PID- 1-RH-D20663

INSIDE SHIELDING | OUTSIDE SHIELDING

VAULT NO. 1 | VAULT NO. 2 | PIPE PENETRATION AREA | CONTAINMENT BUILDING

E-9B
RHR LOOP B
HEAT EXCHANGER
SAFETY CLASS 2 & 3

P-88
RHR PUMP B
400 HP
1997 RPM
4160 V
BUS E6

DETAIL "A"

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

1 FURTHER ENGINEERING EVALUATION TO EFFECT ECA 99/115181C.

LEGEND

		DESIGN PRESSURE	TEST PRESSURE	MIN. TEST TEMP° F	TEST MEDIUM
	TEST BOUNDARY				
A2	INTEGRITY TEST	2485 PSIG	3106/3292 PSIG	35	DM WATER
D5	INTEGRITY TEST	300 PSIG	375/398 PSIG	35	DM WATER
D4	INTEGRITY TEST	600 PSIG	750/795 PSIG	35	DM WATER
D7	INTEGRITY TEST	350 PSIG	437.5/463 PSIG	35	DM WATER
E10	INTEGRITY TEST	220 PSIG	275/291 PSIG	35	DM WATER
F1	INTEGRITY TEST	150 PSIG	187.5/199 PSIG	35	DM WATER
P5	INTEGRITY TEST (IS)	15 PSIG	18/22.5 PSIG	35	AIR
N	NO TEST REQUIRED				

NOTES:
A. VENTS & DRAINS (ASME CL. 2 & 3) SHALL BE TESTED TO THE LAST ISOLATION VALVE.
B. ASME (D4) TEST IS EXTENDED TO THE ANSI PORTION PER MM-13001A.
C. RELIEF VALVE DISCHARGE PIPING FOR VALVE V-25 MUST BE FILLED WITH WATER TO ITS MAXIMUM ELEVATION DURING PRESSURE TESTING.
D. FOR ASME THAT HAVE THE HYDROSTATIC TEST UNDER ANSI B31.1 CRITERIA, THE TEST DOES NOT OVERSTRESS PIPING SYSTEM PER THE STRESS REPORT.

NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20662 & 20662, PORTIONS OF THIS DRAWING ARE DUPLICATED ON DRAWING SI-20446, SI-20448 & SI-20449 DUE TO DUAL SYSTEM FUNCTIONS.
2. ALL LINES, VALVES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX RH, UNLESS NOTED OTHERWISE.
3. ● INDICATES 3/8" FLOW RESTRICTOR INSTALLED, SEE APPLICABLE DETAIL ON DRAWING RC-20848.
4. DELETED
5. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.
6. DELETED
7. INSTRUMENTATION:
   (A) INTERLOCKED WITH SI-V89, SI-V90, SI-V93,(DWG. 20446) CBS-V14,(DWG. 20233) RC-V87, & RC-V88 (DWG. 20844).
8. VENTS, DRAINS, TEST CONN.& ORIFICE TAP PIPING CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
9 - 11. DELETED
12. △ -INDICATES REVISION LEVEL.
13. DELETED
14. ✱ INDICATES VALVE SUPPLIED BY WESTINGHOUSE.
15 - 16. DELETED
17. CLEANLINESS CLASS "B".
18 - 21. DELETED
22. SD NO. NAH NCH-283
23. DELETED
24. ◇ INDICATES OPEN ITEM NUMBER.
25. HANDJACK HANDWHEEL LOCKED OPEN EXCEPT DURING MIDLOOP.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

FOR INFORMATION ONLY

9763-F-980136	5	RESIDUAL HEAT REMOVAL SYS. MITD
9763-F-805008	17	RESIDUAL HEAT REMOVAL SYS. P&ID
REF. DRAWING NO.	REV	TITLE

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
17	12-2-08	BCS	JM	RRB	INCORP MMOD 01-515 DCN-00, 01
16	11/26/07	BCS	JM	RRB	INCORP MSE 07-126 REV. 0, MMOD 03-504 DCN-0
15	4/8/05	JM	BCS	RRB	INCORP DCR 02-002 DCN 05
14	2/5/03	MPW	BCS	JM	INCORP CR 02-16464 & CLOSED DRAIN VALVES
13	8/22/00	BCS	DWS	ARB	INCORP DCR 99-0036 DCN-00
12	4/7/00	DWS	BCS	MPW	INCORP MMOD 990611 DCN#00
11	9/21/99	DWS	MPW	VWS	REINCORP DCR 8/80213 CA#00 INCORP. MMOD 99-524 DCN 00
10	11/14/97	BCS	MPW	DMO	PARTIAL INCORP MMOD 91-555 CA0
9	11/27/95	BCS	MPW	DMO	INCORP DCR 95-23 CA0
8	4/10/95	BCL	DWS	JHDC	INCORP DCR 89-54 CA0
7	3/20/94	BCL	MRB	GRM	INCORP MMOD 92-552 CA0
6	10/5/92	MRB	DWS	DMP	INCORP MMOD 92-526 CA0
5	04/17/92	MRB	DWS	RRB	INCORP MMOD 91-515 CA0
4	11/11/89	MRB	PAL	GRM	INCORP DCR 87-422 CA 13, 89-13 CA 03, 88-32 CA0, 87-136 CA11 & 86-712 DELETED NOTE 16, DWG ENHANCEMENTS
3	10/30/87	GPM	DWS	POS	INCORPORATED DCR 87-349 REVDIPPING TO REFLECT AS INSTALLED CONF.& TO CLARIFY REDUNDANT SYS. DUPLICATION, DWG.CONT.S, NOTES 1,3,5 & 8 ISO DWG.NO.& LEGEND NOTE & PER 9763-F-920000, RE-INCORP NCR 82/895G. ADDED DET. "A", NOTE FOR VLV CS-V829, NEW FLOW RESTRICTOR INDICATOR SYM. ALPHA DESIGNATION FOR TEST NOTE & NEW NOTES B,C & D, NOTE 24, OPEN ITEM 1 SPEC B8K & L,INC NO'S DELETED NOTES 4, 9,10,11,15,16,19,20,21 & 23, REF. DWG'S, PIPING SPEC B8KS PER NOTE 8,INCOMP. ITEM, NNS-1 CL. BOUNDARY
2	1/26/86	MRJ	WRD	RRC	REVISED RC-V154 TO BE SHOWN OPEN PER LOOP DIA. 506653.INCORP NCR 82/895G, ADDED INCOMPLETE ITEM.

FPL ENERGY Seabrook Station

RESIDUAL HEAT REMOVAL SYS.
TRAIN B CROSS-TIE
DETAIL D-07

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12/02/08