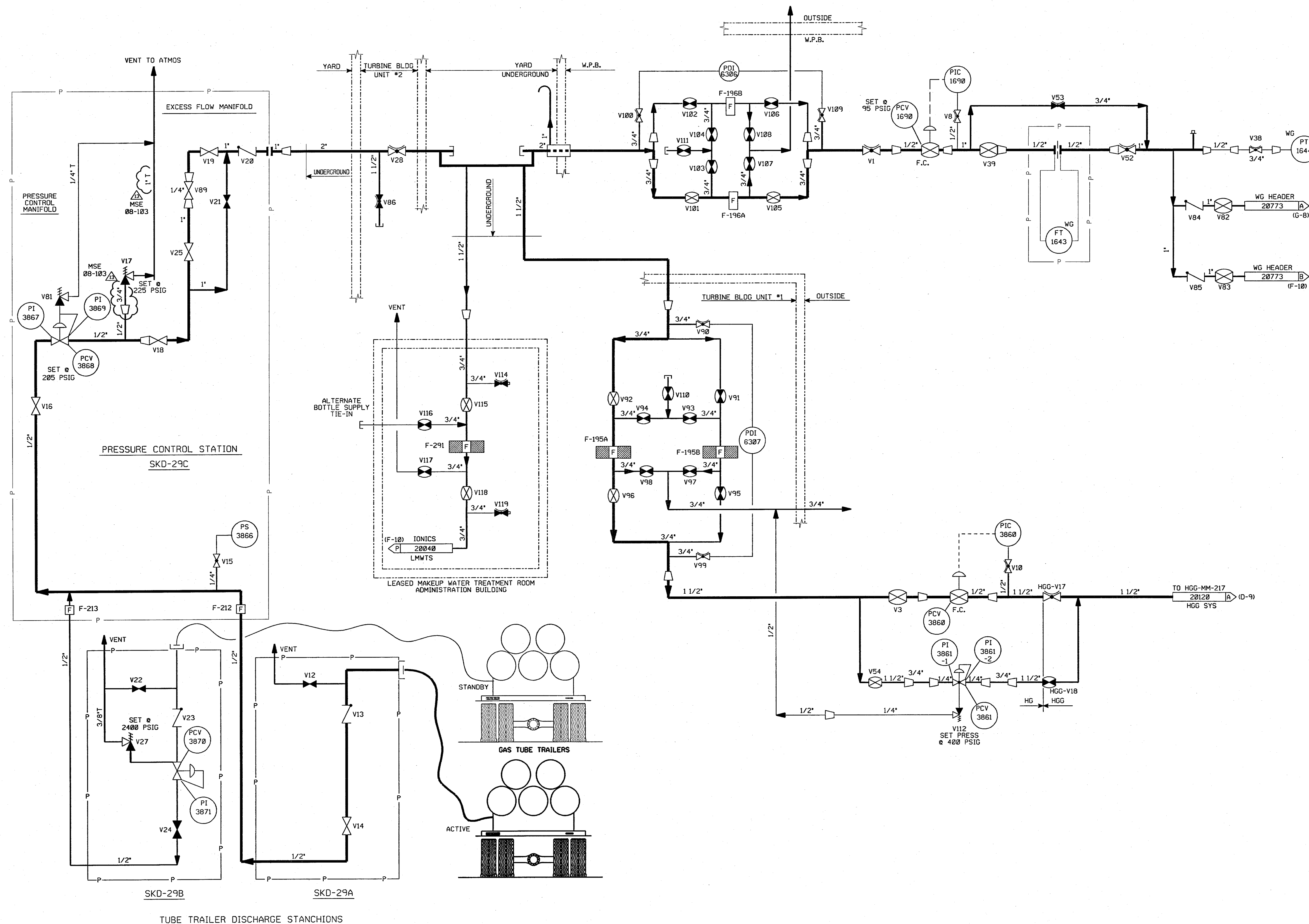
**HEAT BALANCE
VALVES WIDE OPEN**

I-NHY-202115

UPRATE\HEATBALANCE.DGN

88802B-9H-PID-1-HC-B20888

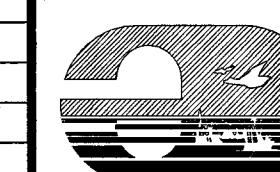
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. THE HG SYSTEM IS A ONE (1) DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX HG UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. DELETED

13	4/27/08	JM	BCS	RRB	INCORP MSE 08-103 REV-00
12	4/17/08	JM	BCS	RRB	PARTIAL INCORP MSE 01-206 REV-00
11	4/27/99	RWS	BCS	VWS	INCORP MMD 98-0564 DCN 00
10	6/02/98	DRL	BCS	VWS	INCORP MMD 97-521 DCN 00
9	6/12/97	MPW	DWS	RRC	INCORP MMD 96-531 DCN 00
8	8/3/94	DWS	BCL	WFZ	INCORP DCR 930031 CA#0, 4 & 7
7	10/9/91	MRB	DSB	RWM	INCORP DCR 86-227 CA#0 AND DCR 89-67 CA#0
6	2/15/91	DWS	MRB	RSG	INCORP DCR 86-227 CA#0 EXCEPT CA#6
5	12/20/89	MRB	PAL	IW	INCORP DCR 87-268 CA#0, ADDED SYS PREFIX PER NOTE 2.
4	2/2/89	MRB	GPM	GM	REVISED: V69 THRU V80 SYMBOL PER ECA 08/113687C, V21 SYMBOL PER UE & C P & ID 9763-F-005938, NOTE 3.
3	12/11/86	MAP	MPW	RRC	ADDED CONT REF LOCATIONS, DELETED NOTE 5, CHANGE ITEM PER ASBUILT CONDITION
2	9/26/86	JDM	MPW	RRC	RESOLVED CHANGE ITEM NO 2 PER ECA 19/118426A.
1	6/19/86	WC	JDM	RRC	INC ECA 08/113687C, DR 34/418A, ADDED CHG. ITEM 2 & 3 RESOLVED CHG. ITEM 1 BY ECA 08/113687C
0	02/06/86	DEE	JDM	EWD	ISSUED FOR OPERATIONS & INCORP. ECA'S 19/107612A & 99/109375A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

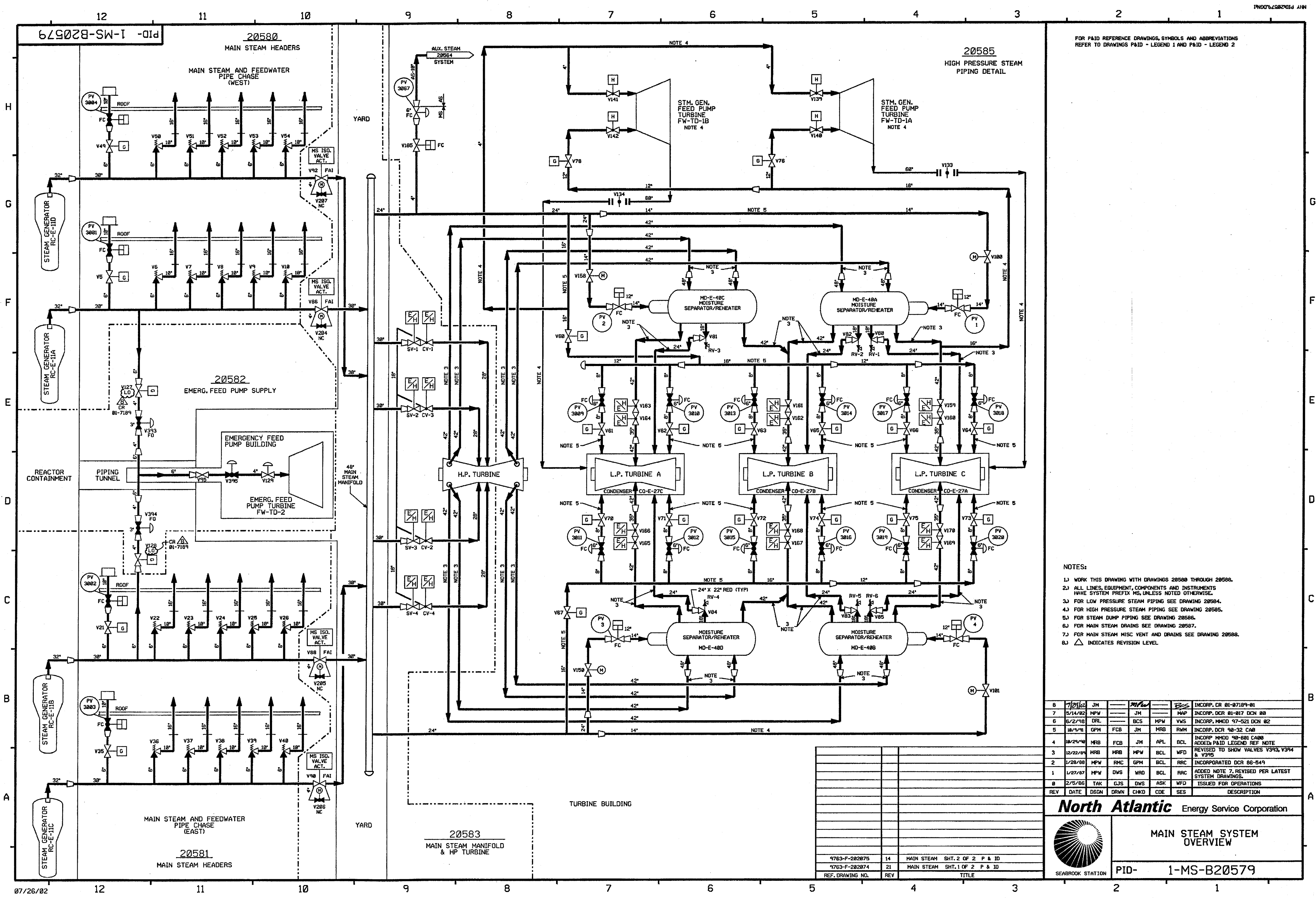
FPL ENERGY Seabrook Station

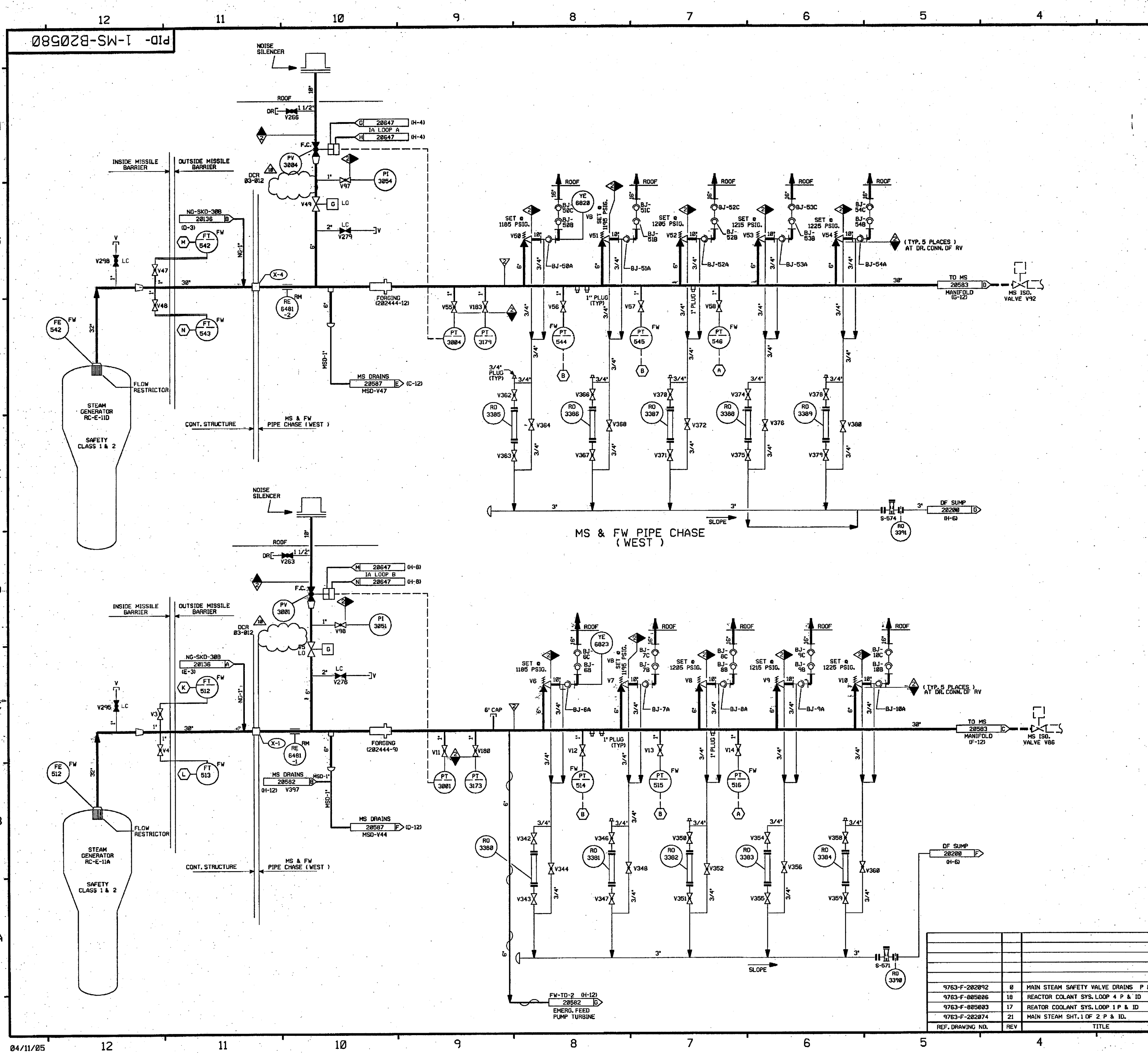


HYDROGEN GAS SYSTEM

PID- 1-HG-B20888

REF. DRAWING NO.	REV	TITLE
9763-F-615024	8	ADMIN. & SERV. BLDG. FIRST FLR. SHT 3
9763-F-615031	5	ADMIN. & SERV. BLDG. PLUMBING-GAS
FP-56242	2	HYD. PRESS. RED. & FLOW CONTROL STATION
9763-F-805612	12	RADIOACTIVE GAS WASTE SYS. P&ID.
9763-F-805038	4	GAS SERVICE SYS. HYDROGEN P&ID.



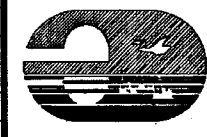


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20579 & 20581 THRU 20587.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
 3. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-80511, UNLESS NOTED OTHERWISE.
 4. INSTRUMENT REFERENCES:
 - (A) STEAM PRESSURE PROTECTION SYSTEM
 - (B) STEAM PRESSURE MISMATCH SYSTEM
 - (X) TO 1-FW-LT-501, LT-551 & LT-4318 ON DWG. 1-FW-20686
 - (L) TO 1-FW-LT-519 ON DWG. 1-FW-20686
 - (M) TO 1-FW-LT-4318, LT-504 & LT-547 ON DWG. 1-FW-20686
 - (N) TO 1-FW-LT-549 ON DWG. 1-FW-20686
 5. Δ INDICATES REVISION LEVEL

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

10	4-12-95	BOS	JM	EPB	INCORP DCR 83-012 DCN-88
9	4/27/99	RWS	DWS	HWM	INCORP MMOD 98 0521 DCN 88
8	11/3/95	BCL	WCL	GPM	INCORP DCR 95-32 CA-8, DCR 95-29 CA-8
7	11/24/94	DWS	BCL	MHO	INCORP MMOD 930545 CA-8
6	4/28/92	MRB	DWS	RRB	INCORP MMOD 91-515 CA-8
5	10/9/91	GPM	MRB	RRB	INCORP DCR 90-32 CA-8
4	2/2/90	MRB	WCL	IV	REVISED NOTE 3 DELETED NMS-1 SYMBOL, ASME CLASS BREAK PER NOTE 3
3	4/28/88	MPW	DWS	RRB	INCORPORATED DCR 87-176 CA-82 ADDED: BALL JOINT NUMBERS, REFERENCE DNG NOTE, NOTE 5, REF. COORD. AND LINE CONT. TO DF SUMP, DELETED LINE SPECS & CODE CLASS BREAK PER NOTE 3.
2	9/22/86	JDM	OPBCL	RRB	REVISED TO SHOW CONNECTIONS & VALVES FOR FT'S FROM OUTSIDE TO INSIDE MISSILE BARRIER, ADDED TAG NOS. FOR FORGINGS CORRELATED BALL JOINT SYMBOLS REVISED TO REFLECT CORRECT TIE-IN SEQUENCE PER PIPING DIRECTION ISO F-414011.
1	6/18/86	JDM	JMS	RRB	GENERAL REVISION PER DEEC UPDATE INCORP. ECA 85/106621a
0	2/5/86	TAK	ASK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

**FPL ENERGY**


Seabrook Station

MAIN STEAM SYSTEM
MAIN STEAM HEADERS
DETAIL

PID- 1-MS-B20580

REF. DRAWING NO.	REV	TITLE
9763-F-202092	0	MAIN STEAM SAFETY VALVE DRAINS P & ID
9763-F-805006	18	REACTOR COOLANT SYS. LOOP 4 P & ID
9763-F-805003	17	REACTOR COOLANT SYS. LOOP 1 P & ID
9763-F-202074	21	MAIN STEAM SHT. 1 OF 2 P & ID.



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20574, 20580, 20582 THRU 20587.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
 3. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWN STREAM END OF THE OUTER ISOLATION VALVE PER I-NHY-605111 UNLESS NOTED OTHERWISE.
 4. INSTRUMENT REFERENCES:
 - A STEAM PRESSURE PROTECTION SYSTEM
 - B STEAM PRESSURE MISMATCH SYSTEM
 - C TO I-FW-LT-552, LT-502 & LT-4320 ON DWG. I-FW-20686
 - D TO I-FW-LT-529 ON DWG. I-FW-20686.
 - E TO I-FW-LT-4330, LT-530 & LT-503 ON DWG. I-FW-20686.
 - F TO I-FW-LT-539, LT-4330 ON DWG. I-FW-20686
 5.  INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

11	7-31-06	BCS	IM	RRB	INCRP MM0D 83-584 DCN-00
10	4-12-85	BCS	JM	RRB	INCRP DCR 83-12 DCN-00
9	4-27-99	RWS	JM	HWM	INCRP MM0D 98 0521 DCN 00
8	7/30/97	MPW	BCS	VVS	INCRP MM0D 967-550 DCN 01
7	11/3/95	BCL	MPW	GRM	INCRP DCR 95-32 CAB, DCR 95-29 CA-B
6	11/29/94	DWS	MPW	MMD	INCRP MM0D 938545 CA-B
5	4/14/92	MRB	DWS	JEV	INCRP MM0D 91-515 CA-B
4	10/9/91	GPM	JM	RWM	INCRP DCR 98-32 CAB REVISED NOTE 3
3	2/2/90	MRB	APL	IV	INCRP DCR 87-178 CA 02. REVISED NOTE 3 ADDED PAID LEGEND NOTE, BALL, JOINT NUMBERS PER UE & P & 10 282974, NOTE 5, REF. CONT. CORD, AND CONT. OF BRAIN LINES TO OF SUPP. DELETED: CL BREAK
2	9/8/88	MPW	GPM	RRC	INCRP ECA 19/3783A, 06/113712B & 02/5807C, REVISED BOUNDARY, CONTINUATION REFERENCES & ADDED FORGING TAG NUMBERS.
1	9/26/86	MRJ	BCL	RRC	
0	2/5/86	TAK	DWS	WFD	ISSUED FOR OPERATIONS
REV	DATES	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station


MAIN STEAM SYSTEM
MAIN STEAM HEADERS
DETAIL

PID- 1-MS-B20581

9763-F-282092	0	MAIN STEAM SAFETY VALVE DRAINS P & ID
9763-F-895006	15	REACTOR COLANT SYS. LOOP 3 P & ID
9763-F-895004	16	REACTOR COLANT SYS. LOOP 2 P & ID
9763-F-282074	21	MAIN STEAM SHT. 1 OF 2 P & ID.
REF. DRAWING NO.	REV	TITLE



NOTES:

2. WORK THIS DRAWING WITH DRAWINGS 20574, 20580, 20581 & 20583 THROUGH 20587.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "MS", UNLESS NOTED OTHERWISE.
4. VENTS, DRAINS AND TEST CONNECTION COCK BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-INHY-085111, UNLESS NOTED OTHERWISE.
5. DELETED
6. CHECK VALVES V417, V418, V421, V408, V404, & V405 ARE TO BE INSTALLED OPPOSITE FROM DIRECTION OF FLOW IN VERTICAL RUN OF PIPE SUCH THAT THEY HANG OPEN AND ALLOW DRAINAGE WHEN SYSTEM IS DEPRESSURIZED, THUS ENSURING CONDENSATE DRAINAGE & PREVENTING WATER HAMMER.
7. VALVES V299 & V308 ARE THROTTLED 1/4 OPEN FROM FULL CLOSED POSITION.
8. THE INTERNALS FROM VALVES V267 & V268 HAVE BEEN REMOVED.
9.  INDICATES AWS SAFETY CLASS 3, NOT ASME CODE CLASS 3. (MANUFACTURE'S STANDARDS)
10. FOR INSTRUMENT AIR DETAILS SEE PID 1A-828647.
11. FOR INSTRUMENT AIR DETAILS SEE PID 1A-828644.
12. EFF TURBINE VENT & DRAIN LINES ARE CONTAINED IN A HEATED ENCLOSURE PER MH02 83-506.

PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED

19	7-31-86	BCS	JM	REG	INCORP. MMOD 83-584 DCN 08
18	18/6/83	BCS	MPW	MAP	INCORP. DCR 88-821 DCN 08
17	9/10/83	JM	BCS	MAP	INCORP. MMOD 83-8585 DCN 08
16	18/22/82	JM	MPW	BCS	INCORP. CR 01-85172 REV 08
15	5/14/82	MPW	JM	MAP	INCORP. DCR 01-817 DCN 08
14	11/22/80	BCS	MPW	DJM	REINCORP. MMOD 98-599 DCN-08
13	6/3/98	BCS	MPW	RMR	INCORP. MMOD 98-599 DCN-08
12	6/3/98	BCS	MPW	VMS	REINCORP. MMOD 96-558 DCN 02
11	8/18/97	MPW	BCS	VMS	INCORP. MMOD 96-558 DCN 02
10	6/28/97	DWS	MPW	SAW	INCORP. DCR 970884 CA0198
9	11/28/95	MPW	BCS	GRM	INCORP. DCR 94-43 CA0
8	18/23/95	BCL	MRR	RSG	INCORP. MMOD 92-582 CA0, 02
7	4/28/92	MRR	BCL	RMR	INCORP. MMOD 91-515 CA0
					INCORP. DCR 98-32 CA0
					REVISED NOTE 3
					ADDED CONT COORD
					DELETED: ASSE CLASS BREAK PER NOTE 3
6	18/9/91	GPM	JM	RWM	INCORPORATED MMOD 98-538 CA0
5	6/14/98	MRR	JM	GRM	INCORP. DCR 89-41 CA12
4	2/9/98	MRR	APL	RRC	REVISED NOTE 3
3	6/1/87	MRR	DS	RRC	IDENT SUMP LOCATIONS, ADDED SYSTEM & CLASS BREAKS, INCORP'D DCR 87-212
2	9/22/86	MRR	MAP	RRC	REVISED BLDG BOM ADDED CONTINUATION REFS. V293 ADDED CIVIL INCORP. ECR 86-8828998. REV'D PER LATER 08/11/2428A
1	7/2/86	OFO II	BCL	RRC	REVISED PER ECA 08/11/31712B AND 08/11/7428A
0	2/5/86	TAK	DWS	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKO	CE	DESCRIPTION

FPL ENERGY


Seabrook Station

MAIN STEAM SYSTEM
EMERGENCY FEEDWATER
PUMP SUPPLY
DETAIL

PID- 1-MS-B20582



NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20579 THRU 20582 & 20584 THRU 20587.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
4. DELETED
5. ABOVE SEAT DRAINS ON BOTH TURBINE STOP VALVES & TURBINE CONTROL VALVES ARE SHOWN ON DRAWING 820587.
6.  INDICATES REVISION LEVEL
7. TO HYDRAULIC SYSTEM SEE FP230923 SHT 9 & 13 ITEMS 2-31.3-31 & 2-7.
8. VALVE MAY BE OPEN DURING PLANT START-UP OR SURVEILLANCE

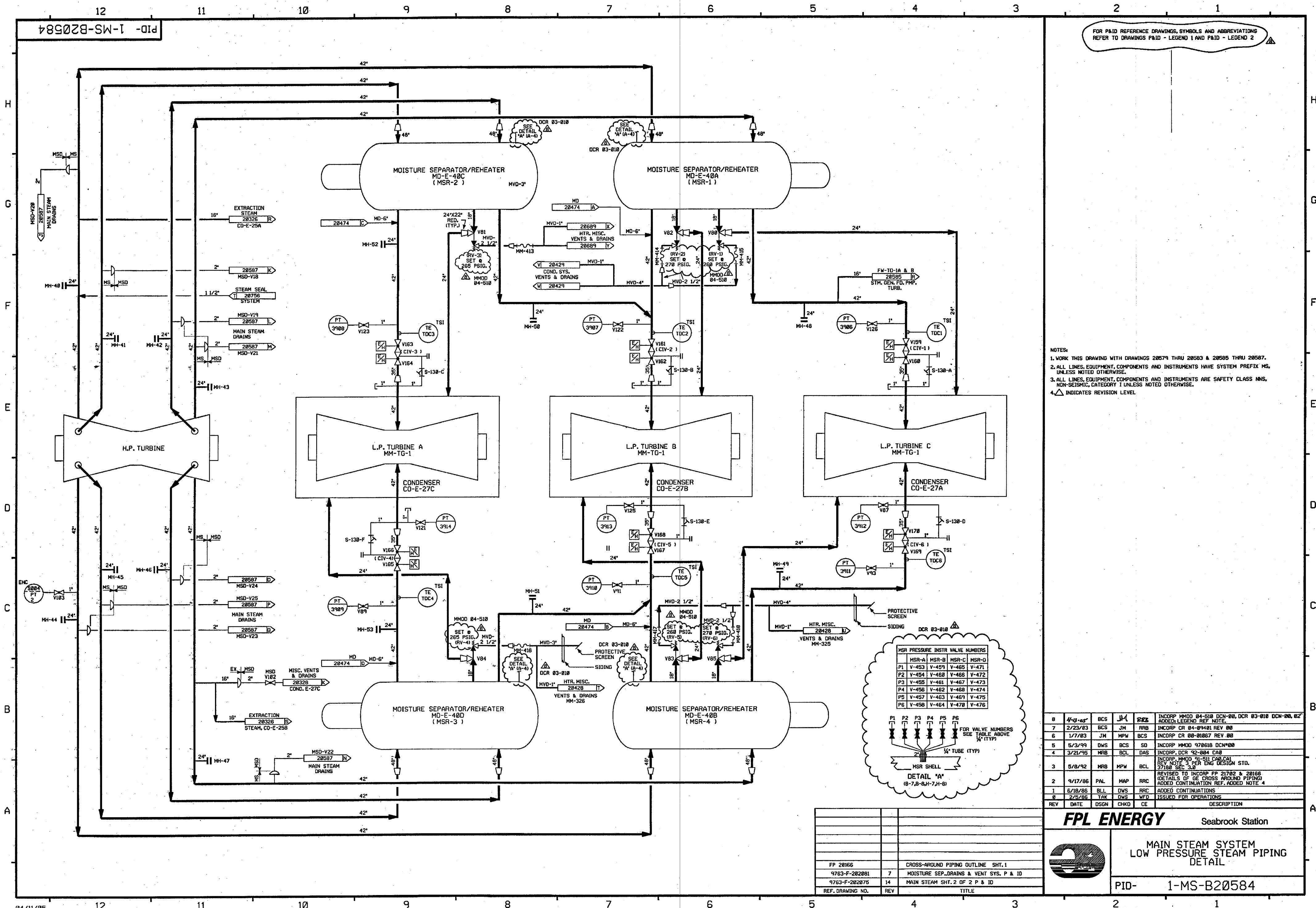
15	8-11-86	BGS	JM	JM	INCRP DCR 87-023 DCN-02
14	10-11-86	BGS	JM	JM	INCRP DCR 04-015 DCN-00, 01
13	12-23-84	JM	BGS	RRB	INCRP CA 04-12622 REV. 0
12	9/7/84	JM	BGS	RRB	INCRP MSE 03-111, REV.0
11	6/21/98	ORL	BGS	VWS	INCRP MMD 97-521 DCN 02
9	8/18/97	MPW	BGS	VWS	INCRP MMD 96-558 DCN 01
9	11/19/95	MAP	MPW	MPW	INCRP MMD 95-523 CA0
8	1/21/92	MRB	BCL	RRC	INCRP MMD 91-501 CA0
7	10/29/98	MRB	DSB	BCL	INCRP MMD 98-533 CA00
6	6/18/98	MRB	HP	IW	INCRP MMD 98-501 CA08
5	1/28/88	MPW	OPM	RRC	INCRP MMD 98-509 CA 0
4	5/8/87	GPM	DWS	VWS	INCRP DCR 87-714 & DCR 86-549 REVISED: NOTE 3
3	4/22/87	GPM	DWS	VWS	ADDED HYDRAULIC SHUT OFF VALVES & NOTE 7 PER FP23003.
2	10/8/96	MRJ	MAP	RRC	ADDED CONTROL LINE TO MSIV CONTROL SYSTEM PER UEAC CONTROL LOOP DIAGRAMS. REVISED PIPING TO REFLECT AS-INSTALLED CONDITIONS.
1	6/23/86	OPD	JM	RRC	INCRP CA 97-109999A & 097-116467A & 1097-157501 REVISED CONTROL LOOP NOTE 6 AND P&ID LEGEND NOTE 1. REVISED NOTE 1 TO REFLECT SIZES PER UEAC P&ID & P.P. REV. TO REF. BLOCK.
0	2/5/86	TSN	DWS	MFD	ADDED SYSTEM DESIGN TO 2" MSD LINES INCORPORATED CA 97-10929A
REV	DATE	DSGN	CHKD	CE	ISSUED FOR OPERATIONS
					DESCRIPTION

Seabrook Station

MAIN STEAM SYSTEM
MAIN STEAM MANIFOLD
& H.P. TURBINE PIPING
DETAIL

PID- 1-MS-B20583

[illegible]



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

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20579 THRU 20583 & 20585 THRU 20587.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MS, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MS, NON-SEISMIC, CATEGORY 1 UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.


FPL ENERGY

Seabrook Station

MAIN STEAM SYSTEM
LOW PRESSURE STEAM PIPING
DETAIL

PID- 1-MS-B20584

763-F-282875 14 MAIN STEAM SHT. 2 OF 2 P & ID

[illegible]

PID- 1-MS-B20586

9763-F-202075	14	MAIN STEAM SHT. 2 OF 2 P 8
OFF DRAWING NO	OFF	TITLE

PID-1-MS-B20587

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

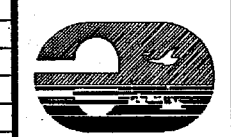
PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20579 THRU 20586.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MSD, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 4. MAIN STEAM CONTROL & STOP VALVES ARE SHOWN ON DRAWING 20583.
 5. Δ INDICATES REVISION LEVEL.

17	11-14-86	BCS	MRB	MAP	INCORP MSE 06-231 REV. 00
16	5/24/85	JM	RRB	MAP	INCORP MSE 02-544 REV. 00
15	11/12/83	BCS	MPW	SD	INCORP MMD 02-544 REV. 00
14	11/15/80	MPW	BCS	SD	INCORP DCR 99-32 DCM 00
13	5/25/80	BCS	MPW	S.O.A.S	INCORP DCR 980832 CA-11
12	5/21/79	BCS	DWS	MKC	INCORP MMD 980511 DCM*00
11	4/22/79	DWS	BCS	MKC	PARTIAL INCORP MMD 980511 DCM*00
10	6/2/78	DRL	MPW	VWS	INCORP MMD 97-521 DCM 00 & 02
9	1/21/78	MRB	JEV	RRC	INCORP MMD'S 98-633 CA01 AND 97-515 CA02
8	9/23/76	GPM	MRB	RSQ	INCORP DCR'S 98-30 CA10 & 98-32 CA0
7	5/21/76	MRB	BCL	IV	RE-INCORPORATED MMD 98-577 CA 0
6	5/15/76	MRB	APL	RSH	INCORPORATED MMD 98-577 CA 0
5	2/5/76	MRB	RSQ	IV	INCORPORATED DCR 89-34, CA0
4	2/24/76	MRB	APL	WFD	INCORPORATED DCR 88-94, CA0
3	1/28/76	MPW	GPM	RRC	ADDED LINE SIZES, NOTE 5, P & ID LEGEND NOTE & REF. COORDINATES. REVISED DUPLICATE VALVE NO. PER UE & C P & ID F-282118 DELETED PIPE SPECS. INCORP. DCR 88-714 AND REV'D NOTE 3 & 4
2	6/26/77	JDM	BCL	RRC	REVISED TIE-IN PER F-414017
1	5/12/76	MRJ	BCL	RRC	ADDED CONTINUATION REF. V-9 WAS DATE 11/1/76 WAS VBL. ADDED TIE-INS FROM MD-E-48A, B, C & D TO CO-E-27B. ADDED REF. DWS. ADDED T-5, T-6, T-7, T-8 & ASSOCIATED PIPING PER DWS F-414456 & F-414457.
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station

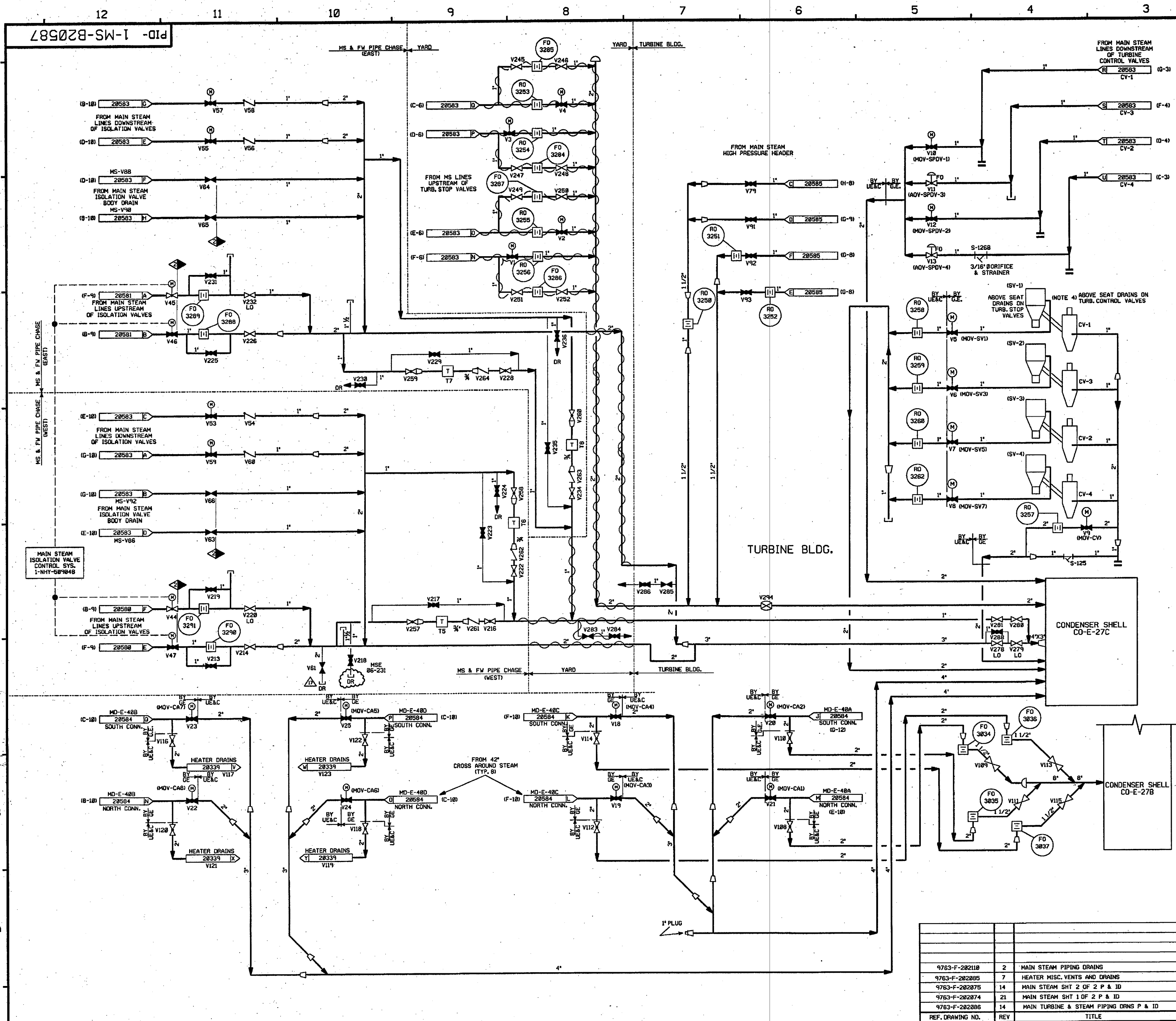


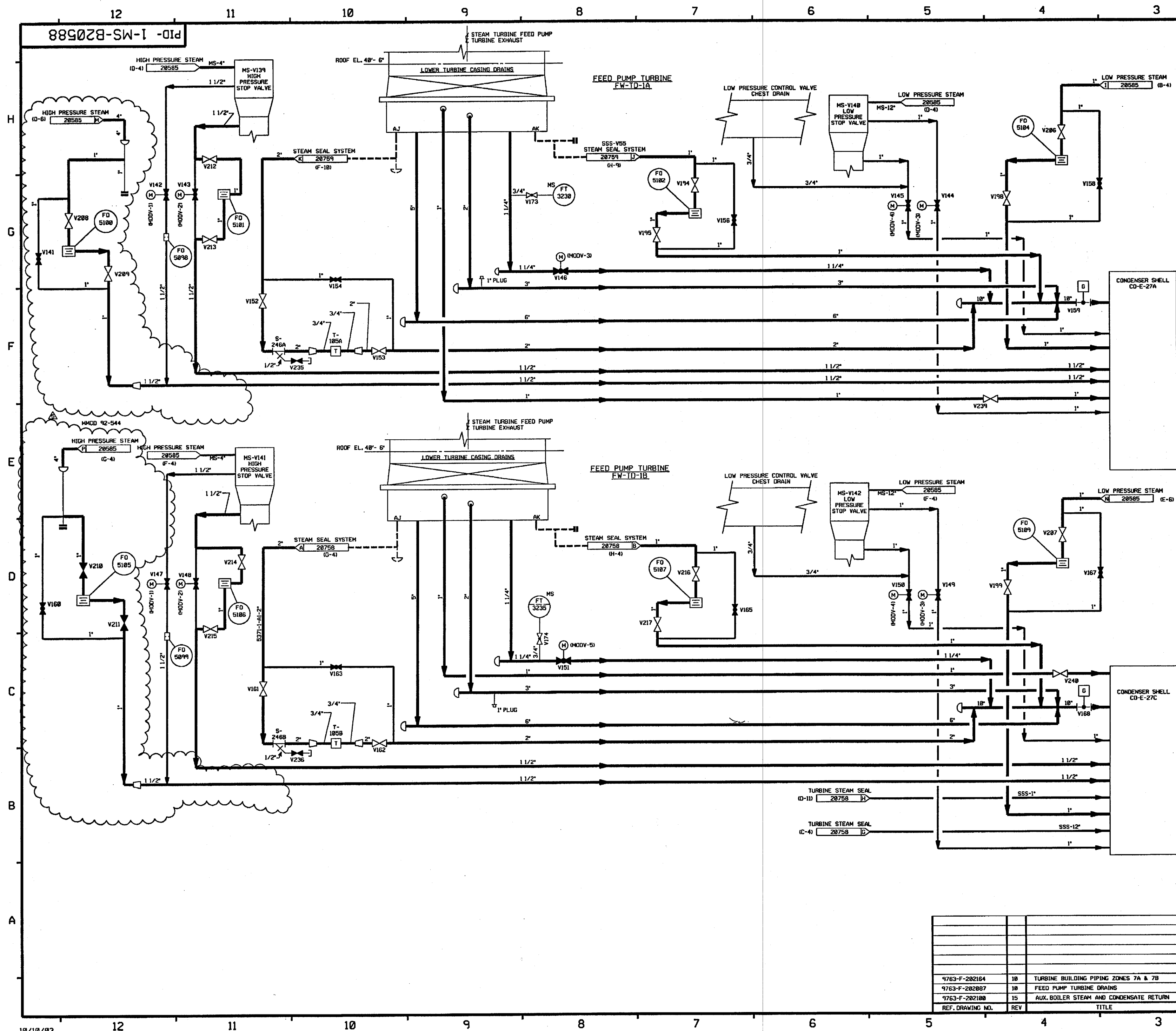
MAIN STEAM SYSTEM
MAIN STEAM DRAINS
DETAIL

PID- 1-MS-B20587

CATEGORY 1

REF. DRAWING NO.	REV	TITLE
9763-F-282118	2	MAIN STEAM PIPING DRAINS
9763-F-282895	7	HEATER MISC. VENTS AND DRAINS
9763-F-282075	14	MAIN STEAM SHT 2 OF 2 P & ID
9763-F-282074	21	MAIN STEAM SHT 1 OF 2 P & ID
9763-F-282086	14	MAIN TURBINE & STEAM PIPING DRAINS P & ID



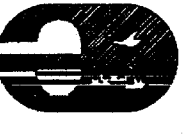


FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
- 1.) WORK THIS DRAWING WITH DRAWINGS 20579 THRU 20587.
 - 2.) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX MVD, UNLESS NOTED OTHERWISE.
 - 3.) MAIN STEAM CONTROL AND STOP VALVES ARE SHOWN ON DRAWING 20583.
 - 4.) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MNS UNLESS NOTED OTHERWISE.
 - 5.) Δ INDICATES REVISION LEVEL.

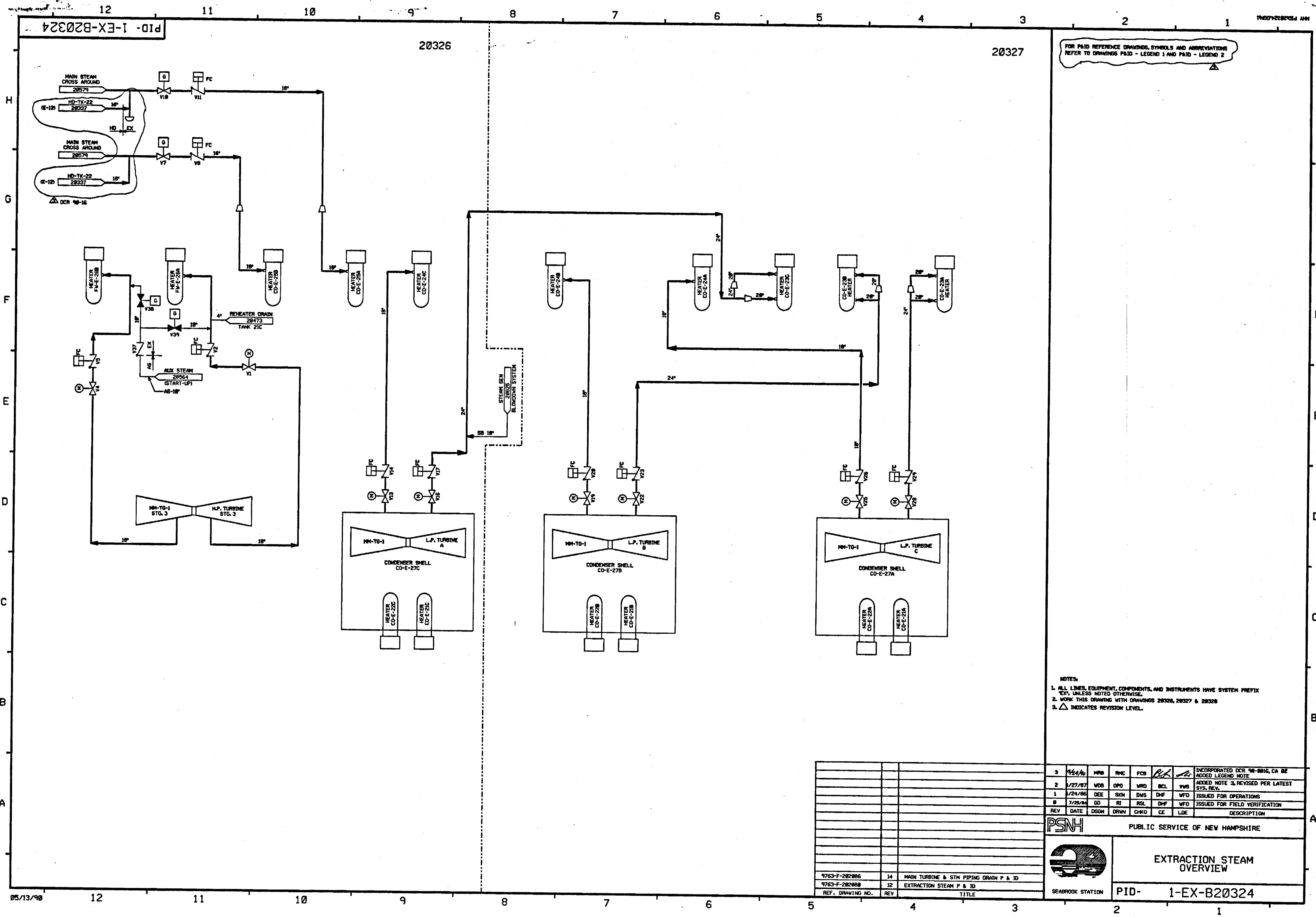
5	10-11-03	BCL	MB	RBB	INCORP. M400 02-544 DCN 00 & 01
4	5/25/92	MRB	BCL	RRB	INCORP. M400 91-515 CAB
3	5/23/90	MRB	APL	DJM	INCORP. M400 90-577 CAB
2	5/5/89	MRB	GPM	GRM	REVISED NOTE 4 AND PIPING TO CLARIFY DUPLICATION OF SYSTEM & INTERFACES. ADDED LEGEND REFERENCE NOTE. CONTINUATION COORDINATES NOTE 5 DELETED NUCLEAR SFTY RELATED STAMP
1	9/17/86	MRJ	MAP	RRR	REV TO ADD RACK MOUNTED DESIGNATION TO FV-3235 FROM LOCAL MOUNT IN ERROR
0	6/5/86	OPD	DWS	WFD	REVISED CONTINUATION REFERENCES.
REV	DATE	DSGN	CHKD	CE	ISSUED FOR OPERATIONS
					DESCRIPTION

FPL ENERGY Seabrook Station

**MAIN STEAM SYSTEM
MISC. VENTS AND DRAINS
DETAIL**

PID- 1-MS-B20588

REF. DRAWING NO.	REV	TITLE
9763-F-202164	10	TURBINE BUILDING PIPING ZONES 7A & 7B
9763-F-202087	10	FEED PUMP TURBINE DRAINS
9763-F-202100	15	AUX. BOILER STEAM AND CONDENSATE RETURN



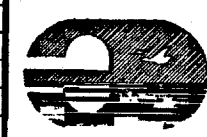
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- 1. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX
 - 2. WORK THIS DRAWING WITH DRAWINGS 28326, 28327 & 28328
 - 3. Δ INDICATES REVISION LEVEL

3	7/24/06	WDS	OPD	WRO	BCL	WVS	INCORPORATED DCR 90-0816, CA 02 ADDED LEGEND NOTE
2	1/27/07	WDS	OPD	WRO	BCL	WVS	ADDED NOTE 3, REVISED PER LATEST SYS. REV.
1	1/24/06	DEE	SKN	DWS	DWF	WFD	ISSUED FOR OPERATIONS
0	7/25/04	GD	RI	RSL	DWF	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

PSNH

PUBLIC SERVICE OF NEW HAMPSHIRE



EXTRACTION STEAM
OVERVIEW

9763-F-282886	14	MAIN TURBINE & STM PIPING DRAIN P & ID
9763-F-282888	12	EXTRACTION STEAM P & ID
REF. DRAWING NO.	REV	TITLE

PID- 1-EX-B20324

170078203280012270000

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

- NOTES:
1. MAIN TURBINE & STEAM PIPING DRAINS, WHICH INTERFACE WITH EXTRACTION STEAM ARE SHOWN ON THIS DNG.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEMS PREFIX MSD UNLESS NOTED OTHERWISE.
 3. WORK THIS DRAWING WITH DRAWINGS 28324, 28326 & 28327.
 4. Δ INDICATES REVISION LEVEL.

6	8/1/77	MPW	---	WJS	PK	---	INCORP HMOO 95-514 CA B2
5	11/12/75	BCL	---	MPW	MKD	RSB	INCORP HMOO 95-514 CAB
4	7/27/74	DWS	---	BCL	MPW	PEB	INCORP HMOO 94-524 CAB - CA B1
3	8/14/72	MRS	---	DWS	BCL	JEV	INCORP HMOO 91-515 CAB
2	12/3/66	HAP	TAK	WRD	BCL	NRK	ADDED PORTION OF MAIN STEAM PIPING VALVE DESIGNATION PER DESIG PIPING DNG. ADDED DRA. LOCATION CORO & WELD 2. REVISED P&ID REVISIONS IN REF B. 10.2.
1	8/28/66	DWS	DPO	DWS	JHS	NRK	CORRECTED DESIGN FW TO CO. 6
0	1/24/66	DEE	SKN	DWS	DHF	MFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

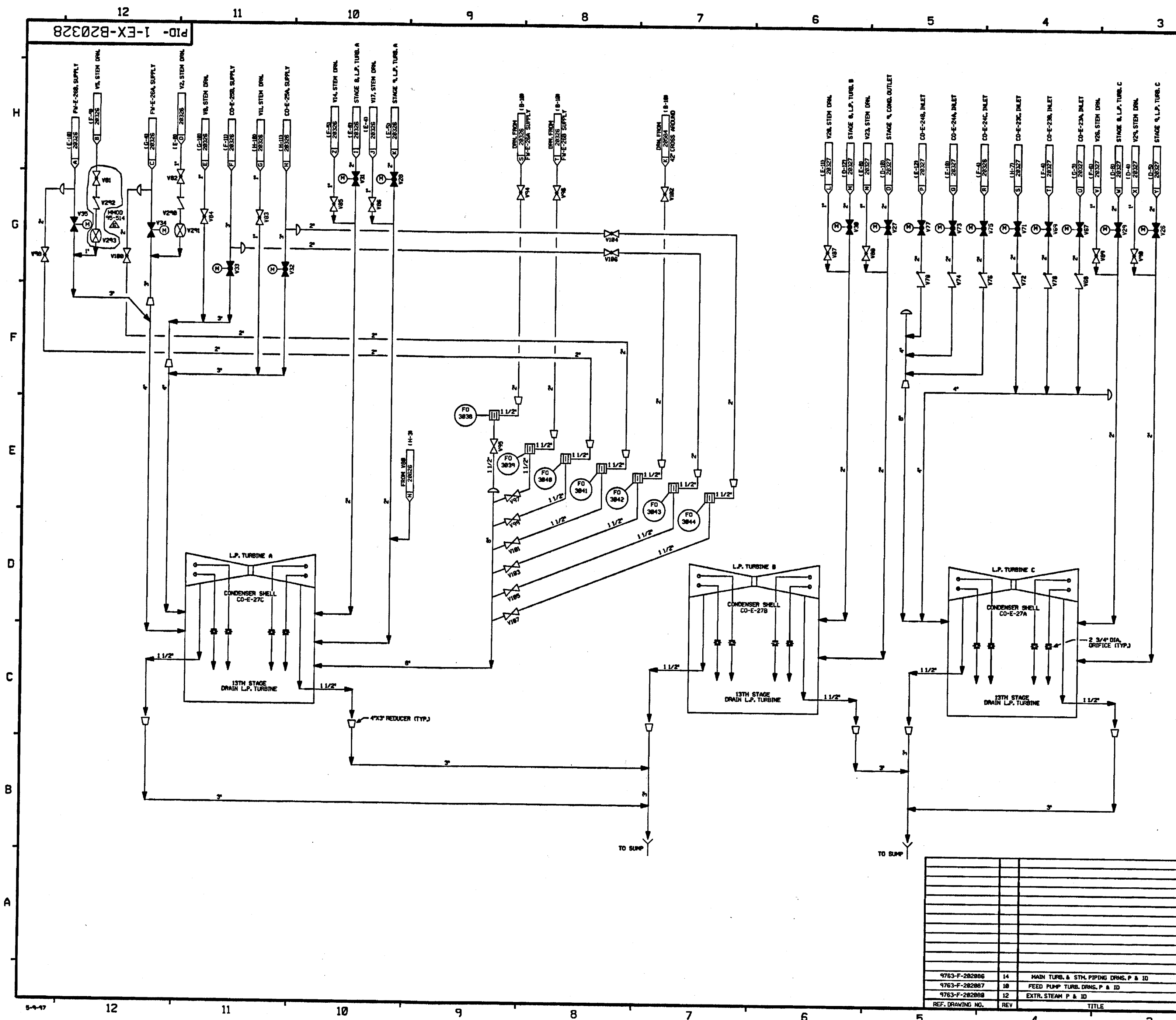
North Atlantic Energy Service Corporation



EXTRACTION STEAM
MAIN TURBINE & STEAM
PIPING DRAINS
(MSD)

PID- 1-EX-B20328

9763-F-282886	14	MAIN TURB. & STL. PIPING DNGS. P & ID
9763-F-282887	10	FEED PUMP TURB. DNGS. P & ID
9763-F-282888	12	EXTR. STEAM 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

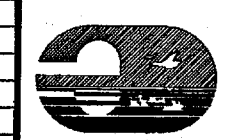
- NOTES:
1. AR IS A SINGLE DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX AR, UNLESS NOTED OTHERWISE.
 3. REFER TO PP 28686 AND 28687 FOR DETAILS.
 4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 5. Δ INDICATES REVISION LEVEL.
 6. FOR DEMINERALIZED WATER SUPPLY DETAILS TO MOISTURE SEPARATORS AR-MM-22A, 22B, 22C, 55A & 55B, SEE DWG 1-MM-28349

GENERAL REFERENCES:
LOGIC DIAGRAM M-583148
SD-2, CONDENSER AIR EVACUATION SYSTEM DESIGN DESCRIPTION
LOOP DIAGRAM M-586849

REV	DATE	BY	CHKD	SES	DESCRIPTION
22	3/2/03	BCS	JML		INCORP MSE 01-149 REV 00, 01
21	2/5/03	MPW	BCS	JM	INCORP CR 82-15149
20	2/14/02	MPW	BCS	RSG	PARTIAL INCORP MSE 01-149 REV 00, 01
19	1/3/02	BCS		DJM	INCORP CR 01-0109
18	12/06/01	BCS	JM	SPF	INCORP MM00 99-523 DCN-02
17	11/2/01	MPW	JM	MRB	PARTIAL INCORP MSE 01-153 REV 00, 01
16	9/28/01	BCS	MPW	RSC	PARTIAL INCORP MSE 01-153 REV 01
15	9/14/01	MPW	MRB	ICW	PARTIAL INCORP MSE 01-153 REV 00
14	1/26/01	BCS	DWS	JCM	INCORP MSE 01-0011 REV. 0
13	9/5/00	DWS	BCS	RSG	INCORP DCR 980014 DCN#00, 01, 02 & 03 MSE 00-0100 REV-0
12	6/2/98	DRL	BCS	VWS	INCORP MM00 97-521 DCN#00
11	6/13/97	DWS	MPW	GG	INCORP MM00 960521 DCN#00 & 01
10	11/27/95	MPW	BCS	RRC	INCORP DCR 94-20 CA-0
9	8/7/95	BCL	DWS	GRM	INCORP DCR 94-20 CA-03
8	5/31/95	BCL	BCL	RSG	INCORP DCR 92-31 CA-0 & PARTIAL INCORP DCR 94-20 CA-0
7	12/15/94	MPW	MPW	MHO	INCORP MM00 93-545 CA0
6	3/11/94	MRB	BCL	GRM	INCORP MM00 92-553 CA01
5	11/24/93	MRB	BCL	BAM	INCORP DCR 91-45 CA03
4	10/20/92	MRB	DWS	WDS	INCORP MM00 90-527 CA0
3	5/8/92	MRB	MPW	BCL	INCORP MM00 91-551 CA03 & 91-522 CA0 REVISED NOTES 2 & 4 AND DELETED FIGS & SPEC BREAKS FOR FOR DWG ENHANCEMENT
2	4/20/88	PAL	BCL	RRC	CORRECTED NOTE 3, ADDED LINE SIZE & REDUCED REF SYS SHOWN IN PHANTOM
1	10/30/86	JDM	WRD	RRC	DELETED DUPLICATED VALVE, SEE V209 ADDED REF DWG 0000, DELETE V209 CONTROL BOX AND PER P-28686, REVISED 8/2/1995, ECA 98/10/544, UPDATE REF DWG REV 5 & REV DWG ACCORDINGLY. PARTIAL CONTINUATIONS, ADDED NOTES 5-8. ISSUED FOR OPERATIONS

FPL ENERGY

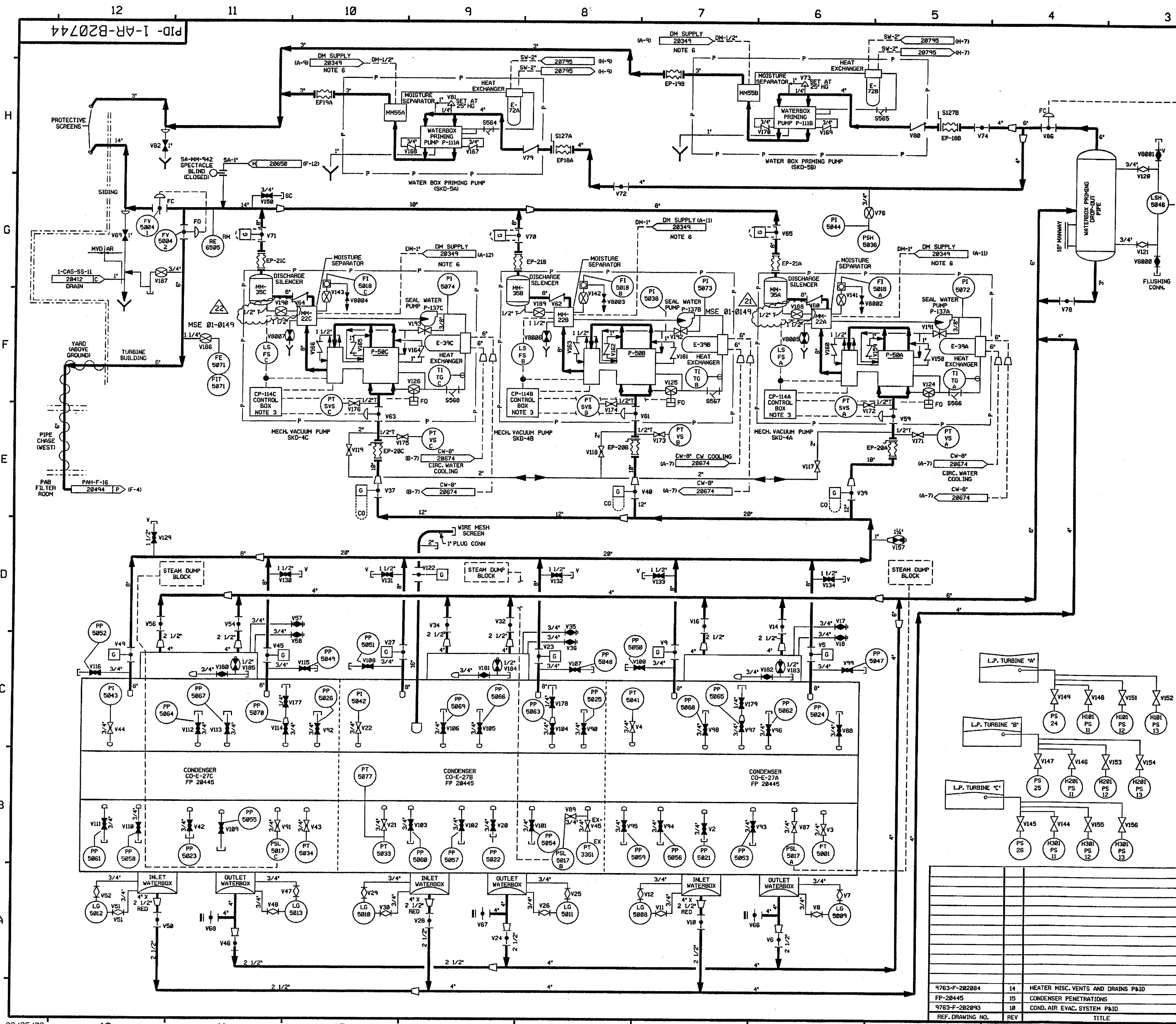
Seabrook Station



CONDENSER AIR EVACUATION
SYSTEM P&ID

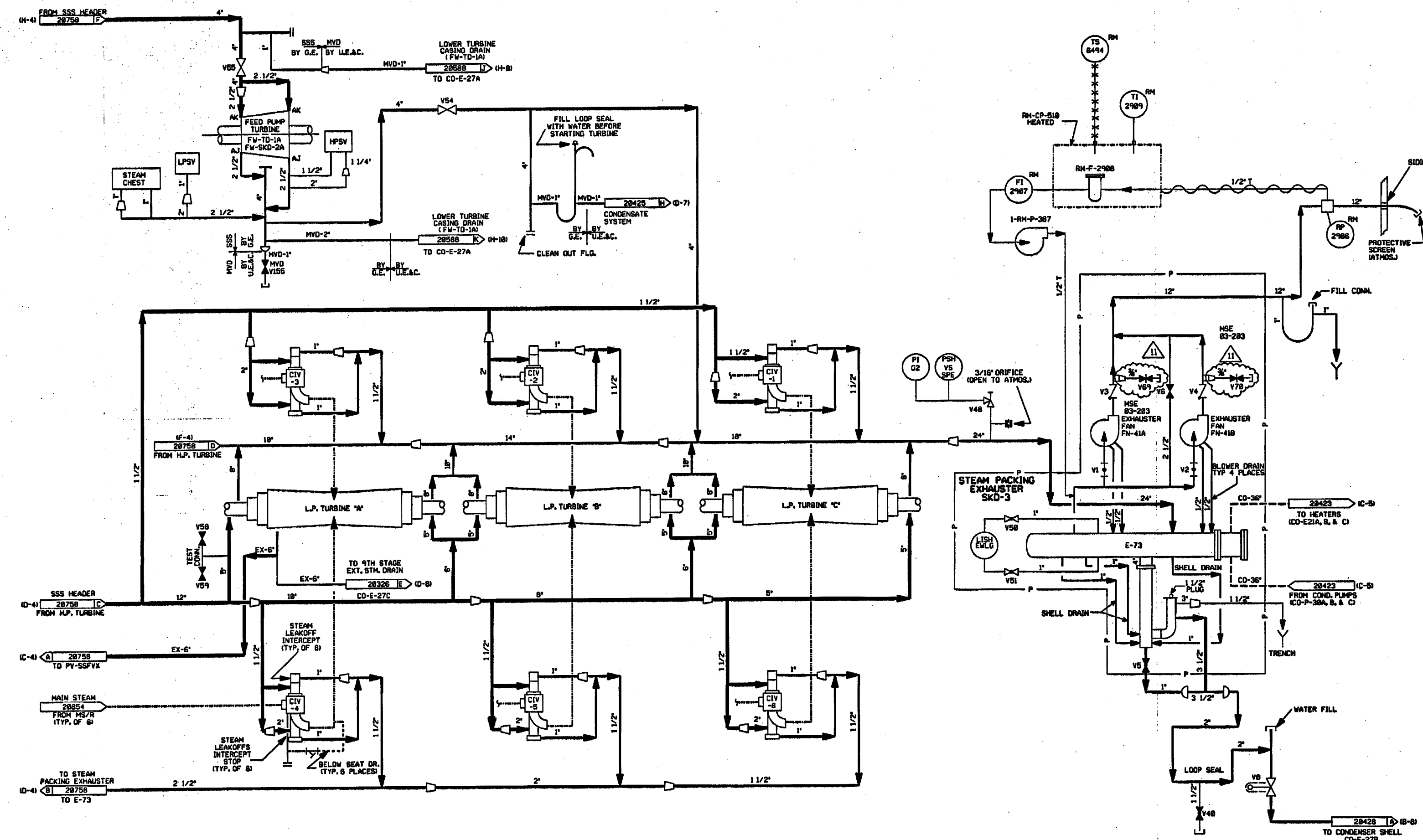
PID- 1-AR-B20744

REV	DATE	BY	CHKD	SES	DESCRIPTION
9763-F-202084	14				HEATER MISC. VENTS AND DRAINS P&ID
FP-20445	15				CONDENSER PENETRATIONS
9763-F-202093	10				COND. AIR. EVAC. SYSTEM P&ID
REF. DRAWING NO.	REV	TITLE			



PID-1-SSS-B20759

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



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28756 & 28758.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-SSS, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS "MS" UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. DELETED
 6. DOTTED & DASHED LINES DENOTE MAIN STEAM PIPING.

11	6-8-84	BCS	JM	KBB	INCOMP. MSE 83-283 REV-02
10	12/18/83	BCS	JM	PCB	REVISED PER CR 99-18734 REV. 8
9	5/7/82	HPM	JM	BCS	REVISED PER FFP-8 28416, 28428 & 180'S
8	1/5/81	BCS	DWS	JCM	INCOMP. MSE 880831 REV. 8
7	12/4/76	HPM	BCS	DJM	INCOMP. MWD 95-584 CMB
6	4/28/72	MWB	DWS	JEV	INCOMP. MWD 91-535 CMB
5	2/2/70	MWB	RPL	IV	RE-INCORPORATED DCR 88-197 CA-BI
4	5/5/69	MWB	GPH	GRM	INCORPORATED DCR 88-197 CA-BI, REVISED NOTE 3, CONT. TAG DESCRIPTIONS, ADDED CONTINUITY COORDINATES
3	11/26/66	MWB	WRD	RRC	ADDED NOTE FOR PAID LEGEND DWS CONT. COORDS, DELETED NOTE 5 AND CHANGE ITEM 3, REVISED DRAFTING ERRORS AND REF DWS REV. 8
2	8/28/66	DWS	JDM	RRC	ADDED CO CONFID. & CO-E-27C DESIGN, REMOVED CHANGE ITEMS 1 & 2, ADDED CHANGE ITEM 3
1	18/18/65	TAK	DWS	WFD	ISSUED FOR OPERATIONS, GENERAL REVISION
8	8/7/64	CB	BSL	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	SES	DESCRIPTION

FPL ENERGY

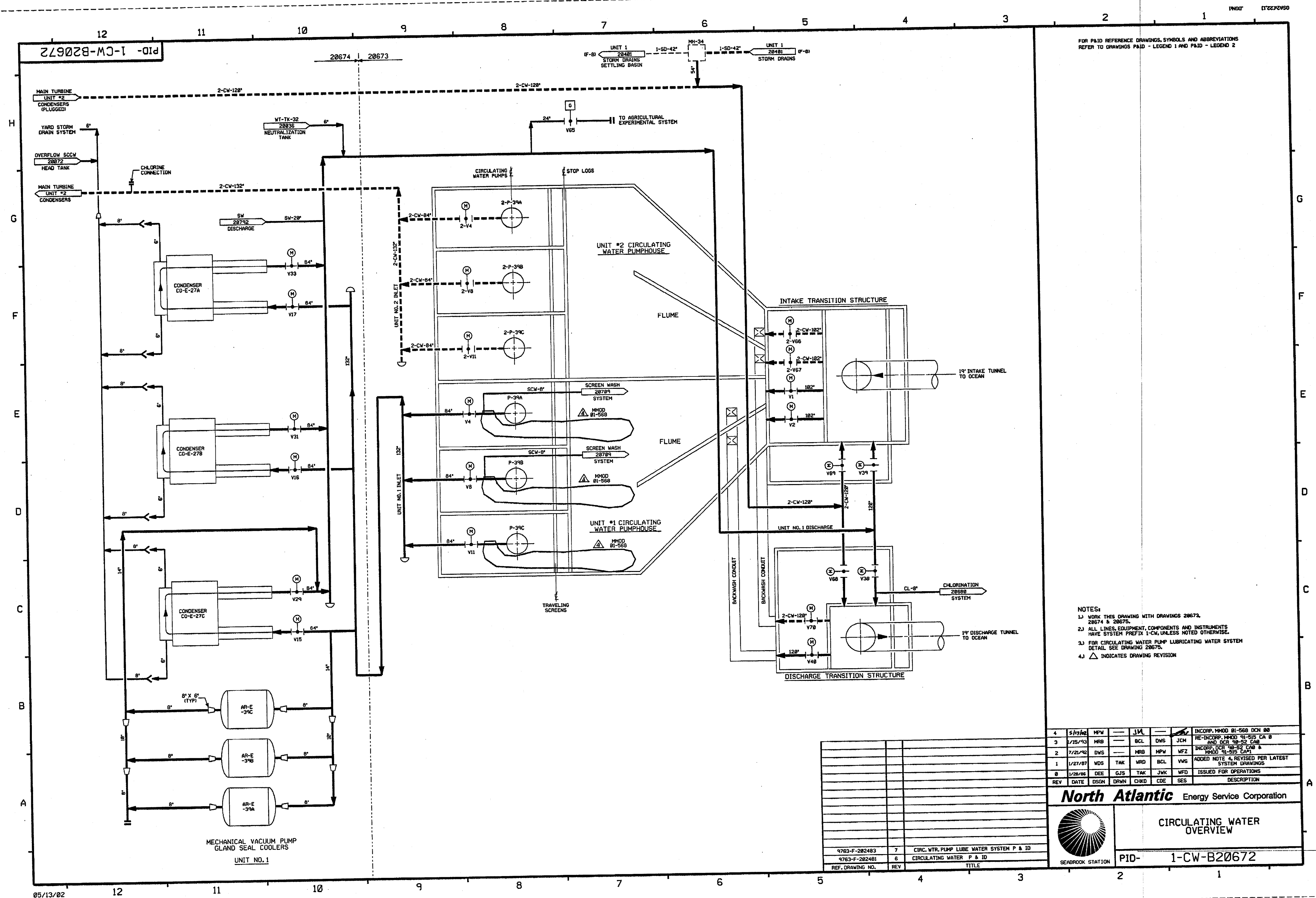
Seabrook Station

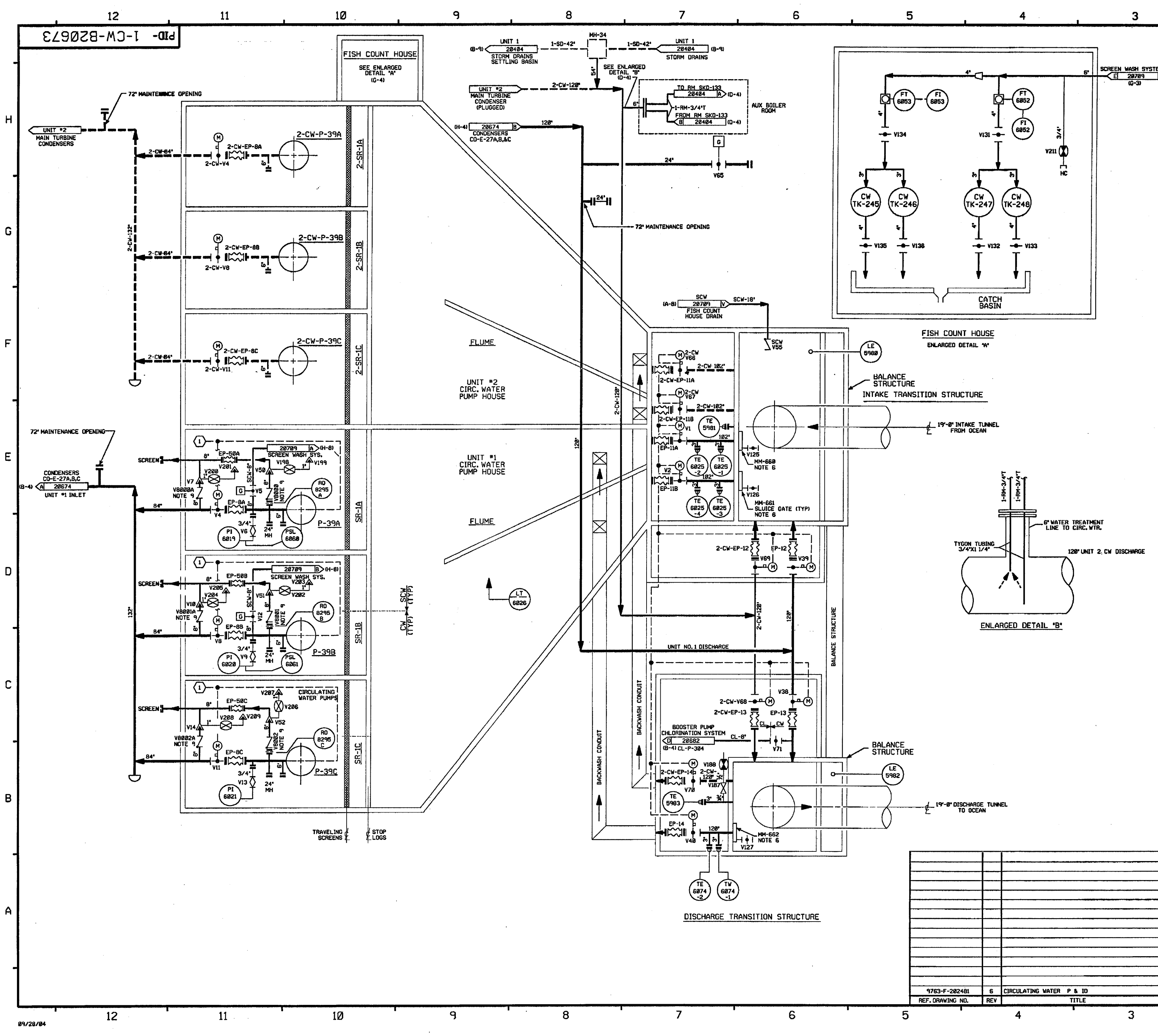


**TURBINE STEAM SEAL SYSTEM
DETAIL**

PID- 1-SSS-B20759

REF. DRAWING NO.	REV	TITLE
9763-FP-28735	8	FEED PUMP TURBINE
9763-FP-28416	1	STEAM PACKING EXHAUSTER
9763-FP-28415	10	T-G STEAM SEAL SYSTEM DIAGRAM
9763-F-282888	11	EXTRACTION STEAM-P & I DIAGRAM
9763-F-282877	15	CONDENSATE SYSTEM-P & I DIAGRAM
9763-F-282884	14	HEATER MIST, VENTS & DR-P & I DIAGRAMS
9763-F-282887	8	FEED PUMP TURBINE DRAINS-P & I DIAGRAMS
9763-F-282875	14	MAIN STEAM SHUT 2 OF 2 PAID
9763-F-282870	5	STEAM SEAL SYSTEM-P & I DIAGRAMS






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

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 28672, 28674 & 28675.
 - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CW, UNLESS NOTED OTHERWISE.
 - 3) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 - 4) DELETED.
 - 5) ① LUBE WATER FLOW NORMAL, SCREEN DIFFERENTIAL NORMAL AND CONDENSER WATER BOX VACUUM BREAKER VALVES CLOSED.
 - 6) SLUICE GATES ARE DESIGNED TO BE USED INTERCHANGEABLY IN ANY SET OF GUIDES OF THE SPECIFIED SIZE.
 - 7) DASH LINES DESIGNATE UNIT #2 PIPING.
 - 8) Δ - INDICATES REVISION LEVEL.
 - 9) THE DUAL FUNCTION OF THESE SURGE CHECK VALVES IS TO LET AIR BE RELEASED FREELY FROM THE CW SYSTEM THROUGH THE VENT, BUT CLOSE WHEN SEAWATER RAPIDLY ENTERS THE VALVE AFTER VENTING IS COMPLETE.
 - 10) VALVE V187 IS ON A COUPLING WELDED TO THE THERMOWELL SLEEVE. REF. SPEC. 252-8 SH. 41.

21	10/13/04	BCS	JM	REP	INCORP. CR 04-06277 REV. 0
20	4/3/03	JM	BCS	MPW	INCORP. CR 00-00723 REV 00 & CR 02-14663 REV 00
19	1/6/03	JM	MPW	BCS	INCORP. CR 02-01414 REV 00 & CR 02-00274 REV 00
18	5/17/02	MPW	JM	IV	INCORP. MM00 01-568 DCN 00, 06
17	10/15/01	BCS	JM	JMS	INCORP. MSE 99-0219 REV. 0
16	4/13/00	MPW	DWS	RPN	INCORP. MM00 93-562 DCN 00
15	11/17/98	MPW	BCS	RSB	INCORP. MM00 98-639 DCN 00
14	11/16/97	DWS	MPW	JCM	INCORP. DCR 950011 CA*0
13	6/27/96	BCS	MPW	HWM	INCORP. DCR 91-26 CA-05
12	12/4/94	MPW	BCL	MHO	INCORP. MM00 93-545 CA0
11	7/27/92	DWS	MPW	JW	INCORP. DCR 870237 CA*0 & 1
10	7/2/92	DWS	MRB	WFZ	REINCORP. DCR 90-52
9	6/19/92	MRB	BCL	IV	RE-INCORP. MM00 91-515 CA01
8	2/6/92	MRB	BCL	RSB	INCORP. MM00 91-515 CA01
7	2/5/92	MRB	BCL	RSB	INCORP. DCR'S 91-21 CA0 & 90-52 CA0 REV. CONTINUATIONS TO REFLECT CORRES. PIDS
6	3/11/91	MRB	APL	IV	INCORP. DCR 89-65 CA03
5	5/1/90	MRB	APL	IV	INCORP. DCR 86-433 CA29
4	4/25/89	GPM	MRB	PEB	REVISED NOTE 3
3	11/21/86	PAL	PAL	RRC	INCORP. DCR 86-546 CA05 ADDED VALVE NOT'S V8000-0003, 2-CW PREFIX FOR UNIT 2 REFS AND REF CORR'S TO FLAGS, DELETED NOTE 9 AND V/A REF DNG.
2	9/22/86	MAP	BCL	RRC	INCORP. ECA 19/17262A
1	6/28/86	BLL	BCL	RRC	CHOD V58 TO V58 PER DEAC PAID VALVES V5801 & V52 ARE DUEL ACTION VALVES, HENCE VALVE NOT'S V5800- V5803 ARE NOT REQUIRED.
0	8/28/86	DEE	TAK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	SES	DESCRIPTION

**FPL ENERGY**

Seabrook Station

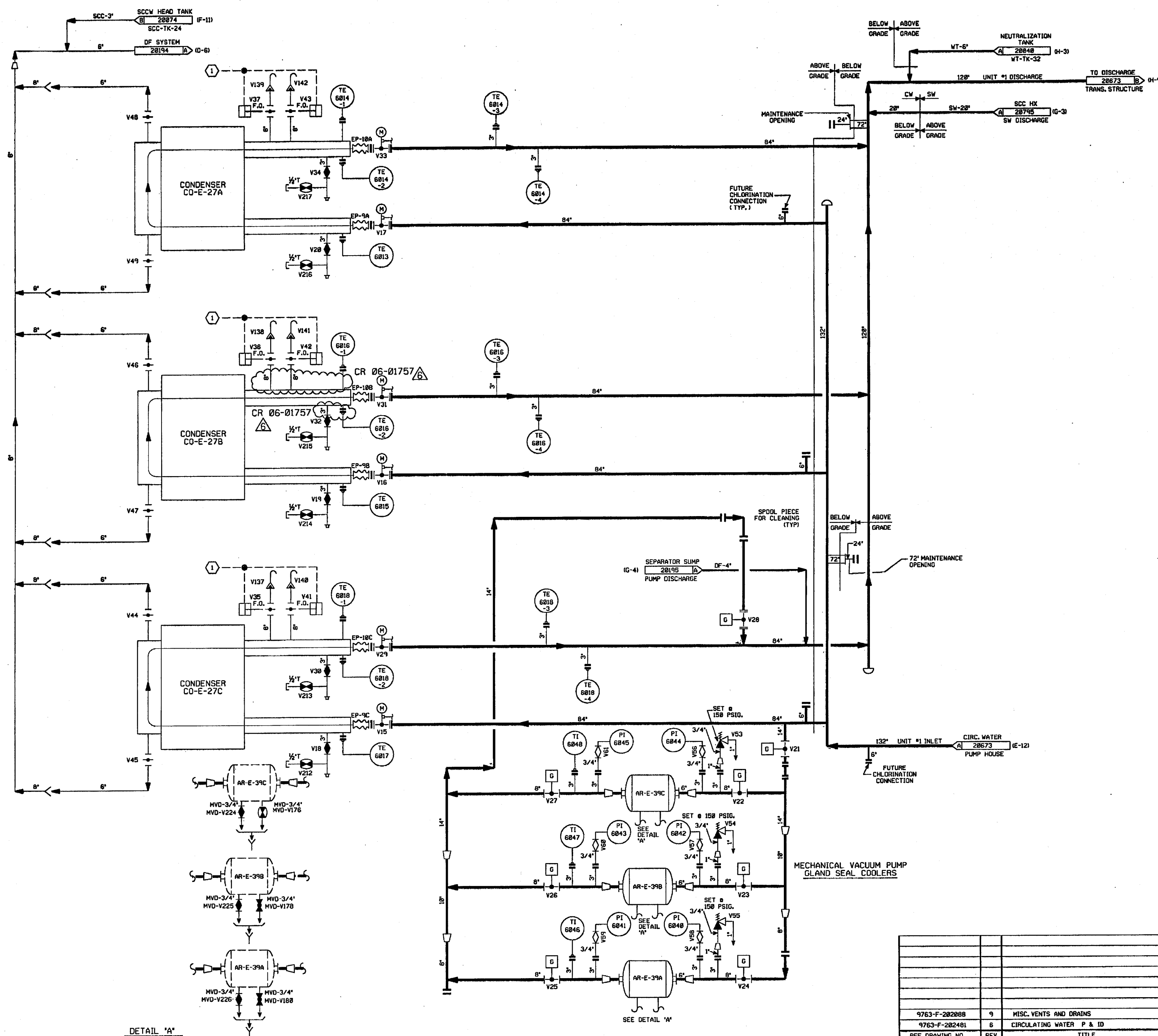
CIRCULATING WATER
DETAIL

PID- 1-CW-B20673

9763-F-202481	6	CIRCULATING WATER P & ID
REV	REV	TITLE
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12

PID-1-CW-B20674

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 B20672, B20673 & B20675.
 - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-CW, UNLESS NOTED OTHERWISE.
 - 3) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS UNLESS NOTED OTHERWISE.
 - 4) LUBE WATER FLOW NORMAL, SCREEN DIFFERENTIAL NORMAL AND CONDENSER WATER BOX VACUUM BREAKER VALVES CLOSED.
 - 5) Δ INDICATES REVISION LEVEL.

6	3-29-06	BCS	IM	201	INCORP. CR 06-01757 REV. 0
5	10/1/01	BCS	MPW	DJM	INCORP. MSE 00-0376 REV. 0
4	10/6/99	MPW	BCS	DJM	INCORP. DCR 95-38 DCM 00
3	4/19/97	JDM	PAL	RRC	INCORP. DCR 86-602 CA 00
2	11/12/96	PAL	WRD	RRC	ADDED NOTE 4, REF. COORDS TO REF. FLANGES, MVD DRAINS TO GLAND SEAL COOLERS
1	6/13/95	DWS	DWS	RRC	ADDED OF CONTINUATION
0	1/28/95	DEE	TAK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station



CIRCULATING WATER
DETAIL

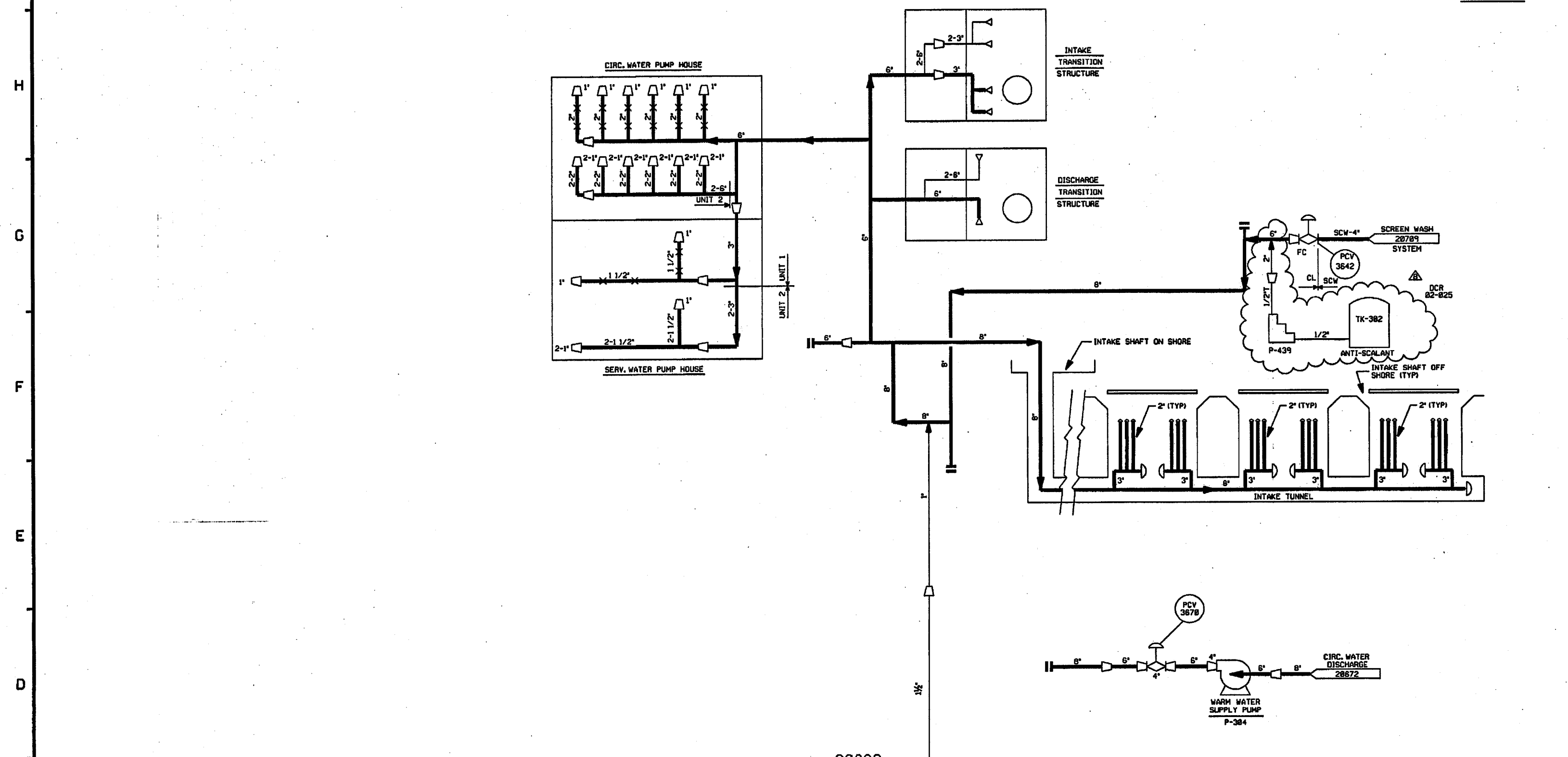
PID- 1-CW-B20674

9763-F-202088	9	MISC. VENTS AND DRAINS
9763-F-202401	6	CIRCULATING WATER P & ID
REF. DRAWING NO.	REV	TITLE

PID-1-CL-B20680

20682

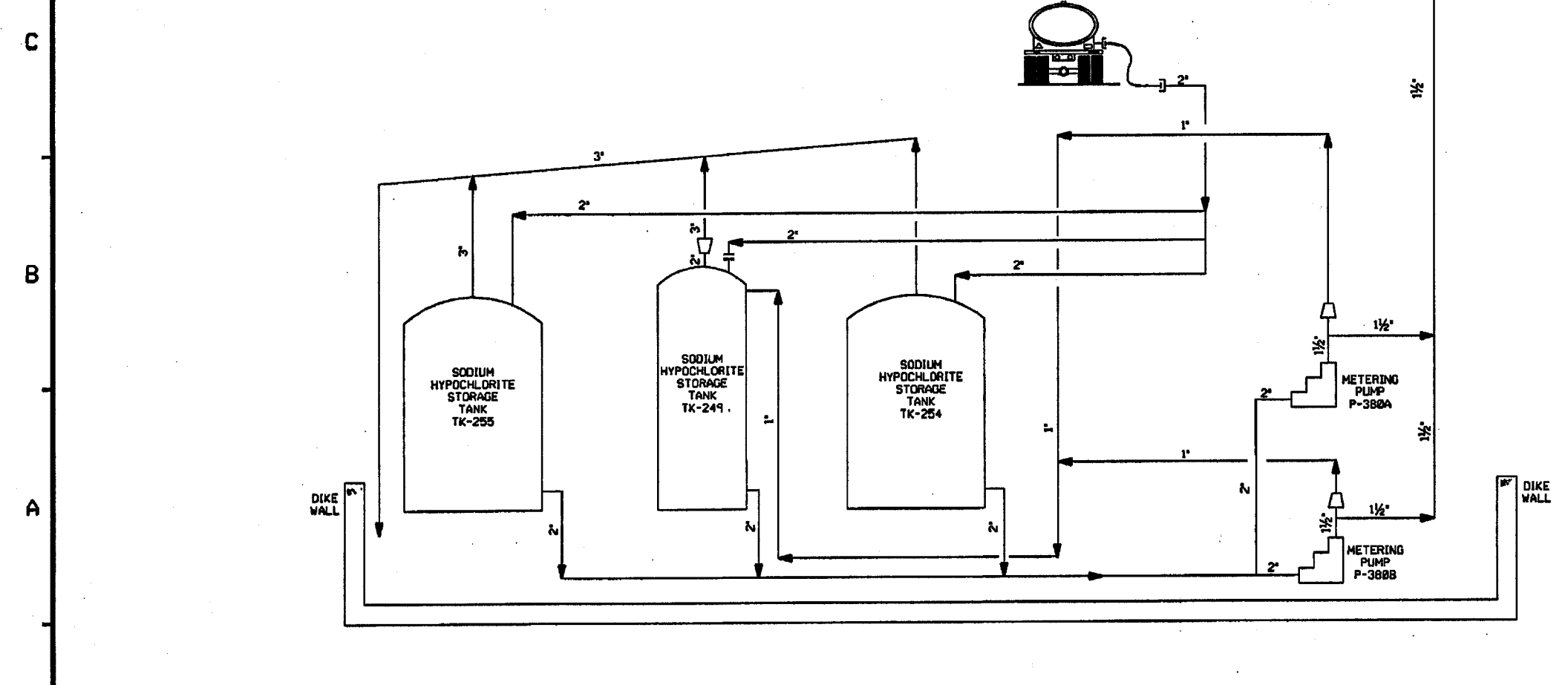
FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2



20682

20681

20681

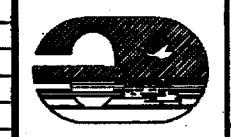


- NOTES:
1. WORK THIS DWS WITH DWS. 20681 & 20682.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CL. UNLESS NOTED.
 3. Δ - INDICATES REVISION LEVEL.

8	4/21/04	BCS	JM	ML	INCORP. DCR 82-825 DCN-882.
7	5/25/82	JM	MPW	RRB	INCORPORATED M400 81-8568 DCN 88
6	3/24/88	BCS	MPW	SPF	INCORPORATED DCR 93-19 DCN-88
5	3/31/97	BCS	DMS	RSG	INCORPORATED DCR 94-49 CAB. 83, DCR 92-8812 CA-B, REINCORP. DCR 91-26 CA-B.
4	3/19/92	MRB	RMC	IV	INCORPORATED DCR 91-26 CAB
3	3/27/91	MRB	JM	MPW	INCORP. DCR 88-183 CAB
2	4/25/89	MPW	MRB	PEB	DELETED DCR 85/2228 IN INCOMPLETE ITEMS PER DCR 88-546 INCORP. DCR 88-546 CAB.
1	1/28/87	WDS	WRD	VWS	ADDED NOTE 3, REVISED PER LATEST SYSTEM DRAWINGS
0	1/13/86	DM	WES	EDW	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	SES	DESCRIPTION

FPL ENERGY

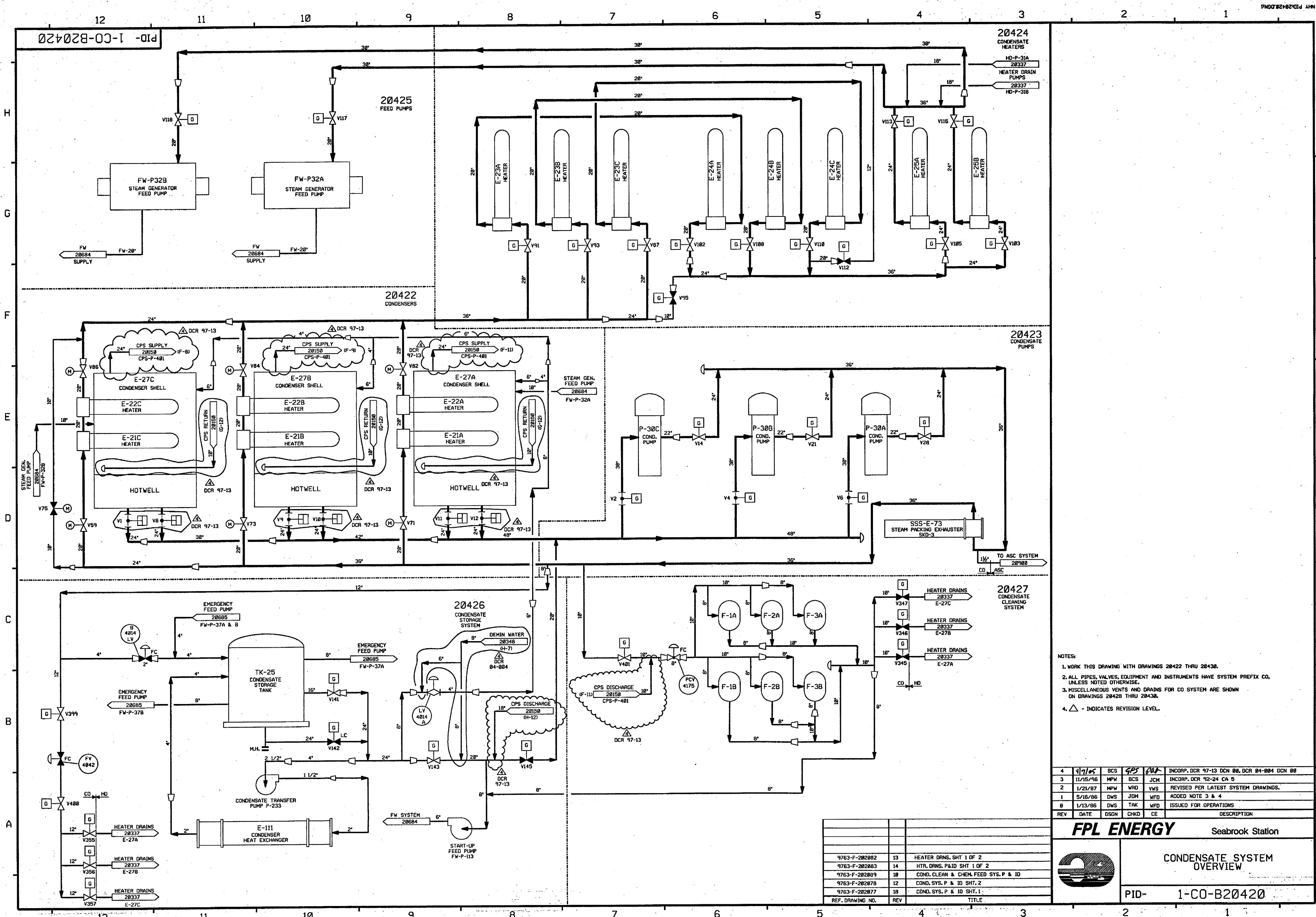
Seabrook Station




CHLORINATION SYSTEM
OVERVIEW

PID- 1-CL-B20680

9763-F-282484	7	INTAKE TUNNEL CHLORINATION & DISTRIBUTION SYSTEM P & ID
REF. DRAWING NO.	REV	TITLE



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20422 THRU 20430.
 2. ALL PIPES, VALVES, EQUIPMENT AND INSTRUMENTS HAVE SYSTEM PREFIX CO. UNLESS NOTED OTHERWISE.
 3. MISCELLANEOUS VENTS AND DRAINS FOR CO SYSTEM ARE SHOWN ON DRAWINGS 20428 THRU 20430.
 4.  - INDICATES REVISION LEVEL.

4	4/7/05	BCS	GPS	604	INCOMP. DCR 97-13 DCN 08, DCR 04-004 DCN 08
3	11/15/96	MPW	BCS	JCH	INCOMP. DCR 92-24 CA 5
2	1/21/87	MPW	WRD	WVS	REVISED PER LATEST SYSTEM DRAWINGS.
1	5/16/86	DWS	JDM	WFD	ADDED NOTE 3 & 4
0	1/13/86	DWS	TAK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station



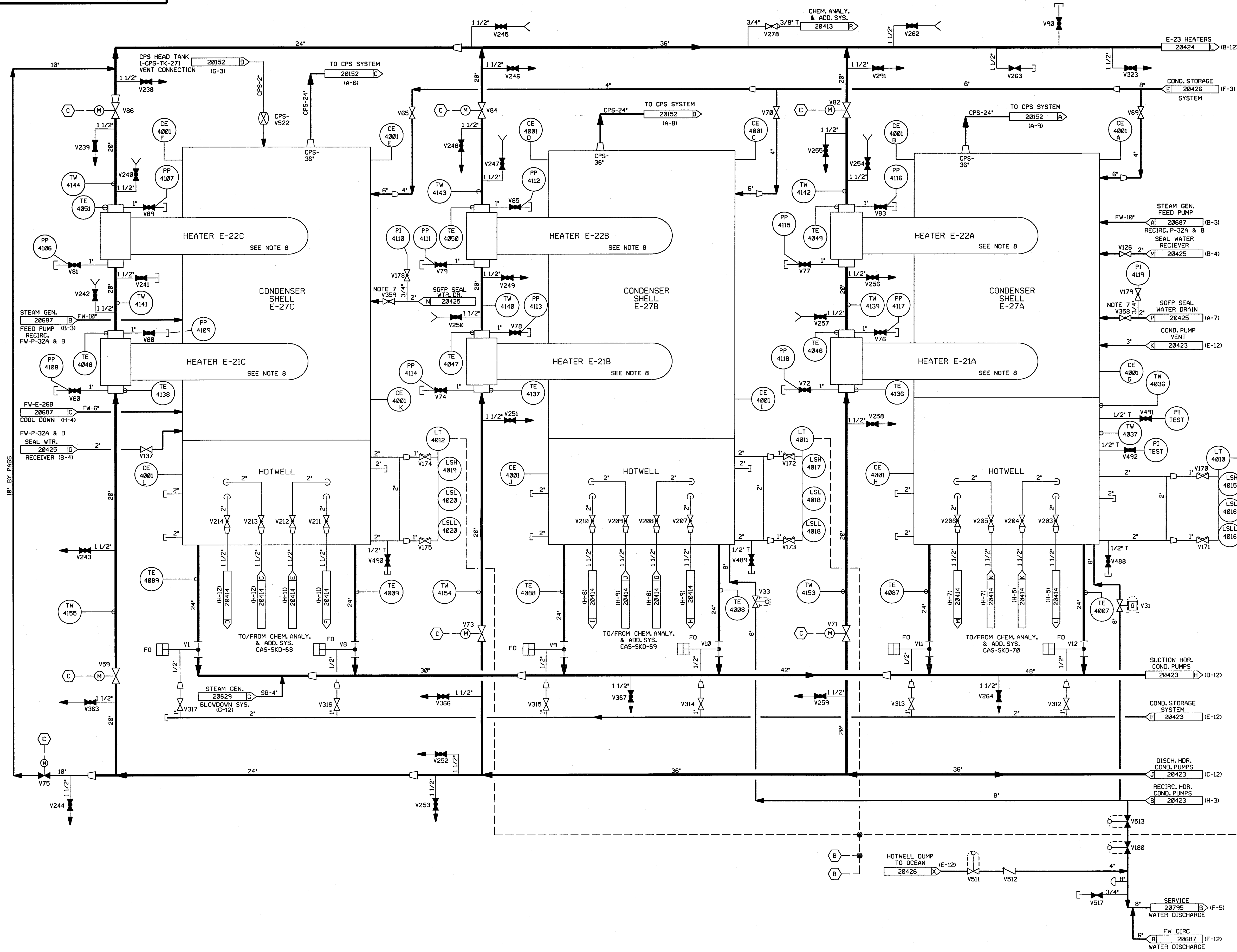
CONDENSATE SYSTEM OVERVIEW

PID- 1-CO-B20420

9763-F-282882	13	HEATER DRNS. SHT 1 OF 2
9763-F-282883	14	HTR. DRNS. PAID SHT 1 OF 2
9763-F-282899	19	COND. CLEAN & CHEM. FEED SYS. P & ID
9763-F-282878	12	COND. SYS. P & ID SHT. 2
9763-F-282877	18	COND. SYS. P & ID SHT. 1
RFF. DRAWING NO.	REV	TITLE

PID-1-CO-B20422

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 20420, 20423 THRU 20427.
 2. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CO, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
(B) TO COND. STORAGE SYSTEM, 1-CO-LV-4014A & B ON DWG CO-20426.
(C) HIGH-HIGH LEVEL TO CLOSE RESPECTIVE HEATER COND. INLET TO NO.1 & OUTLET OF NO.2 WHILE OPENING BYPASS VALVE 1-CO-V75.
 5. DELETED
 6. △ - INDICATES REVISION LEVEL
 7. VALVES 358 & 359 TO BE MAINTAINED IN A THROTTLED POSITION TO PROVIDE A 60 PSIG NOMINAL BACK PRESSURE.
 8. FOR OTHER NOZZLES ON HEATERS 1-CO-21A,B&C AND 1-CO-E-22A,B&C SEE PID'S

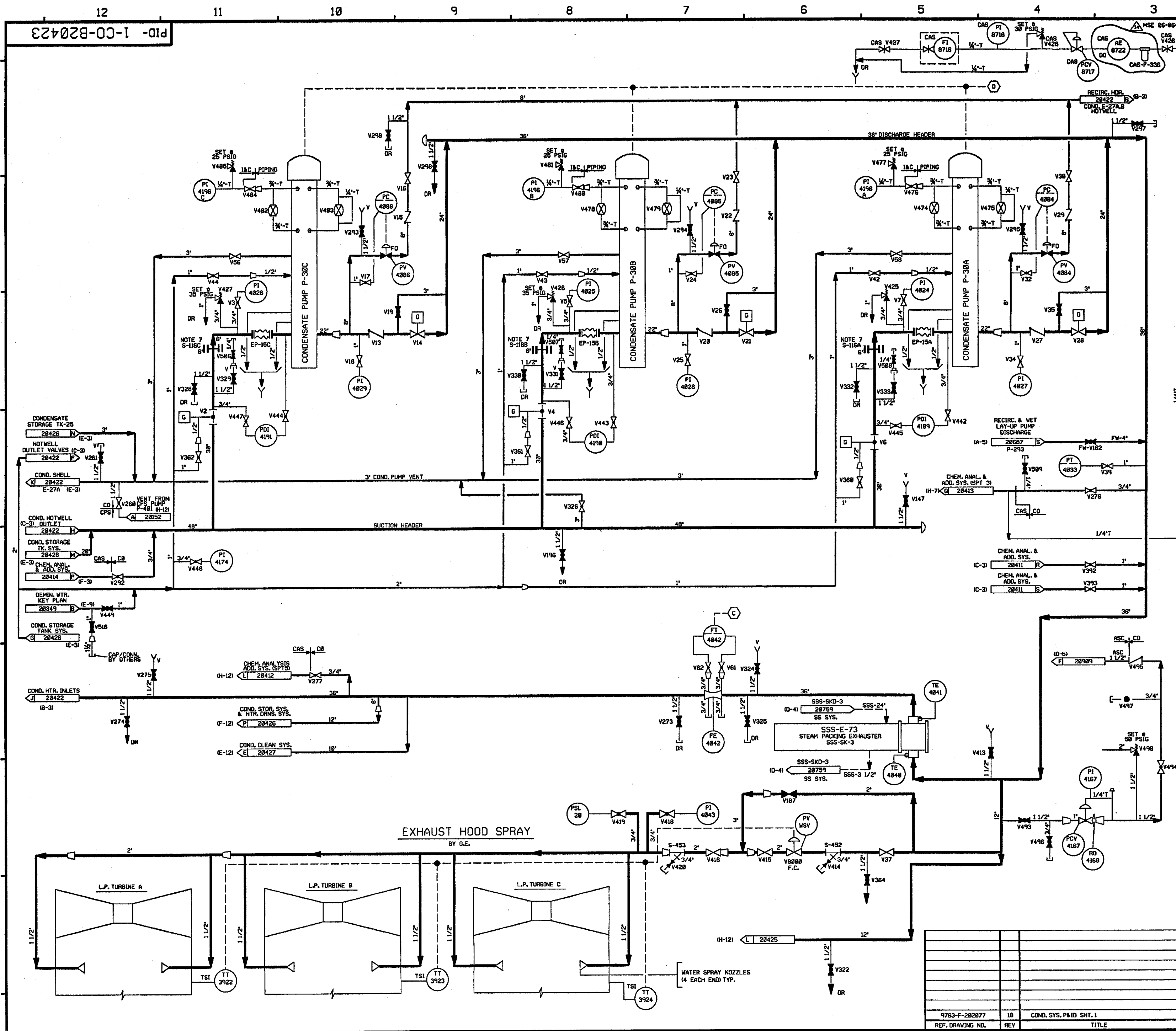
18	7-12-07	BCS	JW	20422	INCORP CR 07-05581 REV. 0
17	4/20/05	BCS	JM	PAL	INCORP DCR 97-13 DCN-00, 60, 222
16	10/14/03	MPW	JM	SAK	PARTIAL INCORP DCR 97-013 DCN 00.
15	4/03/03	BCS	JM	MPW	INCORP DCR 03-01559 REV. 0
14	5/25/02	BCS	JM	RRB	INCORP MMOD 00-0533 DCN*01
13	5/17/02	JM	MPW	ICW	INCORP MMOD 00-0533 DCN*00
12	10/01/01	BCS	MPW	DJM	INCORP MSE 99-0161 REV. 0
11	11/14/00	MPW	BCS	DJM	INCORP DCR 95-0038 DCN 00 & 32
10	4/12/99	RWS	BCS	MKC	INCORP DCR 97-0044 DCN 07
9	6/28/97	MPW	DWS	WNF	INCORP MMOD 96-583 DCN 01, DCR 92-69 DCN 00, 01 & 05, PARTIAL INCORP DCR 95-38 DCN 00
8	2/28/96	DWS	BCS	VWS	INCORP MMOD 940574 CA*0
7	4/18/94	MPW	BCL	MPW	INCORP MMOD 93-554 CA0
6	4/5/93	MRB	DWS	JCM	INCORP MMOD 92-553 CA0
5	4/23/92	MRB	BCL	JEV	INCORP MMOD 91-515 CA0
4	9/17/91	MRB	JM	IW	INCORP MMOD 90-647 CA0
3	10/23/87	MPW			INCORP DCR 87-125 & 87-142, REVISED NOTE 3.
2	10/3/86	PAL	MAP	RRC	ADDED LEGEND DWG NOTE, REVISED VENT & DRAIN SYMBOLS INCORPORATE ECA 96/10861A REV'D CONTINUATION REFS., ADDED NOTE 7.
1	5/16/86	OPD	JDM	WFD	ADDED NOTE 6 AND REVISED CONTINUATIONS
0	1/13/86	DWS	TAK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station

CONDENSATE SYSTEM
DETAIL

PID-1-CO-B20422

9763-F-202401	6	CIRCULATING WATER P & ID
9763-F-202077	18	COND. SYS. P&ID SHT 1
REF. DRAWING NO.	REV	TITLE

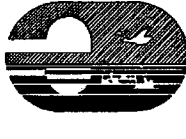


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20420, 20422 & 20424 THRU 20427.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CO, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
 - (C) TO COND. STORAGE SYS. 1-CO-FY-4842 ON DWG. 20425.
 - (D) TO FEEDWATER PUMP SUCTION 1-CO-PSL-4834 & 4835 DWG. CO-20425.
 5. △ - INDICATES REVISION LEVEL.
 6. DELETED
 7. PERMANENT SPOOL PIECE INSTALLATION IS SHOWN. STRAINER IS USED DURING INITIAL OPERATION. STRAINER CAN BE REMOVED FOLLOWING CO SYSTEM CLEAN-UP.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
14	8/1/86	JM	WAP		INCORP MSE 86-864 REV 00
13	4/15/85	BCS	JM		INCORP DCR 97-13 DCN-00
12	5/16/82	JM	WAP		INCORP MMD 88-8533 DCN-00 & *25
11	2/4/82	BCS	JM		INCORP MSE 81-8174 REV. 00
10	7/26/80	MPW	DWS		INCORP MMD 87-637 DCN 00
9	6/7/79	BCS	MPW		INCORP DCR 92-31 CAB4
8	11/13/95	BCL	MPW		REVISED PER ISO CO-4053-34
7	5/18/95	BCL	MPW		INCORP DCR 92-31 CAB & 03
6	5/2/94	BCL	MPW		INCORP DCR 92-24 CAB & 1
5	8/19/93	MRB	BCL		INCORP MMD 92-589 CAB
4	5/17/91	MRB	JM		INCORP MMD 90-647 CAB2 & MMD 89-616 CAB
3	12/29/89	MRB	APL		INCORPORATED DCR 89-47 CAB2 REVISED NOTES 2 AND 3 ADDED SSS-SYSTEM INTERFACE FOR CLARITY
2	10/30/86	PAL	WRD		REVISED LINE SIZES TO EXL HOOD SPRAY PER G.E. FP-2895L ADDED INSTRUMENTATION & LINE NPS PER UMAC PAID. PI WAS PI IN ERROR ADDED ZONE LOCATIONS TO FLAGS DELETED NOTE 6, UPDATED REV. BLOCK.
1	5/27/86	OPD	JDM		ADDED EXHAUST HOOD SPRAY AND CONTINUATIONS, NOTE 5 INCORP. CHG ITEM #1 PER 202877-R17
0	1/13/86	DWS	TAK		ISSUED FOR OPERATIONS

FPL ENERGY
Seabrook Station

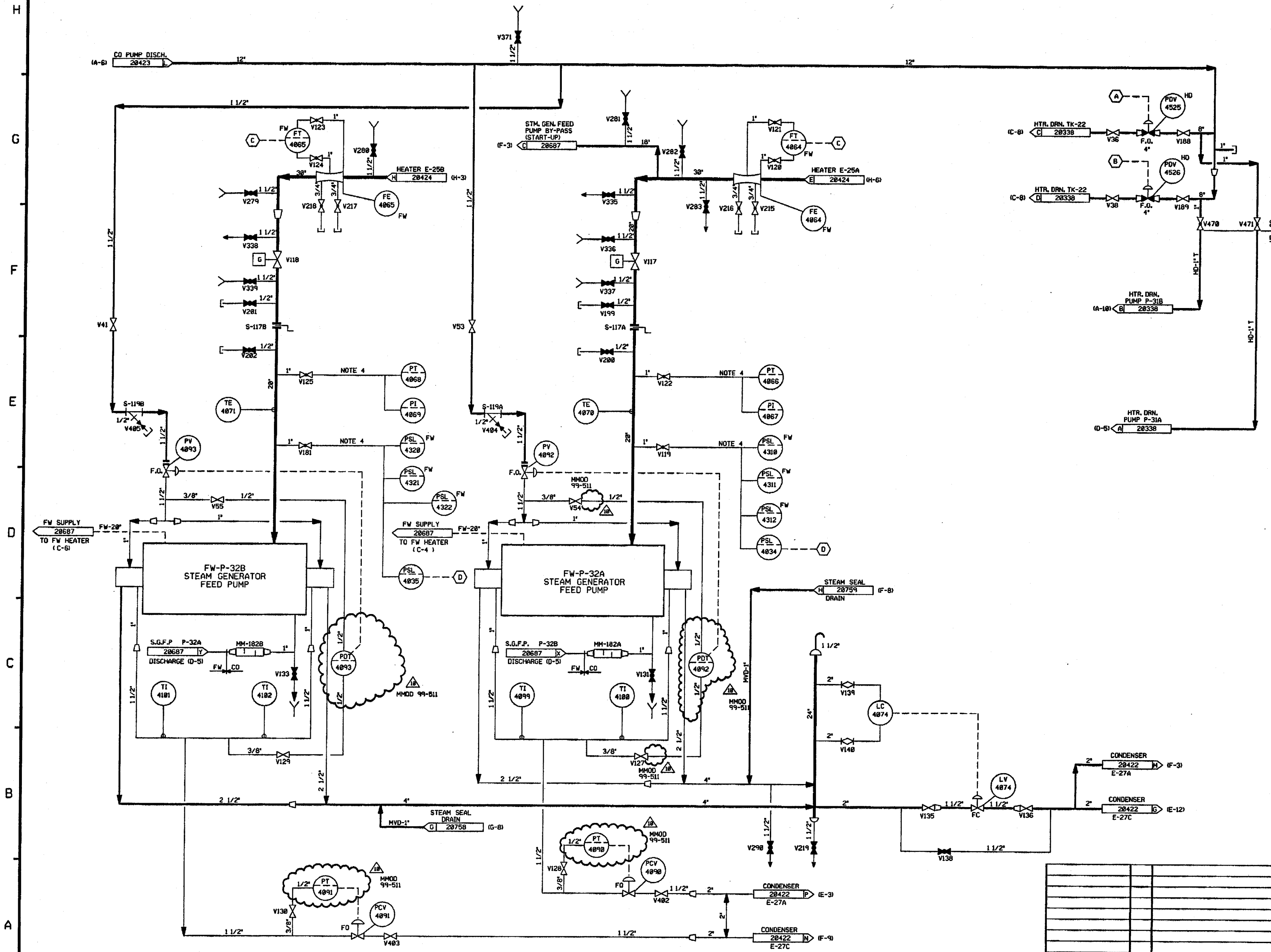
**CONDENSATE SYSTEM DETAIL**

PID- 1-CO-B20423

9763-F-202877	18	COND. SYS. P&ID SHT. 1
REF. DRAWING NO.	REV	TITLE

PID-1-CO-B20425

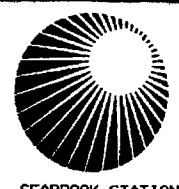
FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20420, 20422, 20423, 20424, 20426 THRU 20430.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX CO UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. REFERENCE TEST LOOP DWGS. FOR VALVE I.D.
 5. INSTRUMENTATION REFERENCES:
 - (A) FROM HD-PDY-4525-2 LOCATED IN HD-CP-551.
 - (B) FROM HD-PDY-4526-2 LOCATED IN HD-CP-551.
 - (C) TO RECIRCULATING VALVES FW-4064 & 4065.
 - (D) TO CONDENSATE PUMP MOTORS 1-CO-P-30A, B&C ON DWG. CO-20423.
 6. Δ - INDICATES REVISION LEVEL

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
10	11/11/00	MRB	---	MRB	DWS	GRM	INCORP. MMOD 99-511 DGN 00
9	8/10/99	MRB	---	BCL	DWS	GRM	INCORP. MMOD 92-053 C&B1
8	11/16/92	MRB	---	BCL	DWS	JM	INCORP. MMOD 91-552 C&B & DCR 91048 C&B
7	1/20/90	MRB	---	BCL	DWS	RRB	INCORP. MMOD 91-622 C&B
6	9/17/90	MRB	FCB	JM	GPM	IM	INCORP. MMOD 90-647 C&B
5	8/2/90	MRB	RNC	FCB	DWS	WFD	INCORP. DCR 89-47 C&B4
4	5/5/89	MRB	JM	GPM	PAL	GRM	REVISED CONTINUATION REFERENCE, ADDED PAID LEGEND REF. NOTE.
3	3/4/87	OPD	TAK	MRJ	BCL	RRC	ADDED DRAIN & VENT SYMBOLS, ADDED CONTINUATION REFERENCES, REV'D TO INC. PIPING ERECTION ISO. 1-CO-4049-57
2	4/17/86	BCL	TAK	MAP	VNK	RRC	ADDED CONTINUATIONS & NOTE 6.
1	2/16/86	OPD	SKN	JDM	DFM	WFD	ADDED CONTINUATIONS & NOTE 6.
0	1/13/86	DWS	MRB	TAK	DHF	WFD	ISSUED FOR OPERATIONS

North Atlantic Energy Service Corporation



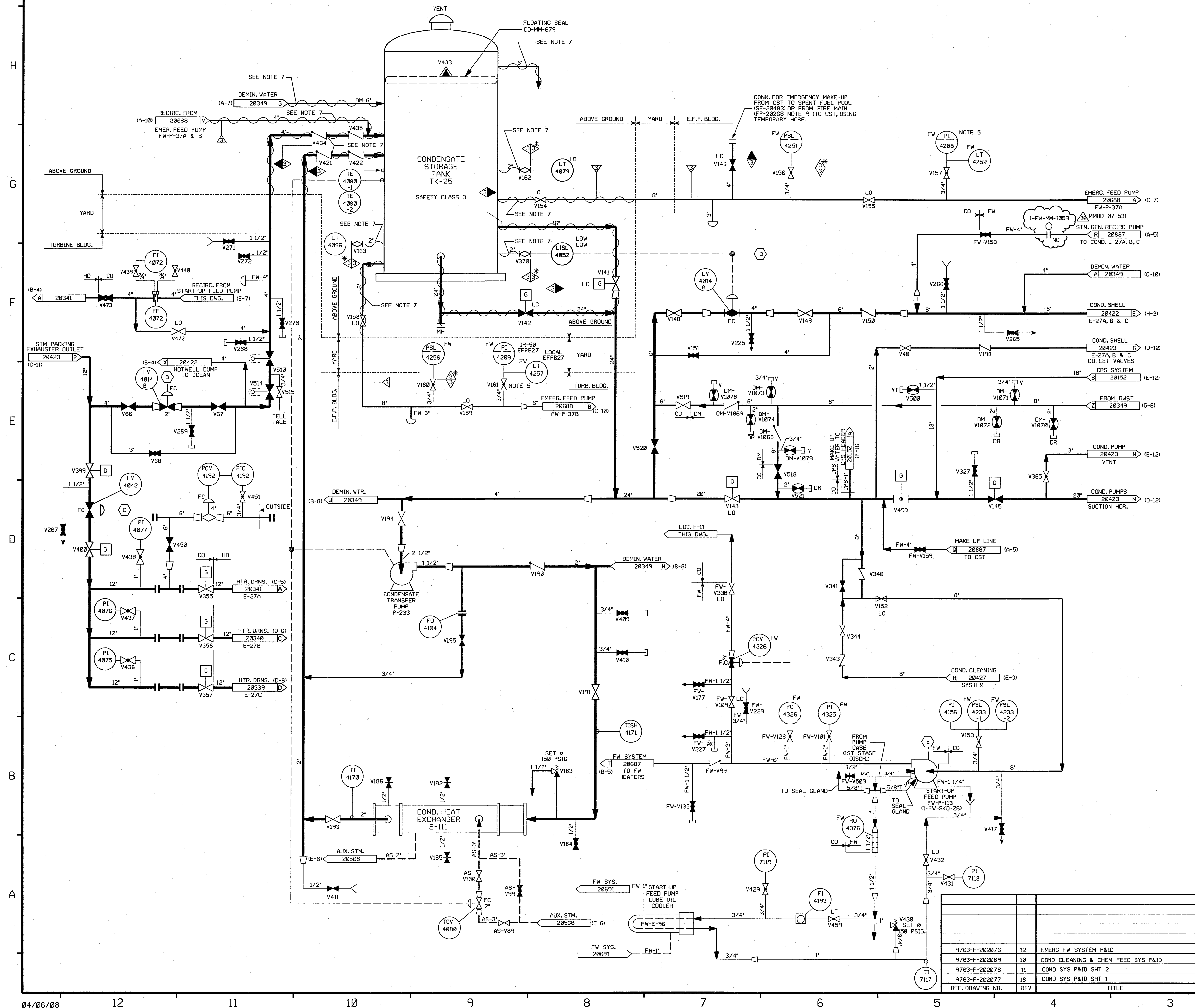
CONDENSATE SYSTEM
DETAIL

PID-1-CO-B20425

REF. DRAWING NO.	REV	TITLE
9763-F-202083	14	HTR. DRN. SYS. PAID SHT. 2 OF 2
9763-F-202089	10	COND. CLEANING & CHEM. FEED SYS. PAID
9763-F-202070	11	COND. SYS. PAID SHT. 2
9763-F-202077	16	COND. SYS. PAID SHT. 1

PID-1-CO-B20426

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



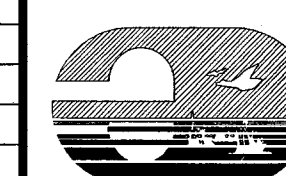
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20420, 20422, 20423, 20424, 20425 & 20427.
 2. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX CO, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS, UNLESS NOTED OTHERWISE.
 4. INSTRUMENTATION REFERENCES:
(B) TO COND HOTWELL, 1-CO-LT-4010, 4011, 4012 DWG 20422.
(C) TO STEAM PACKING EXHAUSTER VENTURI, 1-CO-FT-4042 ON DWG 20423.
(E) LUBE OIL PIPING FROM FW-P-161
 5. REF TEST LOOP DIAGRAM FOR VALVE I.D..
 6. Δ - INDICATES REVISION LEVEL.
 7. HEAT TRACING HAS BEEN DISCONNECTED AND IS NONFUNCTIONAL.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
30	4/25/08	JM	BS	DM	INCORP MMOD 07-531 DCN 00
29	3/14/07	BCS	JM	RRB	INCORP MSE 06-132 REV. 0
28	11/1/06	JM	BCS	RRB	INCORP MMOD 03-504 DCN 00
27	4/30/05	BCS	JM	DJM	INCORP DCR 97-013 DCN 00, 174 INCORP DCR 04-004 DCN 00 & 06
26	11/24/03	BCS	MPW	HWM	INCORP CR 03-05429
25	10/14/03	MPW	BCS	SAK	PARTIAL INCORP. DCR 97-013 DCN 00
24	7/11/02	MPW	JM	IW	INCORP DCR 95-038 DCN 00 & 38 MMOD 00-533 DCN 00
23	3/14/02	JM	MPW	DJM	INCORP MSE 00-189 REV. 0
22	10/01/01	BCS	MPW	DJM	INCORP MSE 00-233 REV. 0
21	6/9/99	DWS	RWS	DJM	INCORP MMOD 97-618 DCN 00
20	1/2/98	DRL	MPW	VWS	INCORP MMOD 96-550 DCN 02

FPL ENERGY

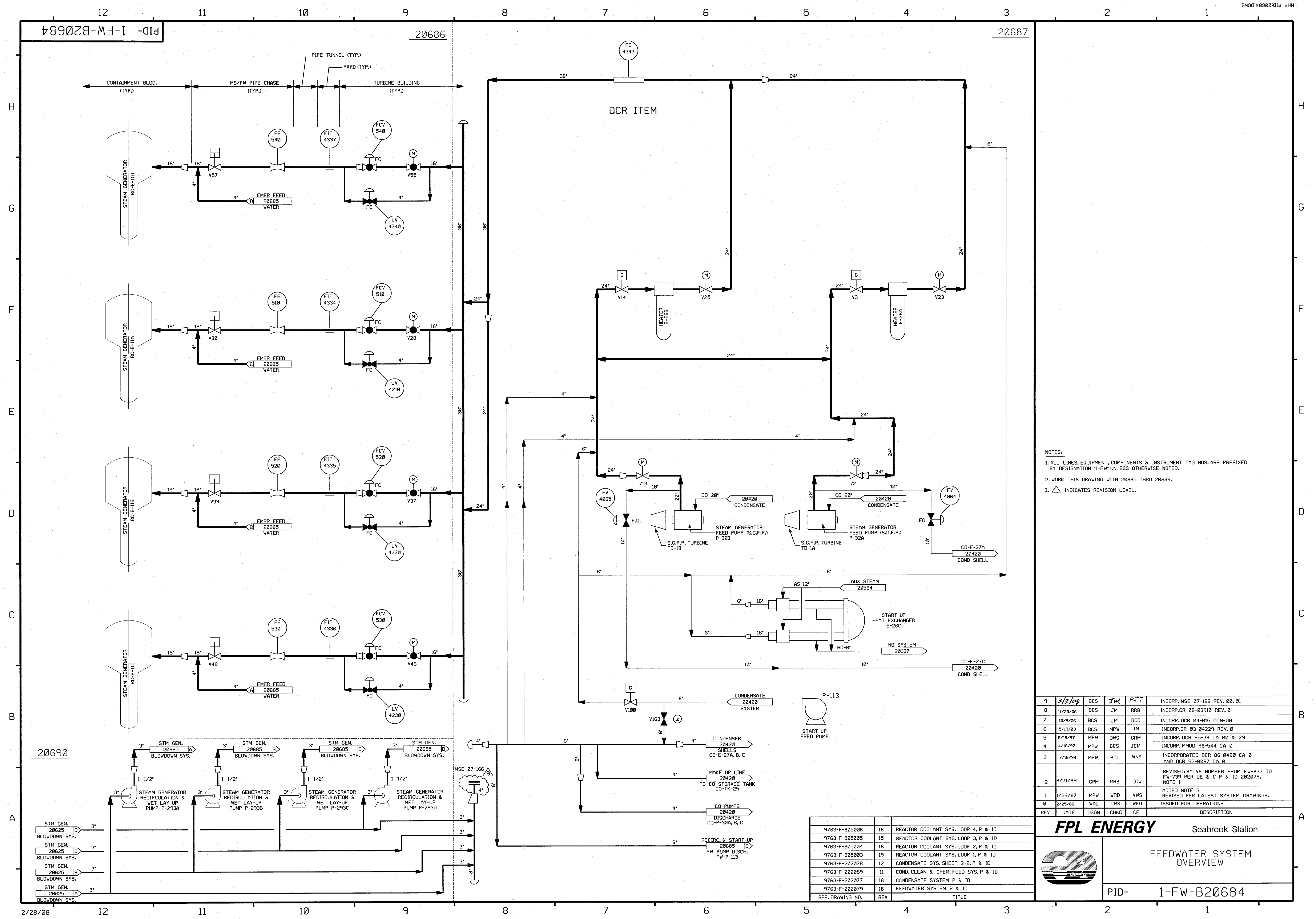
Seabrook Station



CONDENSATE SYSTEM
DETAIL

PID- 1-CO-B20426

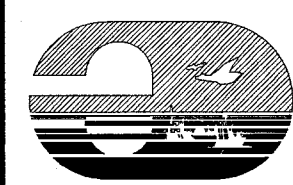
REF. DRAWING NO.	REV	TITLE
9763-F-202076	12	EMERG. FW SYSTEM P&ID
9763-F-202089	10	COND. CLEANING & CHEM FEED SYS P&ID
9763-F-202078	11	COND. SYS P&ID SHT. 2
9763-F-202077	16	COND. SYS P&ID SHT. 1



NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENT TAG NOS. ARE PREFIXED BY DESIGNATION "1-FW" UNLESS OTHERWISE NOTED.
2. WORK THIS DRAWING WITH 20685 THRU 20689.
3. Δ INDICATES REVISION LEVEL.

9	3/3/89	BCS	JM	PJT	INCORP. MSE 07-166 REV. 00. 01
8	11/28/86	BCS	JM	RRB	INCORP. DCR 06-03910 REV. 0
7	18/9/86	BCS	JM	RCD	INCORP. DCR 04-015 DCN-00
6	5/19/83	BCS	MPW	JM	INCORP. DCR 03-04229 REV. 0
5	6/18/97	MPW	DWS	CRM	INCORP. DCR 95-39 CA 00 & 29
4	4/16/97	MPW	BCS	JCM	INCORP. MMOD 96-544 CA 0
3	7/18/94	MPW	BCL	WNF	INCORP. DCR 86-0420 CA 0 AND DCR 92-0067 CA 0
2	6/21/89	GPM	MRB	ICW	REVISED VALVE NUMBER FROM FW-V33 TO FW-V39 PER UE & C P & ID 202079, NOTE 1
1	1/29/87	MPW	WRD	VWS	ADDED NOTE 3
0	2/25/86	WAL	DWS	WFD	REVISED PER LATEST SYSTEM DRAWINGS.
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

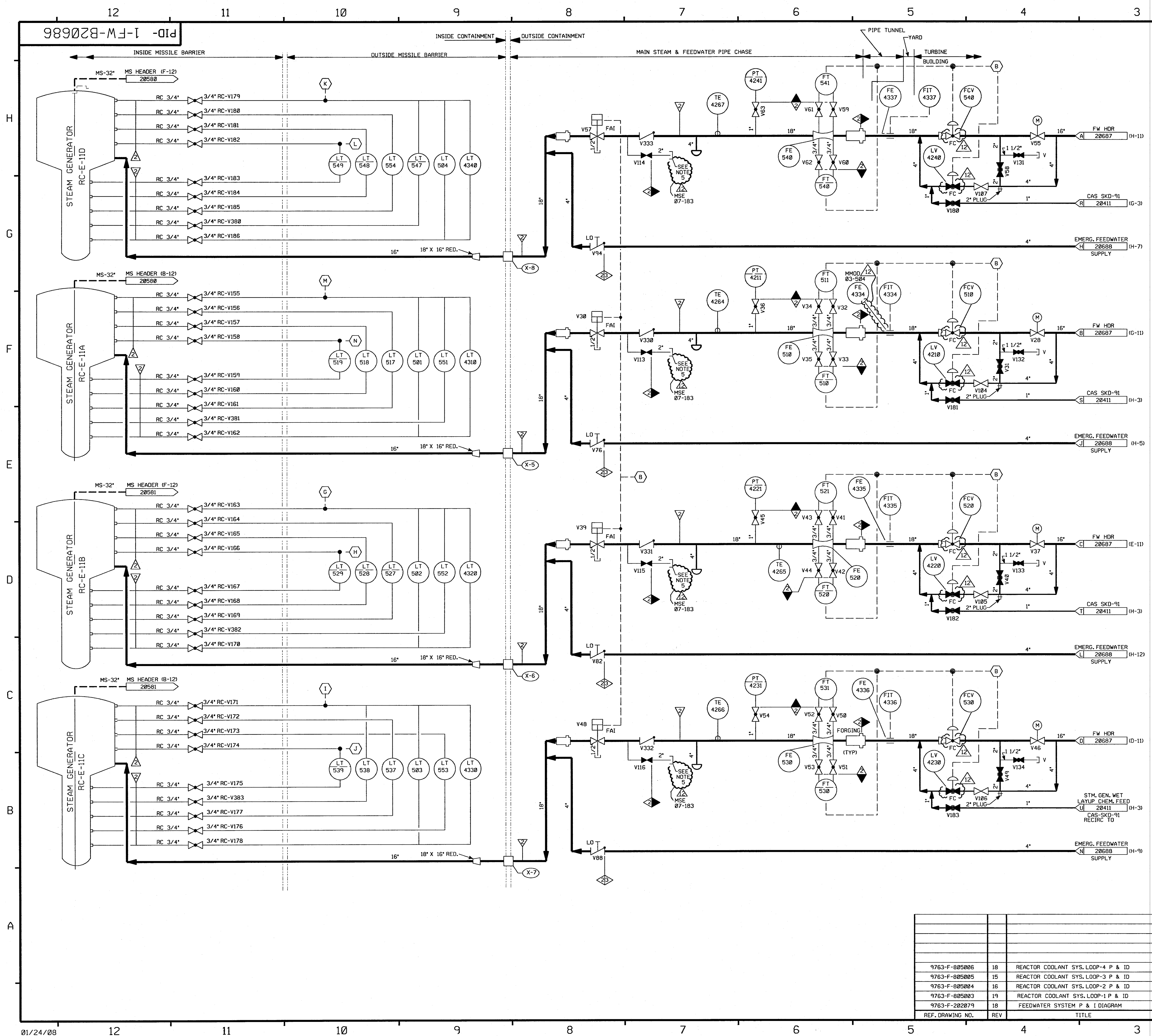
FPL ENERGY Seabrook Station



FEEDWATER SYSTEM OVERVIEW

PID- 1-FW-B20684

9763-F-805006	18	REACTOR COOLANT SYS. LOOP 4, P & ID
9763-F-805005	15	REACTOR COOLANT SYS. LOOP 3, P & ID
9763-F-805004	16	REACTOR COOLANT SYS. LOOP 2, P & ID
9763-F-805003	19	REACTOR COOLANT SYS. LOOP 1, P & ID
9763-F-202070	12	CONDENSATE SYS. SHEET 2-2, P & ID
9763-F-202089	11	COND. CLEAN & CHEM. FEED SYS. P & ID
9763-F-202077	18	CONDENSATE SYSTEM P & ID
9763-F-202079	18	FEEDWATER SYSTEM P & ID
REF. DRAWING NO.	REV	TITLE



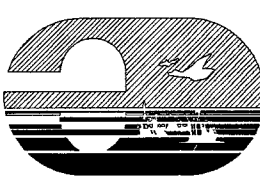
FOR P&ID REFERENCE, DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID-LEGEND 1 AND P&ID-LEGEND 2.

- NOTES:
1. PIPING, VALVES, EQUIPMENT & INSTRUMENT TAG NOS. ARE PREFIXED BY DESIGNATION "1-FW", UNLESS OTHERWISE NOTED.
 2. WORK THIS DWG. WITH 20684, 20685, 20687 & 20688.
 3. INSTRUMENT IDENTIFICATION
(B) PROTECTION SYS. FW ISOLATION SIGNAL.
(G) TO FT-523 ON DWG. 1-MS-20581
(H) TO FT-522 ON DWG. 1-MS-20581
(I) TO FT-533 ON DWG. 1-MS-20581
(J) TO FT-532 ON DWG. 1-MS-20581
(K) TO FT-542 ON DWG. 1-MS-20588
(L) TO FT-543 ON DWG. 1-MS-20588
(M) TO FT-512 ON DWG. 1-MS-20588
(N) TO FT-513 ON DWG. 1-MS-20588
 4. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-000111 UNLESS NOTED OTHERWISE.
 5. CONNECTION USED FOR PRE-PLANNED MAKEUP STRATEGY. SEE FPS9989.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

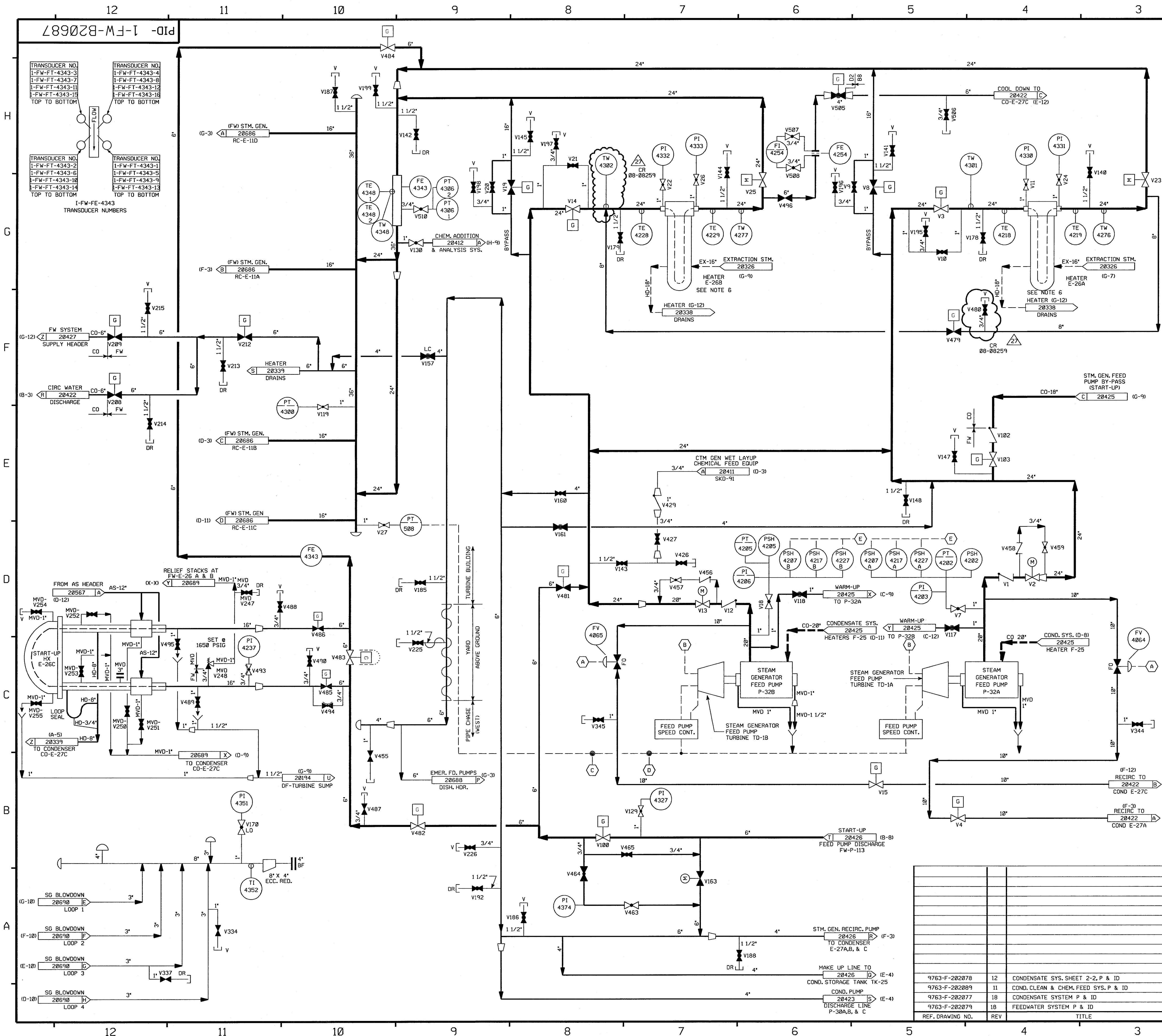
12	1-31-08	JM	GPS	qyf	INCORP. MMOD 03-504 DCN 00, MSE 07-183 REV 00 & CHANGED VALVE SYMBOLS
11	11/8/00	BCS	MPW	ARB	INCORP. DCR 98-31 DCN 00
10	4/27/99	RWS	BCS	HWM	INCORP. DCR 96-0028 DCN 00
9	6/02/98	DRL	BCS	VNS	INCORP. MMOD 97-521 DCN 00
8	11/27/95	MPW	BCS	HWM	INCORP. DCR 95-42 CA0
7	7/19/94	BCL	DWS	WHF	INCORP. MMOD 92-67 CA0
6	3/11/94	MRB	BCL	GRM	INCORP. MMOD 92-553 CA01
5	4/20/92	MRB	BCL	RRB	INCORP. MMOD 91-515 CA0
4	9/27/88	GPM	APL	---	REVISED: PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES. LOC OF CLASS BREAK FOR CLARIFICATION. DELETED NNS-1 CL BOUNDARY. CORRECTED INSTR CONN PER REVIEW OF DWG 0802008. ADDED LEGEND NOTE & CONT DWG CORR'S. UPDATED REF DWG REV'S.
3	11/4/86	JDM	WRD	RRR	REV'D TO REFLECT AS-BUILT CONFIG.
2	8/22/86	JDM	WRD	PHH	ECA 05/103386B
1	6/16/86	TAK	DWS	RRR	ISSUED FOR OPERATIONS
0	2/24/86	WAL	DWS	WFD	
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGYSeabrook Station

FEEDWATER SYSTEM
DETAILS

PID-1-FW-B20686

9763-F-805006	18	REACTOR COOLANT SYS. LOOP-4 P & ID
9763-F-805005	15	REACTOR COOLANT SYS. LOOP-3 P & ID
9763-F-805004	16	REACTOR COOLANT SYS. LOOP-2 P & ID
9763-F-805003	19	REACTOR COOLANT SYS. LOOP-1 P & ID
9763-F-202879	18	FEEDWATER SYSTEM P & I DIAGRAM
REF. DRAWING NO.	REV	TITLE



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

- NOTES:
- WORK THIS DRAWING WITH 20684 THRU 20686 & 20688, 20689 & 20990.
 - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "FW", UNLESS OTHERWISE NOTED.
 - INSTRUMENT REFERENCES:
 - (A) FEEDWATER PUMP FLOW (LOW)
 - (B) PROTECTION SYS. FW ISOLATION SIGNAL
 - (C) MAIN STEAM HEADER PRESSURE
 - (D) TOTAL STEAM FLOW
 - (E) TRIPS FEEDWATER PUMPS ON 2/3 HIGH PRESSURE
 - ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS OTHERWISE NOTED.
 - △ INDICATES REVISION LEVEL.
 - FOR OTHER NOZZLES ON HEATERS 1-FW-E-26A&B SEE PID'S:
 - EX-20326
 - FW-20689
 - HD-20338
 - MD-20475

27	7/29/08	GPS	JM	QW	INCORP CR 08-08259 & REINCORP DCR 95-0039 CA 00
26	4/25/08	JM	BCS	DJM	INCORP MMD 07-531 DCN 00
25	3/3/08	BCS	JM	PJT	INCORP MSE 07-166 REV. 00, 01
24	11/20/06	BCS	JM	RRB	INCORP CR 06-03910 REV. 0
23	10/09/06	BCS	JM	RCD	INCORP DCR 04-015 DCN 00
22	12/1/05	BCS	JM	HWM	INCORP MMD 05-518 DCN-03
21	2/14/02	MPW	BCS	DJM	INCORP. ECA 73/5270A
20	10/6/00	DWS	MPW	JCM	INCORP MMD 980594 DCN*00
19	4/11/99	RWS	BCS	MKC	INCORP DCR 97-0044 DCN 00
18	2/23/99	BCS	DWS	MKC	INCORP MMD 98-636 DCN-00
17	9/18/97	BCS	MPW	GG	INCORP DCR 96-594 DCN-0
16	7/17/97	MPW	BCS	GRM	INCORP DCR 95-39 DCN 49
15	6/18/97	MPW	DWS	GRM	INCORP DCR 95-39 CA 29 & DCN 39
14	4/16/97	MPW	BCS	JCM	INCORP MMD 96-544 CA0
13	12/2/95	MPW	BCS	RJF	INCORP DCR 95-39 CA 0, 1 & 6
12	7/18/94	MPW	BCL	JCM	INCORP DCR 86-420 CA 0
11	4/5/93	MRB	DWS	JCM	INCORP MMD 92-553 CA0
10	10/27/92	MRB	BCL	IW	INCORP DCR 91-57 CA0
9	9/2/92	MRB	DWS	DJM	INCORP. MMD 90677 CA 5
8	4/20/92	DWS	BCL	DJM	INCORP. MMD 90677 CA 1, 2 & 3
7	9/25/91	GPM	JM	DJM	INCORP. DCR 91-049 CA0 PARTIAL INCORP. OF MMD 90-677 CA0 REVISED NOTES 1, 2, 3 & 4
6	5/30/91	MRB	RMC	IW	INCORPORATED MMD 90-588 CA0
5	3/29/90	MRB	APL	RSQ	INCORPORATED DCR 89-21 CA REVISED INSTR. PER SIS VERIFICATION
4	10/30/87	MPW	BCL	PAS	REV'D NOTE 2.4 DWG. CONT. DELETED/REPLACED VALVES, PIPING & ECA IN THIS SUPERSEDED BY DCR 86-420
3	5/14/87	MPW	DWS	MJY	INCORP DCR 87-176. REVISED PER UE&C P&ID, ADDED NOTE 5, REVISED TO CLARIFY DUPLICATION OF SYSTEMS. REINCORP. ECA 99/112343A, ADDED 10CA. DESIGNATION TO CONTINUATIONS. REV'D SIZE OF FV-4064 & FV-4065 FROM 6" TO 10" DELETED VENTS (V136, V137, V138, V139) PER ECA 19/113318, EXPANDED SB INTAKE HEADER AREA FOR CLARITY.
2	10/9/86	PAL	MAP	RRC	INCORP. ECA 19/082798 99/112343A AND 99/116083A, CORRECTED PUMP NO. 293, APPROP'D CHANGE ITEM #1 PER 2020/9 REV. 18
1	6/20/86	DWS	JDM	RRC	ISSUED FOR OPERATIONS
0	8/24/86	WAL	DWS	WFD	
REV	DATE	DSGN	CHKD	SES	DESCRIPTION

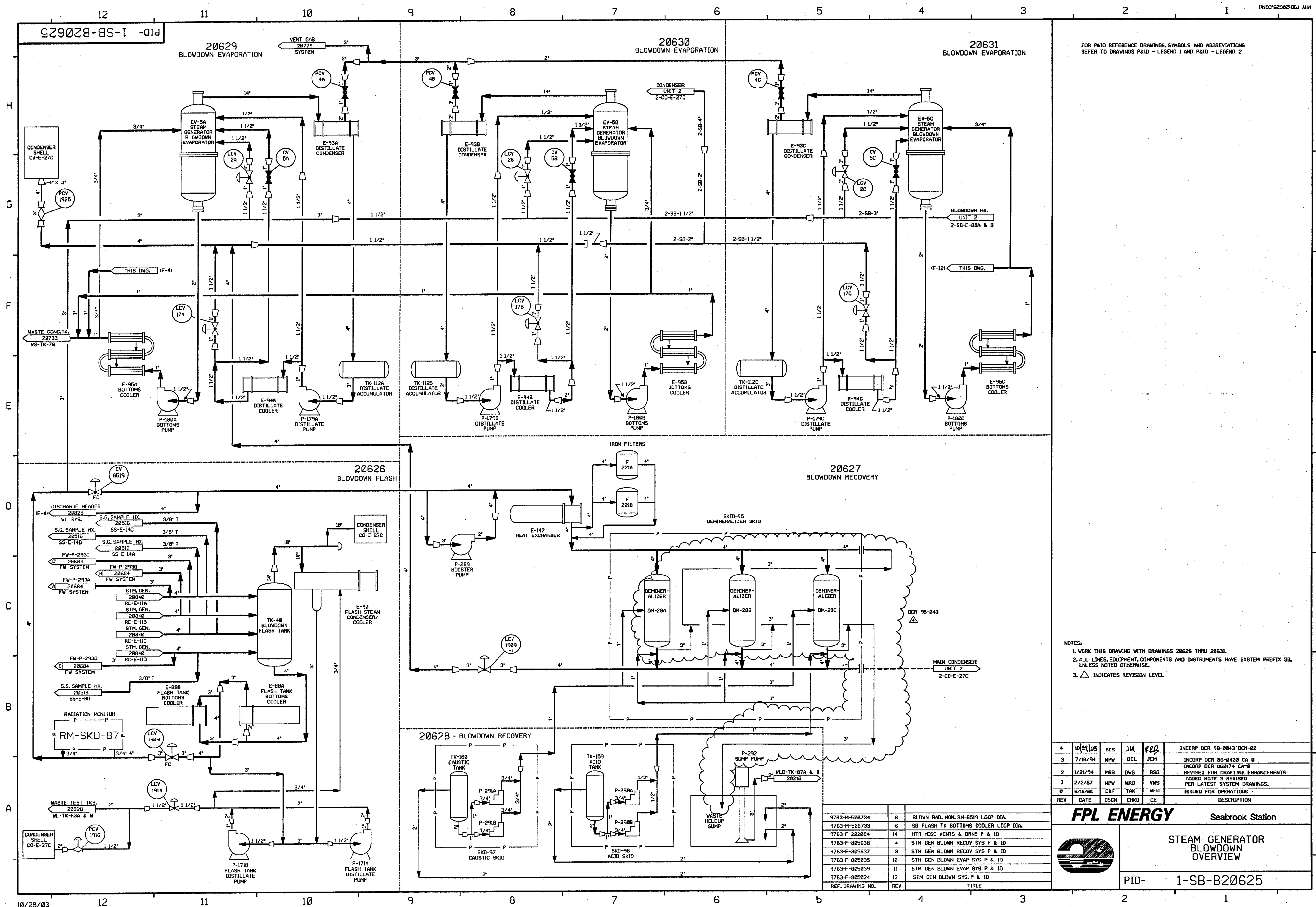
FPL ENERGY

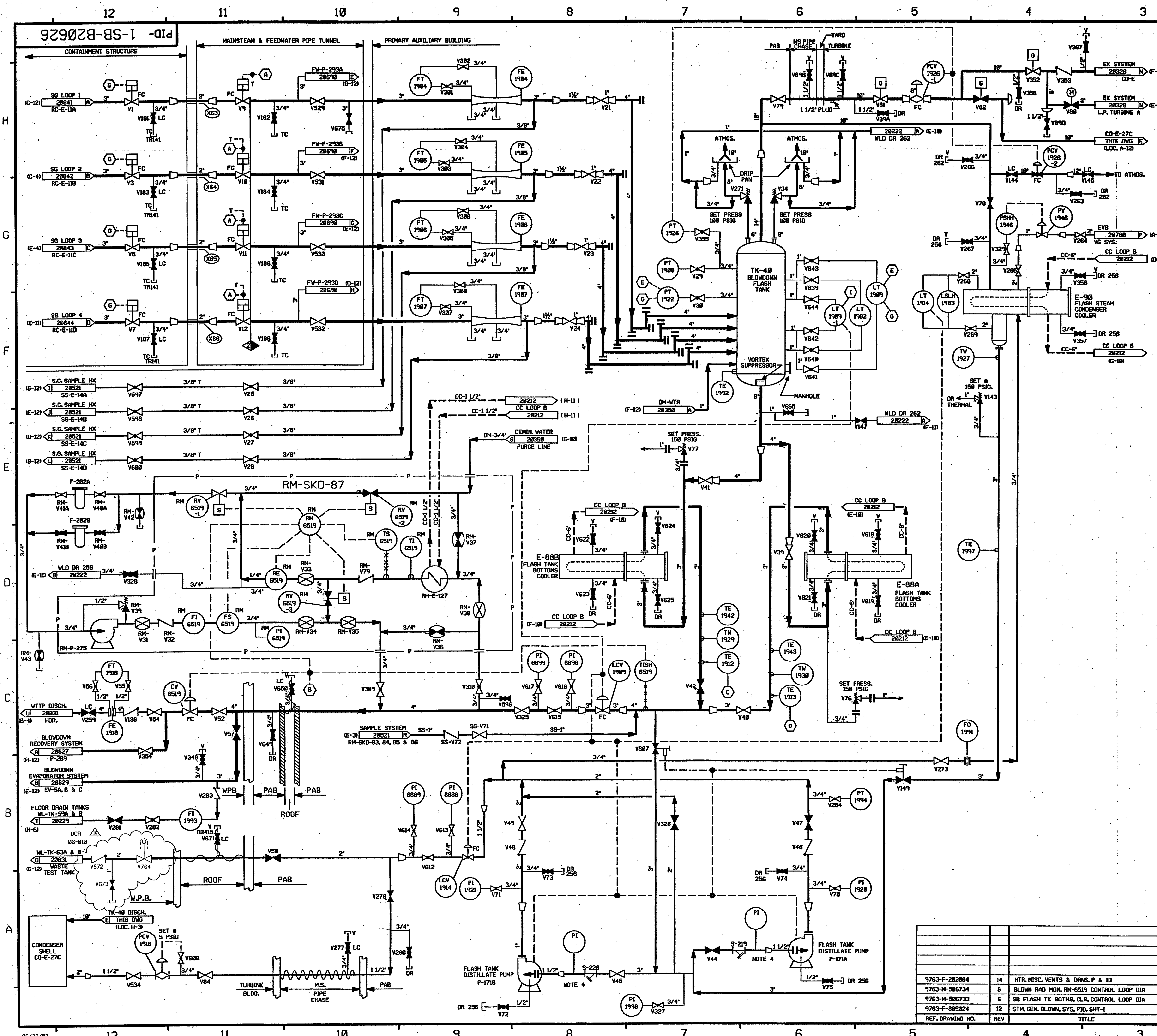
Seabrook Station

FEEDWATER SYSTEM DETAILS

PID-1-FW-B20687

REF. DRAWING NO.	REV	TITLE
9763-F-202078	12	CONDENSATE SYS. SHEET 2-2, P & ID
9763-F-202089	11	COND. CLEAN & CHEM. FEED SYS. P & ID
9763-F-202077	18	CONDENSATE SYSTEM P & ID
9763-F-202079	18	FEEDWATER SYSTEM P & ID





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

- NOTES:
1. WORK THIS DRAWINGS 20625 AND 20627 THRU 20631.
 2. ALL PIPING, VALVES, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
 3. ALL PIPING, VALVES, EQUIPMENT & INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
 4. PROVIDE 3/4" PRESSURE TAP & PLUG FOR P.T.S. START-UP ENGINEERING TO PROVIDE PIPING, VALVES & P.T.S. ALSO STRAINER BLOW-OFF PIPING & VALVES FOR INITIAL OPERATION. STRAINER SCREEN TO BE REMOVED AFTER START-UP.
 5. Δ INDICATES REVISION LEVEL.
 6. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-WY-88011, UNLESS NOTED OTHERWISE.
 7. INSTRUMENT REFERENCES:
 (A) FROM EMERGENCY FEEDWATER PUMPS, CLOSE SIGNAL TO SB-V9 THRU SB-V12.
 (B) FROM RM-RM-6518 THRU 6513 INTERLOCK, DWG 20619 & RM-RM-6519.
 (C) TO TCY-1912 (SB-E-888 OUTLET) ON DWG 20622.
 (D) TO TCY-1913 (SB-E-888 OUTLET) ON DWG 20622.
 (E) TO TCY-1922 (SB-E-98 OUTLET) ON DWG 20622.
 (F) HI HI PR & HI HI LEVEL IN TK-40 TO SHUT SB-V1, V3, V5 & V7.
 (I) TO LCV-1909-1 ON DWG 20627.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

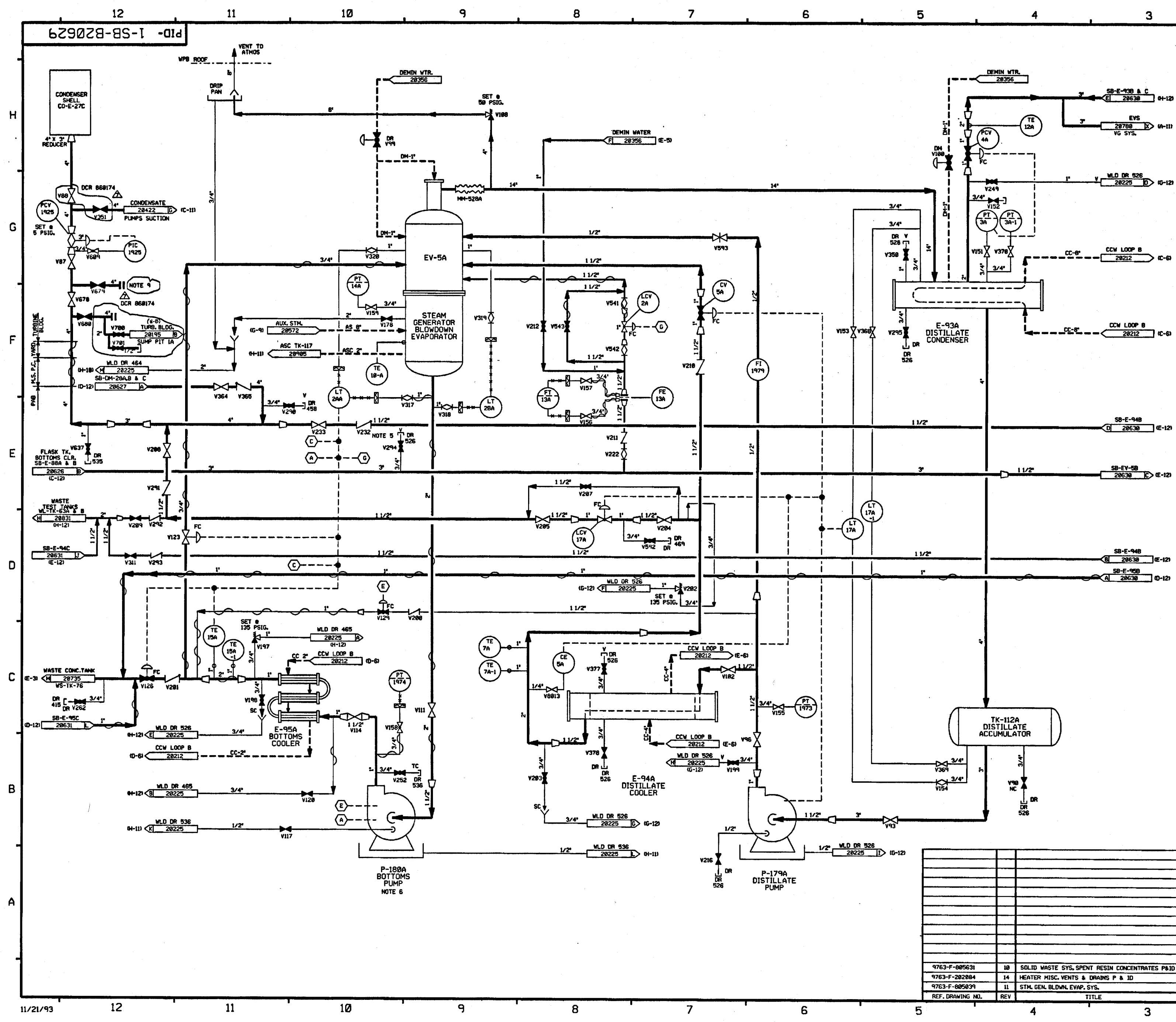
16	7/16/07	BCS	JW	SL	INCORP. DCR 86-018 DCN-08
15	2/14/05	BCS	JM	RAB	INCORP. CR 04-12557 REV. 08
14	4/27/99	RWS	BCS	SPF	INCORP. DCR 98-0802 DCN 08
13	4/18/96	MPV	BCS	BAW	INCORP. M400 94-562 CA 0
12	7/18/94	MPV	BCL	JCM	INCORP. DCR 98-428 CA 0
11	8/25/93	MRB	BCL	JWB	INCORP. DCR 98-39 CA7
10	11/5/92	MRB	BCL	JCM	INCORP. DCR 98-44 CA8
9	7/22/92	MRB	BCL	RSG	INCORP. DCR 98-39 CA7
8	4/23/92	DWS	BCL	RSO	INCORP. M400 98-0616 CA3
7	4/16/92	MRB	BCL	GRM	INCORP. DCR 98-39 CA12, 93 & M400 91-515 CA8
6	1/15/91	MRB	JM	RSH	INCORP. M400 98-556 CA08, M400 98-548 CA08 AND DCR 86-271 CA08
5	5/18/90	MRB	JM	GRM	INCORP. M400 98-545 CA 0 ADDED INSTR. REFERENCE AS NOTE 7
4	9/27/88	GPM	APL	RRC	INCORP. ECA 19/22978 ADDED LINE SIZE NOTE 6 DELETED REF. DRAWINGS
3	12/15/87	PAL	BCL	PAS	INCORPORATED DCR 87-259, ADDED VALVES V136 & V259 PER ERECTION ISO'S. ADDED NOTE 5 & REF. DWG NOTE. REFERENCE SYSTEMS SHOWN IN PHANTOM, REROUTED WALL TO SHOW V658 ON ROOF. REVISED NOTE 3 AND P & ID DRAWING CONT.
2	9/26/86	MAP	BCL	RRC	REVISED REF. DWG REV. REVISED BLDG BOUNDARY IDENT. REVISED TO CLARIFY DESIGNATIONS TO STRAINERS & PUMPS PER ERECTION ISO'S. DELETED SPEC BREAKS, ADDED MANHOLE PER F.P.
1	6/24/86	DWS	VNK	RRC	CHANGE ITEMS Δ & \diamond RESOLVED PER ECA 99/114785A, UPDATED PER UERC PAID. 805824-R12
0	5/15/86	DWS	TAK	WFD	99/114785A 99/111481B INCORP. NCR'S 82/1302A, 82/1215B
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY Seabrook Station

STEAM GENERATOR BLOWDOWN (BLOWDOWN FLASH) DETAIL

PID- 1-SB-B20626

9763-F-202884	14	HTR. MISC. VENTS & DRNS. P & ID
9763-H-506734	6	BLDN RAD MON. RM-6519 CONTROL LOOP DIA
9763-H-506733	6	SB FLASH TK BOTHS. CLR. CONTROL LOOP DIA
9763-F-805824	12	STM. GEN. BLOWN. SYS. PID. SHT-1
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 DRAWING WITH DRAWINGS 28625 THRU 28628, 28638 & 28631.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MNS, UNLESS NOTED OTHERWISE.
 4. FLUSH AND CHEMICAL ADDITION CONNECTION.
 5. NITROGEN PURGE CONNECTION FOR DRY LAY-UP.
 6. SEE DRAWING 28633 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 7. Δ INDICATES REVISION LEVEL.
 8. INSTRUMENTATION REFERENCES
 - (A) LOW LOW EV-5A INTERLOCK WITH P-188A
 - (B) HIGH E-93A OUTLET TEMP., HIGH WS-TK-76 LEVEL AND LOW DISCHARGE EV-5A INTERLOCK.
 - (C) DISTILLATE FLUSH V123, P-188A.
 - (D) EV-5A HI HI LVL. LCV-2A INTERLOCK.
 9. CONNECTION FOR TEMPORARY CST FILL LINE.

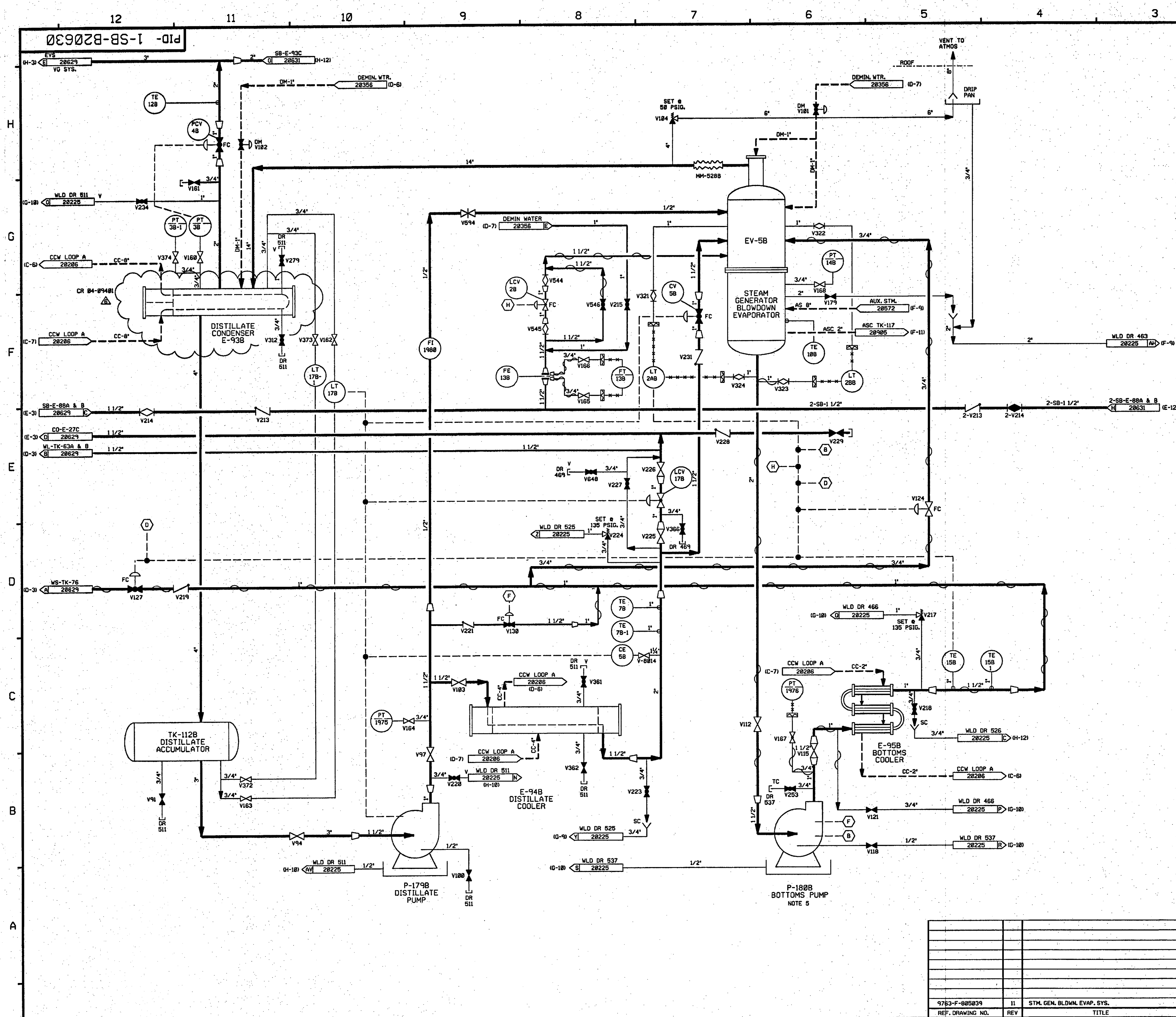
7	11/25/86	BCL		PLD	MLD	RSB	INCORP DCR 868174 CAPS
6	4/28/92	DWS		BCL	MRB	RSB	INCORP. MMD 98-616 CAP
5	12/18/91	MRB	FCB	JM	GPM	GRM	INCORP. MMD 98-616 CAP AND DCR 86-634 CAPS, ADDED NOTE 8
4	3/24/90	MRB	FCB	DSB	APL	DJM	INCORP. MMD 98-549 CAP2
3	9/16/87	MRJ	HEV	BCL	MPW	RRC	RESOLVED CHANGE ITEM 10, ADDED LINE SIZES, NOTE 7, CORRECTED DRAFTING ERROR, REVISED INSTR CONN PER EXISTING FIELD CONFIGURATION & NOTE 3, INCORP. DCR 86-587, ECA 83/118761C, DELETED DUPLICATION OF ASSOCIATED SYSTEMS.
2	10/28/86	MPW	DWS	VRD	BCL	RRC	ADDED VALVE V2813 PER EP-53889, REF CONT LOCATIONS, CHANGE ITEM 1, BELIEVED VALVE V188 AND V282 PER ERECTION 150'S.
1	6/24/86	DBF	MRB	YMK	JMCS	RRC	INCORP. FTR 73/87424, ADDED DR 465, DR & V DESIGNATIONS
0	5/15/86	DBF	MRB	TAK	ASK	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

North Atlantic Energy Service Corporation

STEAM GENERATOR BLOWDOWN BLOWDOWN EVAPORATOR DETAIL

SEABROOK STATION PID- 1-SB-B20629

9763-F-085631	10	SOLID WASTE SYS. SPENT RESIN CONCENTRATES P&ID
9763-F-282884	14	HEATER MISC. VENTS & DRAINS P & ID
9763-F-885839	11	STM. GEN. BLOWDOWN EVAP. SYS.
REF. DRAWING NDL	REV	TITLE



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

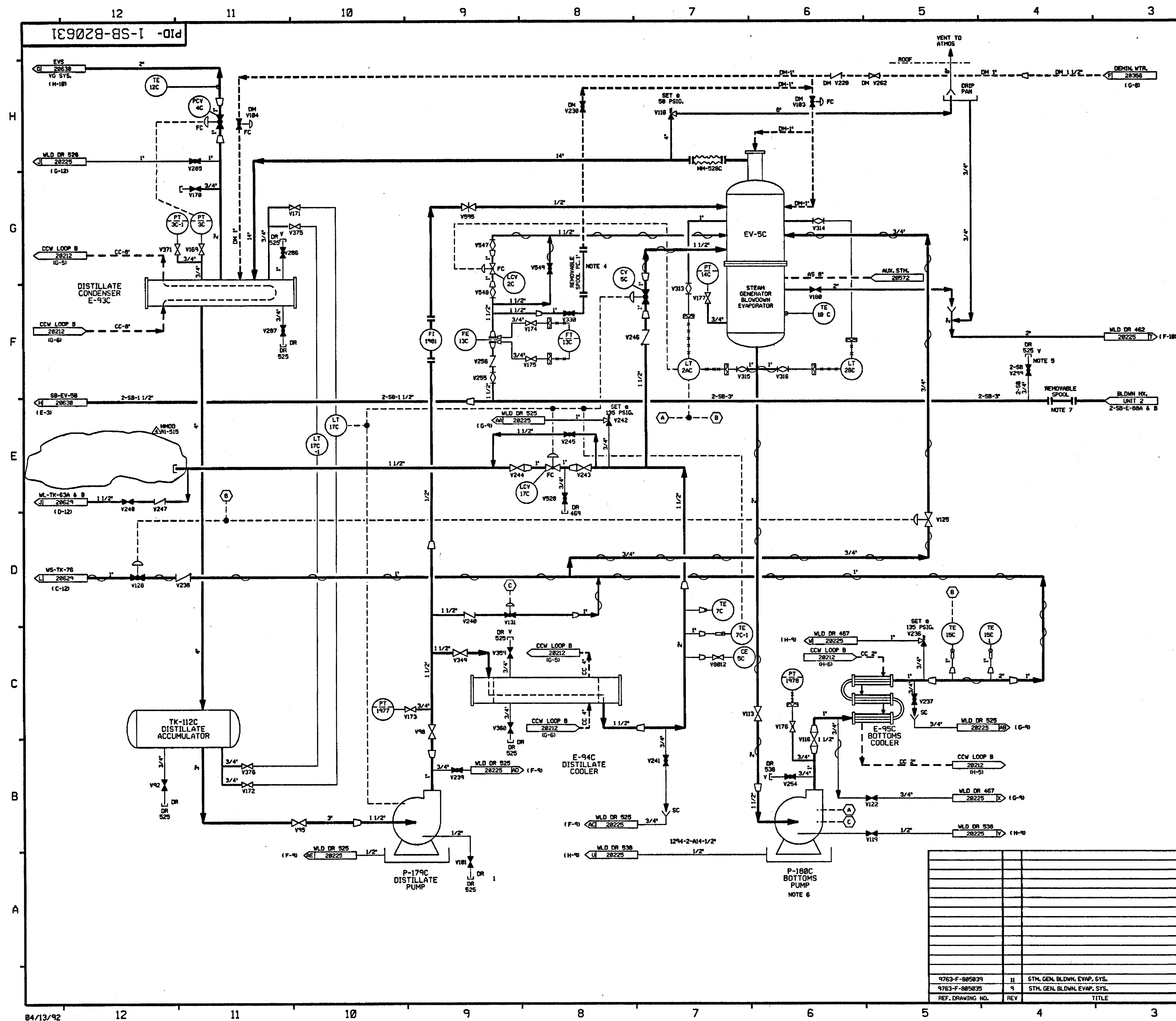
- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20625 THRU 20629 & 20631.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 4. DELETED.
 5. SEE DRAWING 20353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 6. DELETED.
 7. Δ INDICATES REVISION LEVEL
 8. INSTRUMENTATION REFERENCES
 9. \textcircled{B} LOW LOW EV-5B INTERLOCK WITH P-180B (SB-20630) & SB-LCV-18 (AS-20572).
 10. \textcircled{D} HIGH E-95B OUTLET TEMP., HIGH WS-TK-76 LEVEL AND LOW DISCHARGE EV-5B INTERLOCK.
 11. \textcircled{F} DISTILLATE FLUSH V138, P-180B.
 12. \textcircled{H} EV-5B HI HI LVL. LCV-28 INTERLOCK.

6	2-25-85	BCS	JM	PER	INCCORP. CR 84-09481 REV. 8
5	1/28/92	MRB	DWS	RRB	INCCORP. MMD 91-515 CMB1
4	12/18/91	MRB	JM	GRM	INCCORP. DCR 86-634 CA 8/ ADDED NOTE 8
3	9/16/87	JDM	BCL	RRC	INCCORP. DCR 86-567, DELETED NOTE 4&6, AND DUPLICATE SYSTEM ADDED V-8014 PER FP 53889, CORRECTED DRAFTING ERRORS, REVISED NOTE 3.
2	10/16/86	MRJ	BCL	RRC	REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS, ADDED CONT FLAG COORDS, REVISED PIPING PER ERECTION ISOCS, ADDED NOTE 7.
1	6/27/86	DWS	BCL	RRC	INCCORP. ECA 19/1161298 AND UPDATE PER LATEST USAC P&ID
0	5/15/86	DPO	TAK	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station
**STEAM GENERATOR BLOWDOWN
EVAPORATION
DETAIL**

PID- 1-SB-B20630



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

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 28625 THRU 28638.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
4. FLUSH AND CHEMICAL ADDITION CONNECTION.
5. NITROGEN PURGE CONNECTION FOR DRY LAY-UP.
6. SEE DRAWING 28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
7. REMOVEABLE SPOOL TO BE REMOVED & REPLACED WITH BLIND FLANGE DURING UNIT 2 CONSTRUCTION.
8. Δ INDICATES REVISION LEVEL.

INSTRUMENTATION REFERENCES

- (A) LOW LOW EV-5C INTERLOCK WITH P-180C.
- (B) HIGH E-95C OUTLET TEMP., HIGH WS-TK-76 LEVEL AND LOW LEVEL EV-5C INTERLOCK.
- (C) DISTILLATE FLUSH V131, P-180C INTERLOCK.

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
4	4/2/92	MRB		DWS	BCL	RIS	INCOMP. MMD 91-515 CAB1
3	9/18/87	JDM	RMC	MRJ	BCL	RRC	INCOMP. DCR 86-587, REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS. REVISED NOTE 3.
2	10/4/86	MRJ	DWS	MPW	VNK	RRC	REVISED CONTROL BLOCK, PER USAC PAID & CONFIRMATION FLAG REFERENCES. ADDED NOTE 8.
1	6/23/86	DBF	MRB	VNK	JMCS	RRC	ADDED "DRY" DESIGNATIONS, HEAT TRACING & VALVE SIZE PER USAC. PAID REVIEW.
0	5/15/86	DBF	MRB	TAK	ASK	WFD	ISSUED FOR OPERATION

PSNH

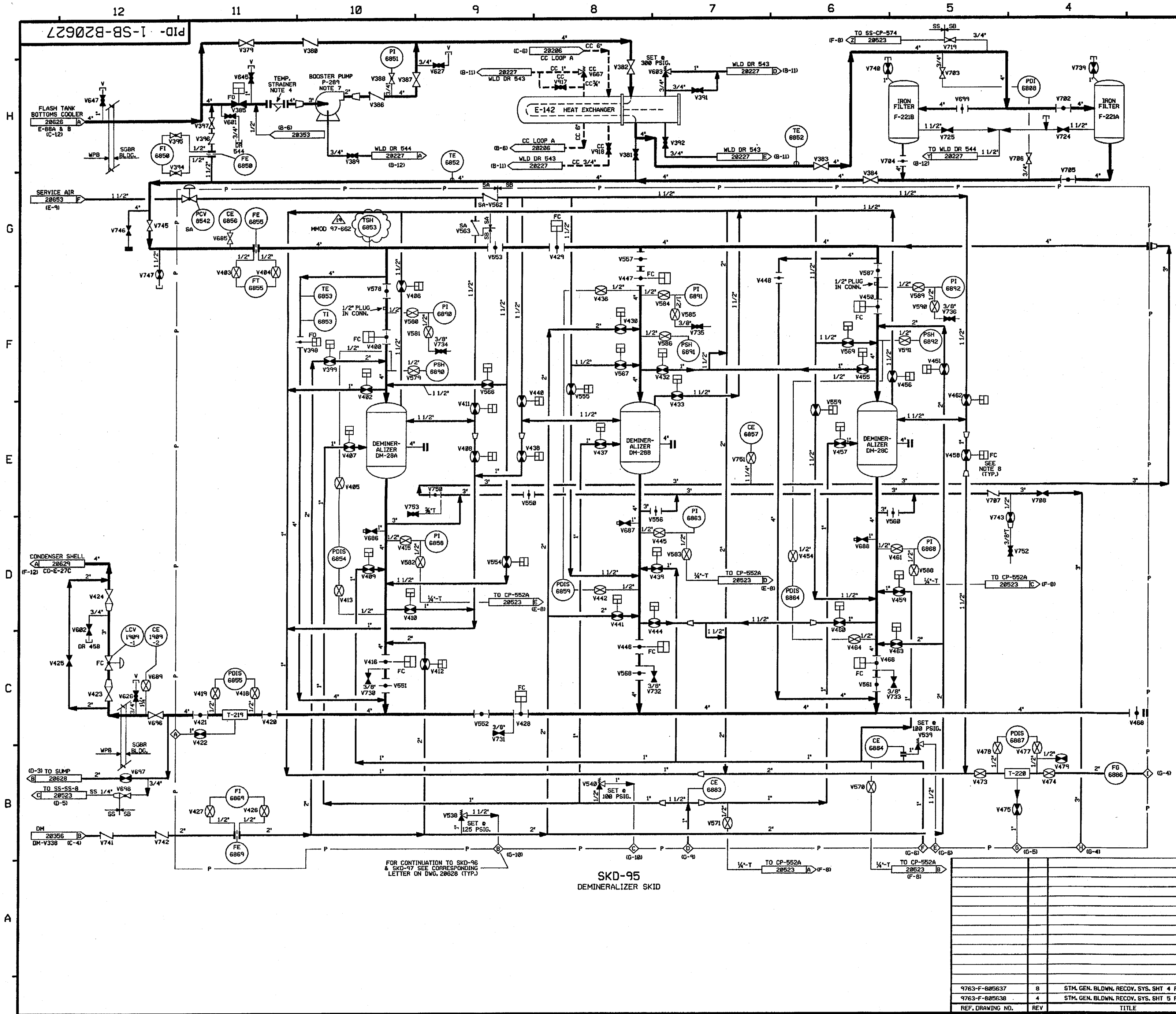
PUBLIC SERVICE OF NEW HAMPSHIRE



STEAM GENERATOR BLOWDOWN
BLOWDOWN EVAPORATION
DETAIL

SEABROOK STATION

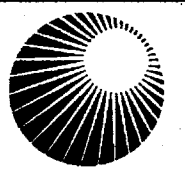
PID- 1-SB-B20631



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

- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 20625, 20626, & 20628 THRU 20631.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
 - 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
 - 4. STRAINER TO BE REMOVED DURING NORMAL PLANT OPERATION.
 - 5. Δ - INDICATES REVISION LEVEL.
 - 6. DELETED
 - 7. SEE DRAWING DM-20353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS. ALSO FOR PUMP 2-P-289 (NOT SHOWN).
 - 8. ALL AIR OPERATED BALL VALVES IN SKD-95 DENOTE (FC) FAIL CLOSED.

19	5/21/01	BCS	---	MRB	---	DCP	INCORP MMOD 97-662 DCN-00
18	8/8/00	BCS	---	MPW	DWS	DEA	INCORP MSE 00-0095, REV. 0
17	6/3/00	DWS	---	BCS	MRB	JCM	INCORP DCR 980043 DCN-00, #2 & #3
16	5/4/00	BCS	---	MPW	DWS	RSQ	PARTIAL INCORP MSE 00-0095, REV. 0
15	5-16-96	BCS	---	MPW	DWS	DJM	INCORP MMOD 960547 CA#0
14	12-1-94	MPW	---	BCL	DWS	MRB	INCORP MMOD 930545 CA#0
13	6/3/94	BCL	---	DWS	MPW	JLD	INCORP DCR 930023 CA#0
12	1/21/94	DWS	---	MRB	BCL	RSQ	INCORP DCR 680174 CA#0 & 2
11	2-8-93	BCL	---	MRB	BCL	RSQ	INCORP DCR 920011 CA#0
10	8-26-92	DWS	---	BCL	MRB	RSQ	INCORP DCR 910002 CA#3
9	8/3/92	DWS	---	BCL	MRB	GRM	FINAL INCORP DCR 910002 CA#1
8	7-16-92	MRB	---	BCL	DWS	RSQ	INCORP DCR 88-538 CA#0, #4 AND 5-2002 CA#0
7	4-30-92	DWS	---	BCL	MRB	RSQ	INCORP MMOD 90-616 CA#0
6	4-15-92	MRB	---	BCL	MPW	RSQ	INCORP MMOD 880548 CA#4
5	3/23/92	MRB	---	BCL	MPW	RSQ	INCORP MMOD 91-501 CA#0
ADMINISTRATIVE UPDATE TO PROVIDE VALVE FAILURE MODES AS DESCRIBED IN APPENDIX D OF 91-501							
INCORPORATED DCR 97-239 CA#0							
REVISED NOTE 3, LINE SIZE PER PP 55165							
P&ID CONFIGURATION PER DE & C P&ID 880538, PNEUMATIC VALVE SET POINT PER PP 55671 & DRAFTING ENHANCEMENTS							
NOTED TEMP MOD 88-057, ADDED NOTE 7 DELETED NOTE 6							
ADDED CONT LOC COORDS, 1 1/2" LINE SIZE TO DEMON 1X-28A OUTLET, PAID REF DWG NOTE & REVISIONS-9100 REF. DELETED							
4X304 SHOWN REVERSED, CIRCLED PIPING AROUND RELIEF VLV V539 & CE-6884							
UPDATED DE & C REVS, ADDED NOTES 3 & 6, ADDED CHANGE ITEM 1							
ISSUED FOR OPERATION INCORP. ECA'S 19/106267A 9/1/14/22A							
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

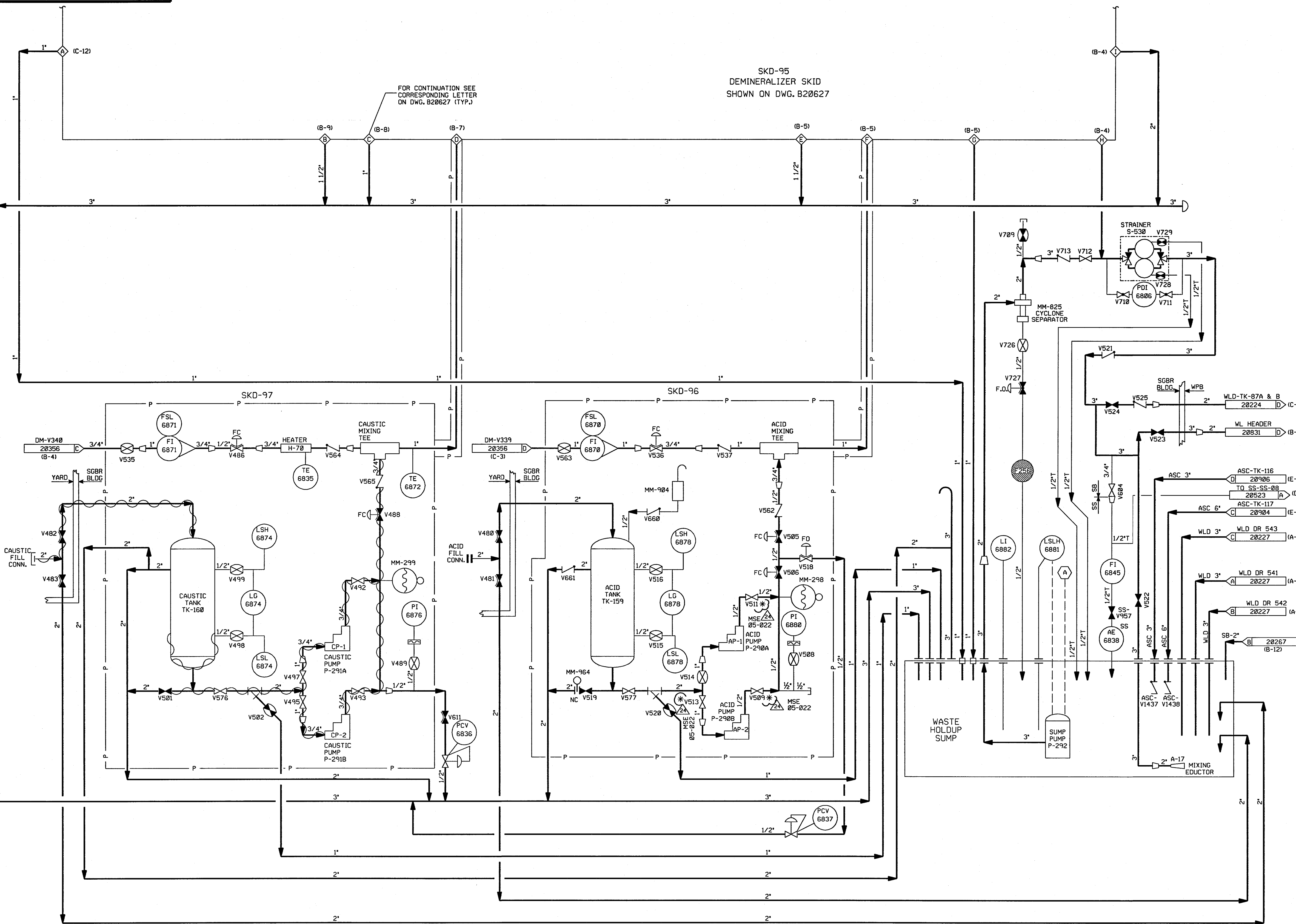
STEAM GENERATOR BLOWDOWN RECOVERY DETAIL

PID- 1-SB-B20627

9763-F-087637	8	STM. GEN. BLDWN. RECOV. SYS. SHT. 4 PAID
9763-F-087638	4	STM. GEN. BLDWN. RECOV. SYS. SHT. 5 PAID
REF. DRAWING NO.	REV	TITLE

PID-1-SB-B20628

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 20625 THRU 20627 AND 20629 THRU 20631.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX SB, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.

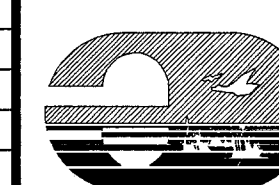
4. Δ INDICATES REVISION LEVEL
5. \diamond INDICATES CHANGE ITEM
6. INSTRUMENT REFERENCES
7. DELETED
8. * THESE VALVES ARE SUBJECT TO A PARTS SUBSTITUTION AUTHORIZED BY 05MSE022. VALVE SYMBOL MAY NOT REFLECT INSTALLED VALVE TYPE. DRAWING UPDATES WILL BE MADE UPON RECEIPT OF FORM WM 8.4F.

TO WL-FCV-1458-1 & 2, DRAWING WL-20831

24	9-7-07	JM	MPW	RRB	INCORP. MSE 05-022 REV. 00, 01, 02.
23	8/15/07	JM	MPW	RRB	PARTIAL INCORP. MSE 05-022 REV. 02
22	08/09/04	BCS	JM	JET	INCORP. MM00 04-506 DCN-00
21	06/18/04	BCS	JM	DEA	INCORP. MSE 04-021 REV. 00
20	03/29/04	BCS	JM	RRB	INCORP. CR 04-02468 REV. 0
19	01/30/04	BCS	MPW	JGC	INCORP. MSE 03-105 REV. 00
18	12/19/02	BCS	MPW	MPW	PARTIAL INCORP. MSE 02-196 REV. 00
17	10/16/02	BCS	JM	MPW	INCORP. CR 01-1164 REV. 0
16	8/21/01	BCS	MRB	RCP	INCORP. MM00 97-662 DCN-00, 01
15	6/2/98	DRL	BCS	VWS	INCORP. MM00 97-521 DCN 00
14	7/23/97	DWS	MPW	RCP	INCORP. MM00 95-639 DCN 1
13	3/5/97	MPW	BCS	NCD	INCORP. MM00 95-639 DCN 0
12	4/15/96	BCS	DWS	JWR	INCORP. DCR 940023 CA*01
11	1/4/96	BCS	MPW	JCM	INCORP. MM00 94-543 CA*0
10	11/14/94	BCL	MPW	RSG	INCORP. MM00 93-538 CA*0
9	3/16/94	BCL	DWS	RSG	INCORP. DCR 860174 CA*9
8	1/21/94	DWS	BCL	RSG	INCORP. DCR 860174 CA*0 & 2
7	2-8-93	BCL	MRB	RSG	INCORP. DCR 92-011 CA0
6	7/28/92	MRB	DWS	RSG	INCORP. DCR 86-538 CA0
5	7/16/92	MRB	BCL	RSG	INCORP. DCR 91-002 CA0
4	4/23/92	MRB	MPW	JEV	INCORP. MM00 91-515 CA0 ADMINISTRATIVE UPDATE TO PROVIDE VALVE FAILURE MODES AS DESCRIBED IN APPR'D DCR 91-002
3	3/28/89	MRB	PAL	MJY	INCORPORATED DCR 86-185 CA 3 ADDED: CONTINUATION COORDINATES REVISED: NOTE 3 DELETED: HEAT TRACE PER UE&C P&ID 005637 AND FIELD CONDITION
2	10/10/86	MRJ	BCL	RRC	REVISED VALVES, LINE SIZE AND ADDED REDUCER PER UE&C P&ID, REVISED CONT FLAG REF AND DWG COORDS, ADDED NOTE 4, 5, CHANGE ITEM 1 AND PID LEGEND NOTE.
1	6/23/86	DWS	VNK	RRC	INCORP. ECA 99/074730
0	5/15/86	DWS	TAK	WFO	ISSUED FOR OPERATIONS & INCORP ECA 99/074730
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

Seabrook Station



STEAM GENERATOR BLOWDOWN RECOVERY DETAIL

PID-1-SB-B20628

9763-F-005638	4	STM. GEN. BLOWN. RECOV. SYS. SHT 5 P&ID
9763-F-005637	8	STM. GEN. BLOWN. RECOV. SYS. SHT 4 P&ID
REF. DRAWING NO.	REV	TITLE

PID-1-SCC-B20072

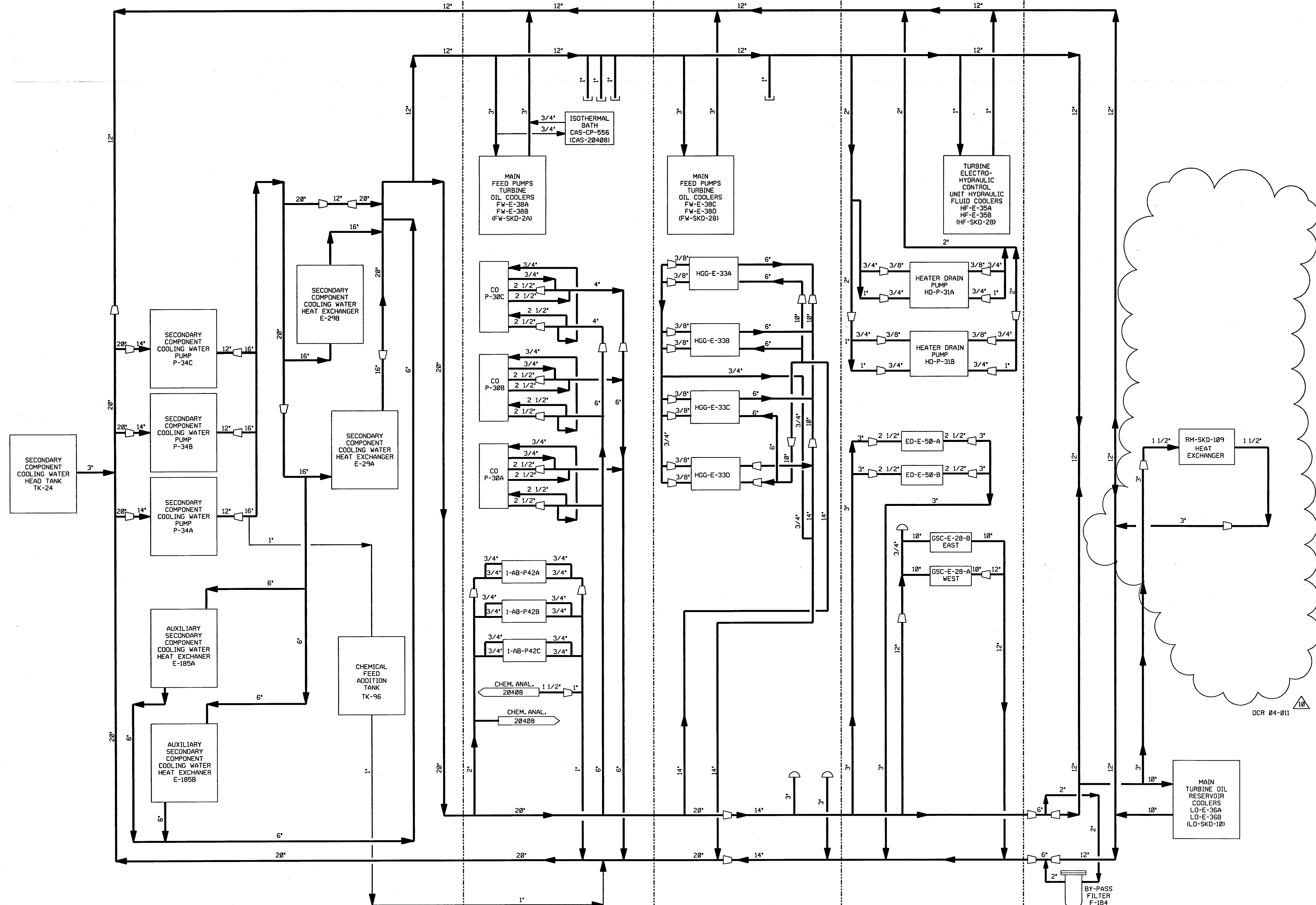
20074

20075

20076

20077

20078

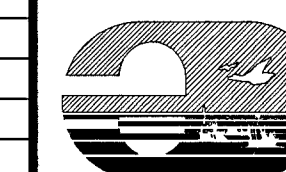


- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20074, 20075, 20076, 20077 AND 20078
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX SCC, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS ARE SAFETY CLASS "NNS" UNLESS NOTED OTHERWISE.
 4. INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
10	7/23/07	BCS	JM	WFS	INCORP DCR 04-011 DCN-00
9	10/10/06	BCS	JM	RRB	INCORP DCR 05-007 DCN-00
8	6/25/03	BCS	JM	MPW	INCORP DCR 00-014 DCN-00 & CR 03-0541 REV. 0
7	6/2/98	DRL	MPW	VWS	INCORP MMOD 97-521 DCN 00
6	3/24/94	MRB	DWS	RJF	INCORP DCR 93-16 CA0
5	11/19/92	MRB	DWS	RSG	INCORP DCR 90-20 CA0
4	1/29/90	MRB	WCL	RSG	INCORP DCR 86-628 CA01, & DCR 88-8 REVISED: DWG CONFIGURATION TO AGREE WITH DETAIL 20074, NOTE 3 PER ANSI B31.1 1977 SEC 137.1.2E ADDED: P&ID LEGEND NOTE
3	2/2/87	WDS	BCL	VWS	REVISED REF. DWG. REVISION ADDED NOTE 4, REVISED PER LATEST SYSTEM DWG'S.
2	6/13/86	JDM	JMS	RRB	DELETE DM SUPPLY FROM OVERVIEW INCORPORATED ECA 93/1119208
1	10/18/85	WES	WFD	EWG	ISSUED FOR OPERATION INCORPORATED ECA 08/106470A FIELD VERIFIED MINOR REVISION
0	04/02/84	PJC	JWK	WFD	AS BUILT

FPL ENERGY

Seabrook Station



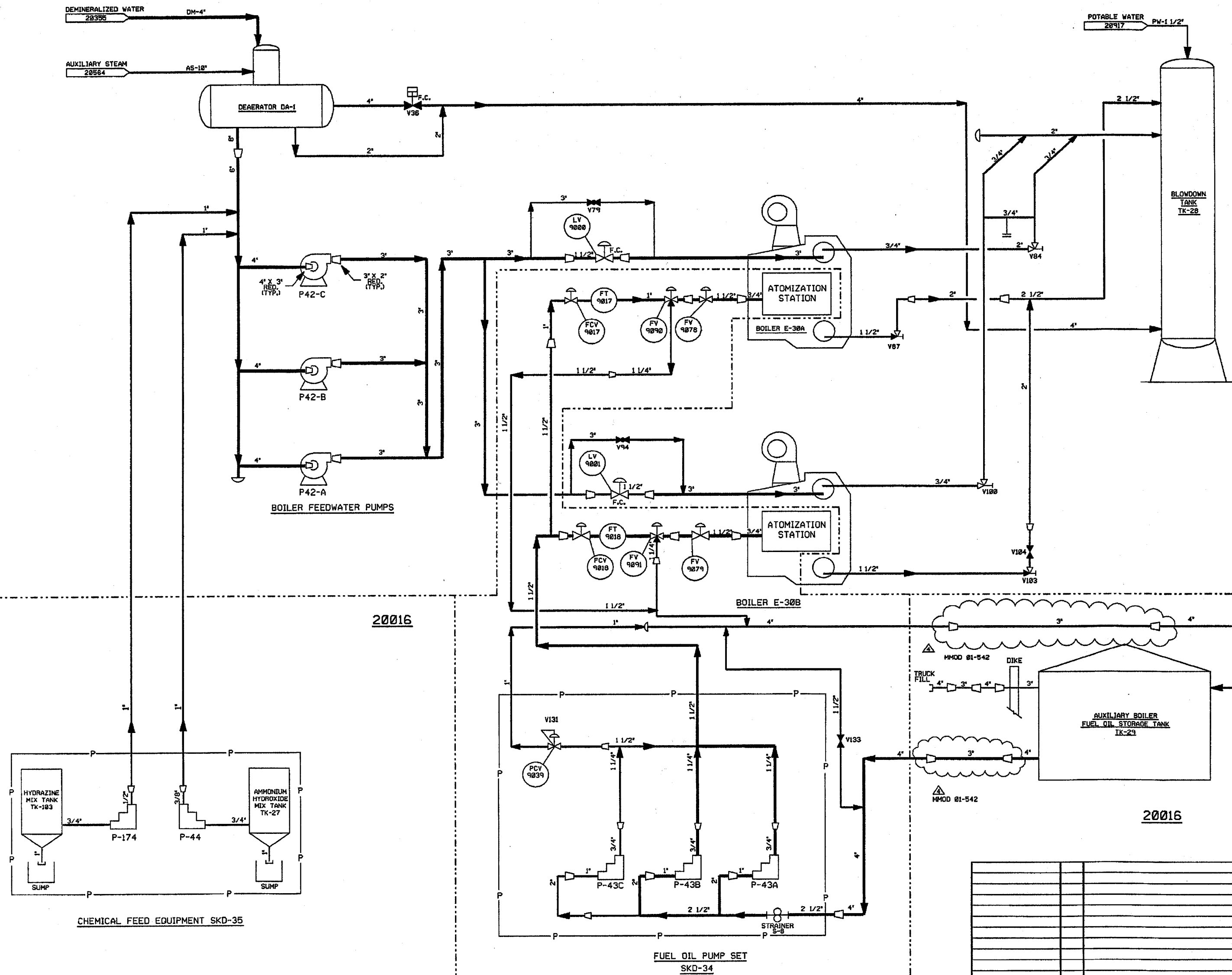
SECONDARY COMPONENT COOLING WATER OVERVIEW

PID- 1-SCC-B20072

REF. DRAWING NO.	REV	TITLE
9763-F-202095	14	SECONDARY COMPONENT COOLING WATER PID
9763-F-202094	12	SECONDARY COMPONENT COOLING WATER PID

PID-1-AB-B20012

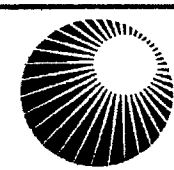
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20014, 20015, AND 20016
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTATION HAVE SYSTEM PREFIX AB, EXCEPT AS NOTED
 3. ALL EDDIMENT IN THIS SYSTEM IS SAFETY CLASS NNS.
 4. Δ INDICATES REVISION LEVEL.

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
4	11/20/01	BCS	JM				INCORP MMD 01-542 DCN-88
3	2/2/98	MRB	FCB	APL	WCL	DJM	INCORP MMD 89-514 CAB REVISED NOTE 3 PER 1-NHY-980800 ADDED LEGEND 1 & 2 P&ID NOTE
2	1/28/87	MPW	DVS	WRD	SCL	RRC	ADDED NOTE 4 REVISED PER LATEST SYSTEM DRAWINGS
1	10/9/85	VES	MRB	DVS	DHF	WFD	ISSUED FOR OPERATIONS GENERAL REVISION
0	03/05/84	PJC	RI	RSL	BRG	WFD	AS BUILT

North Atlantic Energy Service Corporation



AUXILIARY BOILER
OVERVIEW

PID- 1-AB-B20012

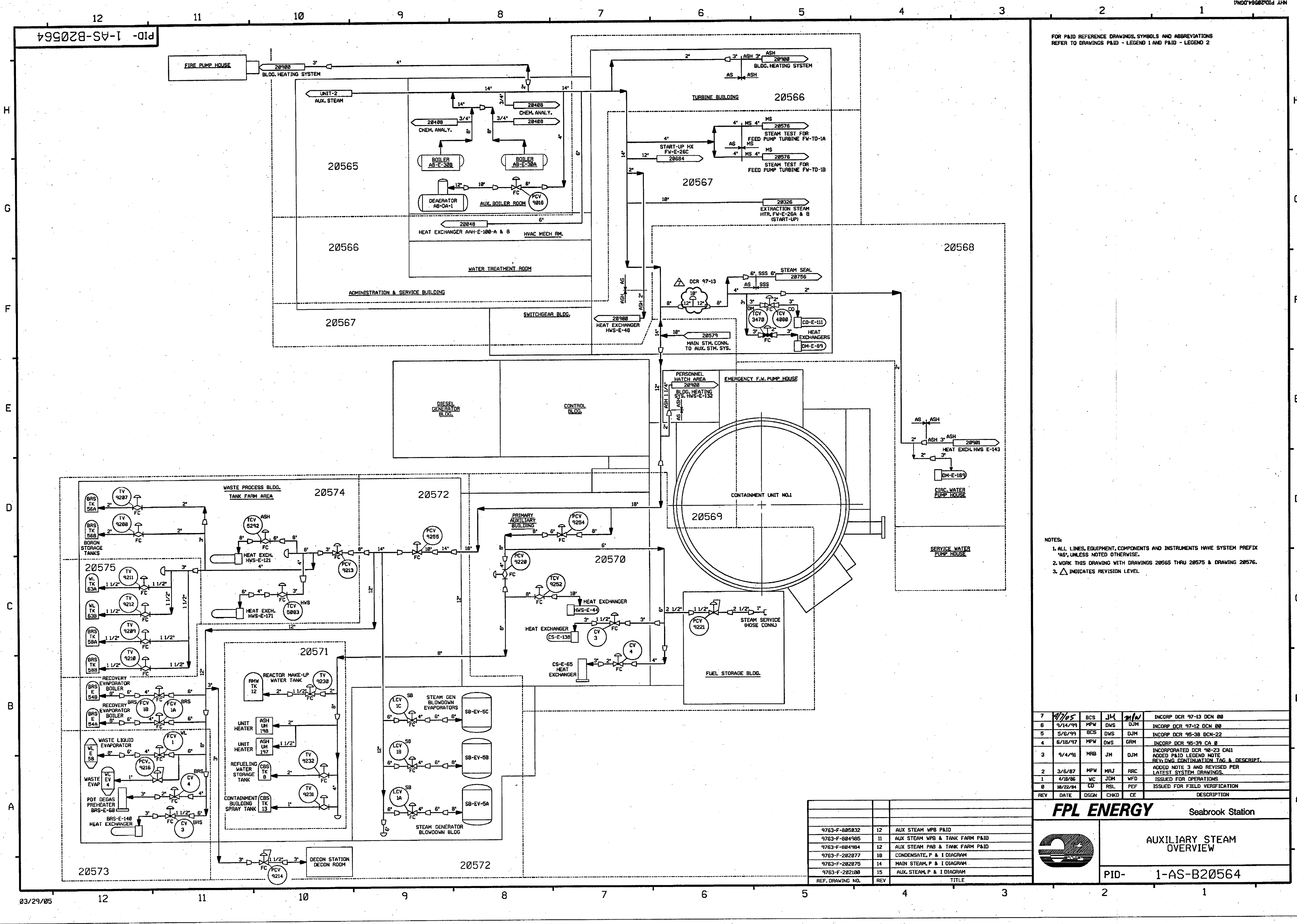
REF. DRAWING NO.	REV	TITLE
9763-F-202099	12	AUXILIARY BOILER SYSTEM - P&I DIAGRAM
9763-F-202098	10	AUXILIARY BOILER SYSTEM - P&I DIAGRAM

PID-1-AS-B20564

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 "AS", UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 20565 THRU 20575 & DRAWING 20576.
3. Δ INDICATES REVISION LEVEL.

7	4/1/05	BCS	JM	M/W	INCORP DCR 97-13 DCN 08
6	9/14/99	MPW	DWS	DJM	INCORP DCR 97-12 DCN 08
5	5/6/99	BCS	DWS	DJM	INCORP DCR 95-38 DCN-22
4	6/18/97	MPW	DWS	GRM	INCORP DCR 95-39 CA 0
3	9/4/91	MRB	JM	DJM	INCORP DCR 90-23 CA11 ADDED P&ID LEGEND NOTE REV DNG CONTINUATION TAG & DESCRIPT.
2	3/8/87	MPW	MRJ	RRC	ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS.
1	4/18/86	WC	JDM	WFD	ISSUED FOR OPERATIONS
0	10/22/84	CO	RSL	PEF	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

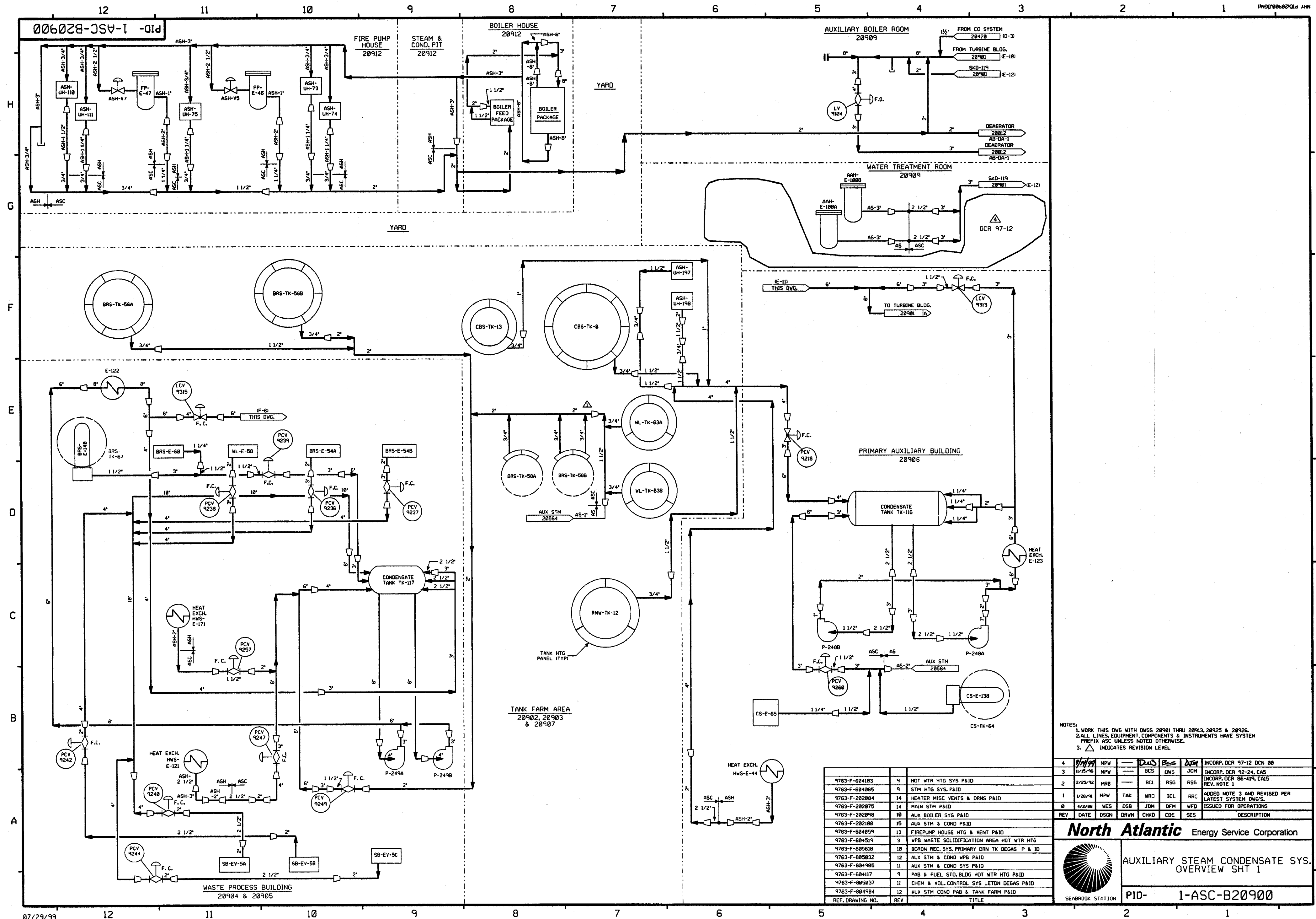
FPL ENERGY Seabrook Station



AUXILIARY STEAM
OVERVIEW

PID- 1-AS-B20564

9763-F-885832	12	AUX STEAM WPB P&ID
9763-F-884985	11	AUX STEAM WPB & TANK FARM P&ID
9763-F-884984	12	AUX STEAM PAB & TANK FARM P&ID
9763-F-202877	18	CONDENSATE, P & I DIAGRAM
9763-F-202875	14	MAIN STEAM, P & I DIAGRAM
9763-F-202100	15	AUX. STEAM, P & I DIAGRAM
REF. DRAWING NO.	REV	TITLE



NOTES:
 1. WORK THIS DWG WITH DWGS 20901 THRU 20913, 20925 & 20926.
 2. ALL LINES, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX ASC UNLESS NOTED OTHERWISE.
 3. Δ INDICATES REVISION LEVEL

4	07/99	MPW	—	DCS	BS	DM	INCORP. DCR 97-12 DCN 00
3	11/15/98	MPW	—	BCL	DWS	JCM	INCORP. DCR 92-24, CA5
2	2/23/92	MRB	—	BCL	RSG	RSG	INCORP. DCR 86-419, CA15
1	1/28/91	MPW	TAK	WRD	BCL	RRR	ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DWG'S.
0	4/2/90	WES	DSB	JDM	DFM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CODE	SES	DESCRIPTION

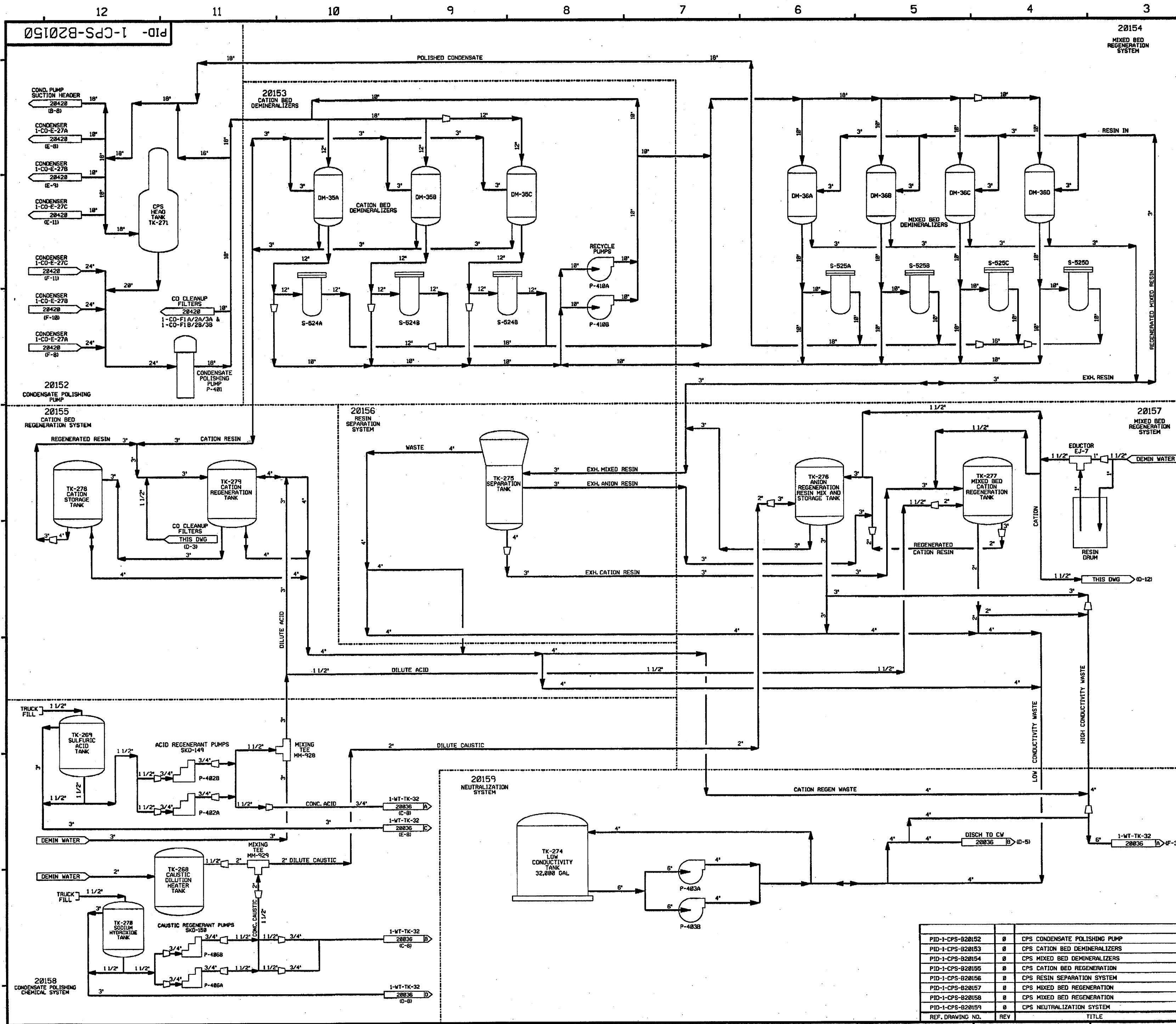
North Atlantic Energy Service Corporation

AUXILIARY STEAM CONDENSATE SYS. OVERVIEW SHT 1

PID- 1-ASC-B20900

REF. DRAWING NO.	REV	TITLE
9763-F-604183	9	HOT WTR HTG SYS P&ID
9763-F-604085	9	STM HTG SYS P&ID
9763-F-202084	14	HEATER MISC VENTS & DRNS P&ID
9763-F-202075	14	MAIN STM P&ID
9763-F-202098	10	AUX BOILER SYS P&ID
9763-F-202100	15	AUX STM & COND P&ID
9763-F-604059	13	FIREPUMP HOUSE HTG & VENT P&ID
9763-F-604519	3	WPB WASTE SOLIDIFICATION AREA HOT WTR HTG
9763-F-605618	10	BORDON REC. SYS. PRIMARY DRN TK DEGAS P & ID
9763-F-605032	12	AUX STM & COND WPB P&ID
9763-F-604985	11	AUX STM & COND SYS P&ID
9763-F-604117	9	PAB & FUEL STD. BLDG HOT WTR HTG P&ID
9763-F-605037	11	CHEM & VOL. CONTROL SYS LETDN DEGAS P&ID
9763-F-604984	12	AUX STM COND PAB & TANK FARM P&ID





- NOTES:
1. ALL LINES, VALVES, EQUIPMENT AND INSTRUMENTS HAVE A SYSTEM PREFIX OF "1-CPS" UNLESS NOTED OTHERWISE.
 2. ALL LINES, VALVES, EQUIPMENT AND INSTRUMENTS ARE SAFETY CLASS MMS, UNLESS NOTED OTHERWISE.
 3. WORK THIS DRAWING WITH DRAWINGS 20152 THRU 20159.
 4. Δ INDICATES REVISION LEVEL.

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
0	4/21/05	BCS	GPS	AKP	INITIAL ISSUE PER OCR 97-013 DCN-00,235,236

FPL ENERGY Seabrook Station



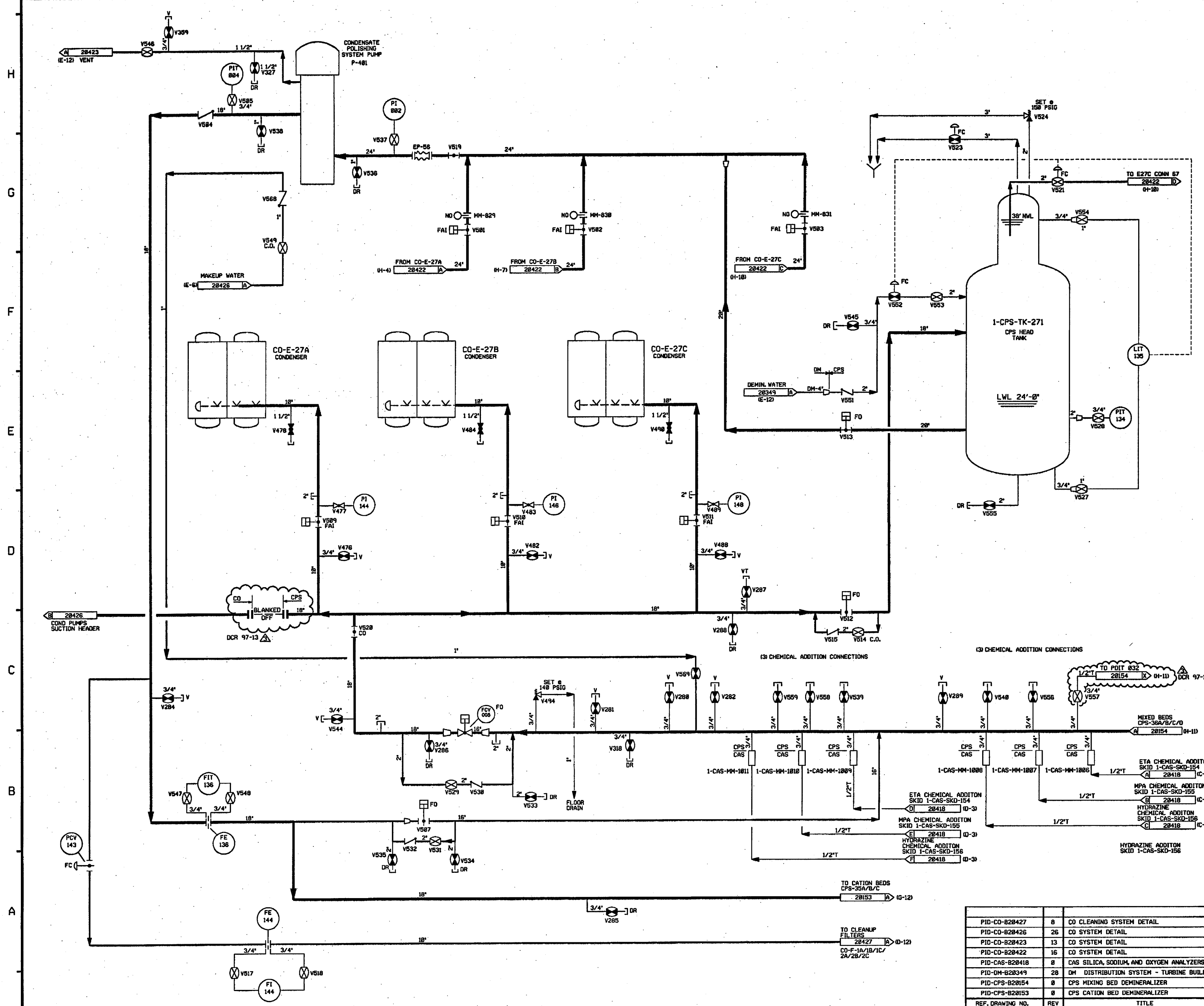
CONDENSATE POLISHING
SYSTEM OVERVIEW

PID- 1-CPS-B20150

PID-1-CPS-B20150	0	CPS CONDENSATE POLISHING PUMP
PID-1-CPS-B20153	0	CPS CATION BED DEMINERALIZERS
PID-1-CPS-B20154	0	CPS MIXED BED DEMINERALIZERS
PID-1-CPS-B20155	0	CPS CATION BED REGENERATION
PID-1-CPS-B20156	0	CPS RESIN SEPARATION SYSTEM
PID-1-CPS-B20157	0	CPS MIXED BED REGENERATION
PID-1-CPS-B20158	0	CPS MIXED BED REGENERATION
PID-1-CPS-B20159	0	CPS NEUTRALIZATION SYSTEM
REF. DRAWING NO.	REV	TITLE

PID-1-CPS-B20152

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



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28150, 28153 THRU 28159.
 2. ALL LINES, EQUIPMENT, COMPONENTS, VALVES AND INSTRUMENTS HAVE SYSTEM PREFIX "1-CPS-", UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, VALVES AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. ALL 3 DIGIT NUMERICAL INSTRUMENT TAG NAMES ARE PREFIXED WITH "28".
EXAMPLE: Δ FIT 814 A = 1-CPS-FIT-28814-A

3	10-13-06	JM	BS	PRB	INCORP. DCR 97-13 DCN 274, 294
2	12/21/05	BCS	JM	SAK	INCORP. DCR 97-13 DCN 272
1	4/27/05	BCS	JM	PAL	INCORP. DCR 97-13 DCN 08, 46, 52, 54, 55, 69, 74, 174, 196
0	10/14/83	MPW	BCS	SAK	PARTIAL INCORP. DCR 97-13 DCN 08, 46, 54 & 55, INCORP. DCR 97-813 DCN 29 & 51.
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY
Seabrook Station

**CONDENSATE POLISHING SYSTEM
CONDENSATE POLISHING PUMP**

PID- 1-CPS-B20152

PID-NO	REV	TITLE
PID-CO-820427	8	CO CLEANING SYSTEM DETAIL
PID-CO-820426	26	CO SYSTEM DETAIL
PID-CO-820423	13	CO SYSTEM DETAIL
PID-CO-820422	16	CO SYSTEM DETAIL
PID-CAS-820418	8	CAS SILICA, SODIUM, AND OXYGEN ANALYZERS
PID-DM-820349	28	DM DISTRIBUTION SYSTEM - TURBINE BUILDING
PID-CPS-820154	8	CPS MIXING BED DEMINERALIZER
PID-CPS-820153	8	CPS CATION BED DEMINERALIZER
REF. DRAWING NO.	REV	TITLE