FOR INFORMATION ONLY

PID- 1-CS-D20726

INSIDE REACTOR CONTAINMENT | TUNNEL | PRIMARY AUXILIARY BUILDING

REACTOR COOLANT PUMPS

SEAL WATER HEAT EXCHANGER SAFETY CLASS 2 & 3 CC LOOP A 20206

SEAL WATER HEAT EXCHANGER SAFETY CLASS 2 & 3 CC LOOP B 20212

CVCT TK-1 20725

LTDN RHT HX E-9 20277

SEAL WATER RETURN FILTER SAFETY CLASS 2 F-3

SEAL INJECTION FILTERS SAFETY CLASS 2 F-4B

SEAL INJECTION FILTERS SAFETY CLASS 2 F-4A

CHARG P-128 20725

CHARGE P-2A & B 20725 20447

EXCESS LTDN HX E-3 20722

RC P-1A 20841
RC P-1B 20842
RC P-1C 20843
RC P-1D 20844

DETAIL "A"

TYPICAL VALVE STEM LEAKOFF PIPING (SEE NOTE 6)

FLEXIBLE HOSE OR TUBING LOOP (NOT SHOWN)

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

LEGEND

	TEST BOUNDARY	DESIGN PRESSURE	TEST PRESSURE	MIN. TEST TEMP° F	TEST MEDIUM
F1	INTEGRITY TEST	150 PSIG	187.5/199 PSIG	35	WATER
P27	INTEGRITY TEST	75 PSIG	94/100 PSIG	35	AIR
A1	INTEGRITY TEST	2735 PSIG	3419/3624 PSIG	100	D.M. WATER
A2	INTEGRITY TEST	2485 PSIG	3106/3292 PSIG	100	D.M. WATER
P6	INTEGRITY TEST	18 PSIG	15/18 PSIG	35	AIR / N_2
D5	INTEGRITY TEST	300 PSIG	375/398 PSIG	35	WATER
N	NO TEST REQUIRED				

NOTES:

A. VENTS & DRAINS WITH CAPS/BLIND FLANGES ETC. (ASME CL. 2 & 3) SHALL BE TESTED TO THE LAST ISOLATION VALVE.

B. REACTOR CONTAINMENT PENETRATION SEAL PLATE ATTACHMENT WELDS TESTED SATISFACTORILY AS FOLLOWS:
X-28 PER CS-86 X-30 PER CS-89 X-33 PER CS-91
X-29 PER CS-87 X-31 PER CS-88 X-37 PER CS-92 & 93
INACCESSIBLE PORTIONS OF LINE NO'S 360-9-601-3" AND 332-7-151-2" IN PAB PIPE TRENCHES AT ELEV. 1-16 & 1-126 TESTED SATISFACTORILY PER CS-84 AND CS-95 RESPECTIVELY.

C. PORTIONS OF INJECTION LINES AND #1 SEAL LEAK OFF LINES HAVE BEEN TESTED AT HIGHER PRESSURE THAN INDICATED IN APPENDIX G. THE HIGHER TEST PRESSURE SATISFIES THE STRESS REPORT AND IS ACCEPTABLE.

NOTES:

1. WORK THIS DWG WITH DWGS. 20728, 20722 THRU 20725 & 20727 THRU 20729.
2. ALL PIPING, VALVES, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX "CS", UNLESS NOTED OTHERWISE.
3. 2" NEEDLE VALVE WITH 1" INTERNALS.
4. ● INDICATES 3/8" FLOW RESTRICTOR INSTALLED. SEE APPLICABLE DETAIL ON DWG RC-20848.
5. VENTS, DRAINS & TEST CONN. CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-805111, UNLESS NOTED OTHERWISE.
6. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.
7. ORIFICE PLATE IS NON-ASME.
8. REACTOR COOLANT PUMPS SHOWN ON DWG'S:
RC P-1A-20841
RC P-1B-20842
RC P-1C-20843
RC P-1D-20844
9. CLEANLINESS CLASS "B".
10. THE INDENTIFICATION "J" NEAR A VALVE DENOTES THAT VALVE IS DESIGNATED FOR INSERVICE TESTING.
11. DELETED
12. ✱ INDICATES VALVE SUPPLIED BY WESTINGHOUSE.
13. DELAY TIME RCS TO HERE MUST BE 45 SECS. MIN.
14. CHECK VALVES LOCATED CLOSE TO R.C. PUMP.
15. LOCATED CLOSE TO CONTAINMENT.
16. △ INDICATES REVISION LEVEL.
17. SYSTEM DESCRIPTION IS 10 CFR 37.
18. VALVE STEM LEAK-OFF ISOLATION VALVES V688, V694, V398 & V394 ARE TO BE MAINTAINED CLOSED. VALVE STEM LEAK-OFF TO BE CONSIDERED INOPERABLE.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

9763-F-900124	1	CVCS, SEAL WATER HXS MITD
9763-F-900131	4	REACTOR COOLANT SYSTEM, LOOP-1 MITD
9763-F-900132	4	REACTOR COOLANT SYSTEM, LOOP-2 MITD
9763-F-900133	4	REACTOR COOLANT SYSTEM, LOOP-3 MITD
9763-F-900134	4	REACTOR COOLANT SYSTEM, LOOP-4 MITD
9763-F-900139	6	CHEMICAL & VOLUME CONTROL PURIF. SYS. MITD
9763-M-805006	19	REACTOR COOLANT SYSTEM, LOOP-4 P&ID
9763-F-805005	15	REACTOR COOLANT SYSTEM, LOOP-3 P&ID
9763-F-805004	16	REACTOR COOLANT SYSTEM, LOOP-2 P&ID
9763-F-805003	19	REACTOR COOLANT SYSTEM, LOOP-1 P&ID
9763-F-804987	2	CVCS, SEAL WATER HXS P&ID
9763-F-805011	19	CVCS, PURIFICATION P&ID
REF. DRAWING NO.	REV	TITLE

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
18	3/4/97	DWS		DWS	FAC	JEV	INCORP DCR 950045 ECN-04
17	7/1/97	MPW		MPW	FAC	JEV	DCR 960007 CA-08 (FINAL) INCORP DCR 970008 ECN-00 & DCR 960007 CA-00 (PARTIAL)
16	6/13/97	DWS		DWS	HWM	WFZ	INCORP. DCR 97-016 CA-0
15	5/16/97	MPW		MPW	DWS	RCP	INCORP. DCR 94-246 CA-0
14	2/25/93	BCS		BCS	RWM	RRB	INCORP. DCR 86-110 CA-0
13	1/28/95	MPW		MPW	DWS	DMD	INCORP. MMOD-93-517 CA-0
12	4/14/94	BCL		MPW	MRB	WFZ	INCORP. MMOD-91-587 CA-0
11	4/5/93	BCL					

North Atlantic Energy Service Corporation

SEABROOK STATION

CHEMICAL & VOLUME CONTROL SYS. SEAL WATER DETAIL

PID- 1-CS-D20726

04/19/99

D-17