FOR INFORMATION ONLY

PID- 1-SW-D20794

SERVICE WATER PUMP HOUSE

PIPE CHASE

SERVICE WATER COOLING TOWER

EQUIP. NO	1 VALVE. NO	2 INSTR. NO	3 VALVE. NO
1-SW-FN-51B	1-SW-V231	1-SW-LG-6116B	1-SW-V232
2-SW-FN-51B	2-SW-V231	2-SW-LG-6116B	2-SW-V232

EQUIP. NO	1 VALVE. NO	2 INSTR. NO
1-SW-FN-51A	1-SW-V230	1-SW-LG-6116A
2-SW-FN-51A	2-SW-V230	2-SW-LG-6116A

PUMP NO.	TOP DRAIN	BOTTOM DRAIN
P-41A	—	—
P-41B	V525 1824-7-159-1/2"	V526 1824-8-159-1/2"
P-41C	V527 1824-9-159-1/2"	V528 1824-10-159-1/2"
P-41D	V524 1824-11-159-1/2"	V530 1824-12-151-1/2"

DETAIL "A"

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

LEGEND

		DESIGN PRESSURE	TEST PRESSURE	MIN. TEST TEMP.° F	TEST MEDIUM
	TEST BOUNDARY				
TB	TEMPORARY TEST BOUNDARY				
F1	INTEGRITY TEST	150 PSIG	187.5/199 PSIG	35	WATER
IS	INITIAL SERVICE TEST	N.O.P.			
SW	STANDING WATER				
N	NO TEST REQUIRED (SEE NOTE B)				

NOTES:
A. VENTS AND DRAINS WITH CAPS/BLIND FLANGES ETC. (ASME CL 2 & 3, ANSI SHALL BE TESTED TO THE LAST ISOLATION VALVE.
B. NO TEST REQUIRED PER CODE CASE N-248 FOR ASME PIPING.
C. WHERE LIMITING COMPONENTS ARE REMOVED AND ARE NO LONGER WITHIN TEST BOUNDARIES THE LINE SHALL BE TESTED IN ACCORDANCE WITH CODE REQUIREMENTS.

NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20792 THRU 20796.
2. ALL PIPING, VALVES, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX "SW", AND L FOR UNIT-1, UNLESS NOTED OTHERWISE.
3. VALVES 1-SW-V27 AND V56 ARE PRESET. THESE ARE THE ONLY VALVES TO BE USED FOR FLOW BALANCING WHEN REQUIRED.
4. A FLANGED SPOOL PIECE MIN. 5 PIPE DIA. LONG WILL BE LOCATED ON THE OUTLET SIDE OF EACH THROTTLING VALVE, 4" & LARGER.
5. PLATE WELDED TO PIPE TO MAINTAIN CLEANLINESS AND FOREIGN MATERIAL EXCLUSION.
6. UNIT NO.2 S.W. SYSTEM IDENTICAL TO S.W. SYSTEM FOR UNIT NO.1 SHOWN.
7. 1-FN-51B, 2-FN-51B ARE POWERED AND CONTROLLED FROM EITHER UNITS 1 OR 2.
8. HIGH POINT VENTS TO BE LOCATED AT PIPING HIGH POINTS.
9. TWO BLIND FLANGES TO BE PROVIDED BY VENDOR FOR USE DURING HYDROTESTING UNDERGROUND PIPING LINES 1818 OR 1812.
10. SPECTACLE FLANGE-BLIND SIDE TO BE INSTALLED DURING UNIT 2 CONSTRUCTION ONLY. THROUGH FLOW SIDE TO BE INSTALLED UPON COMPLETION OF PIPING TO VALVE 2-SW-24"-V27.
11. FUTURE UNIT 2 LINES SHOWN DOTTED. FUTURE UNIT 2 2-24"-MOV TO REPLACE BLIND FLANGES AS REQUIRED.
12. INSTALL SPARE VALVES 1-24"-SW-V28 AND 1-24"-SW-V66 IN THE PLACE OF 1-24"-SW-V139 AND 1-24"-SW-V148. OPERATION IS TO BE FROM MCB.
13. VALVES 1-24"-SW-V26 AND 1-24"-SW-V55 SHALL BE CLOSED AND ADMINISTRATIVELY MAINTAINED CLOSED (ECA 88/137254)
14. FIELD WELDS ON SPOOL E-2954-725 (1-SW-1815-3-L1-76"-221) BURIED UNDER CHLORINATION BUILDING. A MAGNETIC PARTICLE EXAMINATION WILL BE PERFORMED IN LIEU OF THE HYDROSTATIC TEST. NONDESTRUCTIVE EXAMINATION (NDE) SHALL BE INCLUDED ON EACH WELD PASS. HYDROTEST FOR ALL SHOP WELDS HAS BEEN PERFORMED BY THE VENDOR. SYSTEM HYDRO TO BE PERFORMED AT A LATER DATE.
15. DELETED
16. DELETED
17. SERVICE WATER CLEANLINESS CLASS IS "D". POTABLE WATER CLEANLINESS CLASS IS "C".
18. DELETED
19. ALL MECHANICAL JOINTS FROM ALL PUMP DISCHARGE NOZZLES TO FIRST ISOLATION VALVE WILL BE GIVEN IN SERVICE TEST.
20. SO NO. 24
21. VALVES ARE QUALIFIED IN ACCORDANCE WITH PROVISIONS OF ASME III DIV.1, SUBSECTION NO-3649 ASME BOILER & PRESSURE VESSEL CODE.
22. △ INDICATES REVISION LEVEL
23. VENTS, DRAINS AND TEST CONNECTION CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER I-NH1-80511L UNLESS NOTED OTHERWISE.
24. 1 1/2"-150 # BLIND FLANGE BORED TO SUIT.
25. POLY LINER HAS BEEN REMOVED AND BELZONA APPLIED.
26. INSTRUMENTATION REFERENCES:
(A) TA LOGIC
27. THE CEMENT LINER IN THE SPOOL HAS BEEN REMOVED AND BEELZONA HAS BEEN APPLIED.

PORTIONS OF THIS DRAWING ARE

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	COE	SES	DESCRIPTION
20	7/11/99	DWS	--	MDW	BCS	MWP	PARTIAL INCORP. DCR 980010 DCN #20
19	3/30/99	BCS	—	CWS	RWS	MWM	INCORP. DCR 89-61 CA 20
18	6/18/98	DRL	—	BCS	DWS	VWS	INCORP N 100 97-521 DCN 20
17	6/18/96	DWS	—	MPW	FAC	JEV	INCORP DCR 960012 CA#3
16	11/27/95	BCS	—	MPW	MWM	JEV	INCORP. DCR 95-12 CA-B, 4
15	8/11/95	BCL	—	DWS	JWB	GAM	INCORP. MMOD 92-542 CA-2
14	6/12/95	BCL	—	DWS	MPW	DJM	INCORP. MMOD 94-578 CA-2
13	7/12/94	BCL	—		DWS	JEV	INCORP. DCR 90-008 CA-0
12	5/4/94	BCL	—	JWB	DWS	BAW	INCORP. MMOD 93-502 CA0-1
11	4/11/94	BCL	—	MPW	DWS	DMQ	INCORP. MMOD 93-517 CA0 & DELETE FLANGE (L) BY "SPECTACLE" PER 885033
10	8/6/92	BCL	—	MRB	GRM	JEV	REINCORP. MMOD 91-515 CA0
9	4/20/92	MRB	—	DWS	BCL	JEV	INCORP. MMOD 91-515 CA0
8	12/23/91	RMC	—	MRB	MPW	RRC	INCORP. DCR 90-42, CA32
7	9/11/91	MRB	JM	FCB	GPM	JEV	INCORPORATED DCR 89-81 CA0 ADDED ISO DWG NO'S & NOTE 26 DELETED ISO DWG NO'S AND BOUNDARIES
6	8/14/91	MRB	FCB	JM	GPM	BCL	INCORPORATED DCR 90-842 CA31 & MMOD 91-511 CA0 REVISED SPEC BREAKS ADDED LINE NUMBERS
5	6/18/89	GPM	RMC	MRB	PAL	RRC	REVISED LINE SIZE PER UE & C P. & ID #85-5 ADDED VENT & DR DESIGNATION PER UE & C DWG. 202363 & 202364 NOTE 24 PER UE & C P. & ID 885819 DELETED NOTE 18 & J DESIGNATION

REF. DRAWING NO.	REV	TITLE
9763-F-900146	7	SERVICE WATER SYS. NUCLEAR MTD
9763-F-900159	5	SERVICE WATER SYS. NUCLEAR MTD
9763-F-205033	10	SW-NUCLEAR, P&ID.
9763-F-885819	20	SW-NUCLEAR, P&ID.

North Atlantic Energy Service Corporation

SEABROOK STATION

SERVICE WATER SYSTEM NUCLEAR DETAIL

PID- 1-SW-D20794

07/08/99

D-71