FOR INFORMATION ONLY

P1D- 1-DG-D20461

DIESEL ENGINE COOLING WATER SKD-7A

DIESEL ENGINE DG-1A JACKET COOLING WATER

DIESEL ENGINE DG-1A AIR COOLER WATER

JACKET COOLANT PUMP ENG. DRIVEN P-121A

JACKET COOLANT STANDBY CIRC. PUMP MOTOR DRIVEN P-120A

AUXILIARY COOLANT PUMP MOTOR DRIVEN P-122A

AIR COOLANT PUMP ENG. DRIVEN P-231A

LUBE OIL HT EXCH E-41A

D.G. COMP COOLING WATER HEAT EXCH E-42A

EXPANSION TANK TK-46A 240 GAL

JACKET COOLANT HEATER H-2A

SEE DETAIL 'A'

SEE DETAIL 'B'

SEE NOTE

FLUSH CONN. TYP.

SERVICE WATER SYS. 20795

DG COOLING 20466 WATER SYS.

DETAIL 'A'

DETAIL 'B'

FUEL INJECTORS (TYP.) WATER COOLED

WATER SIGHT GLASS (TYP.)

TO V90A

FROM V145A

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				
E4	INTEGRITY TEST (IS)	150 PSIG	225/245 PSIG	35	WATER
SW	STANDING WATER				
F4	INTEGRITY TEST	70 PSIG	94/108 PSIG	35	WATER
G6	INTEGRITY TEST	50 PSIG	62.5/66 PSIG	35	WATER
F1	INTEGRITY TEST	150 PSIG	187.5/199 PSIG	35	WATER
N	NO TEST REQUIRED				
K9	INTEGRITY TEST	100 PSIG	100/110 PSIG	35	WATER

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

NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20456, 20457, 20458, 20459, 20460, 20462 & 20466.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTATION HAVE SYSTEM PREFIX DG, UNLESS NOTED OTHERWISE.
3. DELETED
4. VENT & DRAIN CODE AND SAFETY CLASS BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-NHY-88511, UNLESS NOTED OTHERWISE.
5. △ INDICATES REVISION LEVEL.
6. SO NO. IS SO-10
7. THIS VALVE HAS BEEN STAKED IN A PRE-DETERMINED THROTTLED POSITION.

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
12	6/1/98	DRL	—	Bass	mfw	JWS	INCORP MMOD 97-521 DCN 00
11	10/30/95	BCL	—	MPW	MRB	GRM	INCORP DCR 94012 CA*0, 01 & REINCORP. NCR 74/25304
10	12/9/94	DWS	—	BCL	MPW	MHO	INCORP MMOD 930545 CA*0
9	5/27/94	BCL	—	MPW	JCM	GRM	INCORP MMOD 94-586 CA0 & MMOD 92-546 CA-0
8	10/22/93	MRB	—	BCL	DWS	GRM	INCORP MMOD 92-956 CA0 AND PARTIAL INCORP MMOD 92-546 CA0
7	4/23/92	MRB	—	BCL	JEV	RRB	INCORP MMOD'S 91-515 CA0 & 91-622 CA0
6	10/29/89	MRB	FCB	JM	APL	BCL	INCORP MMOD 90-681 CA00
5	12/2/88	MRB	RMC	GPM	APL	GRM	INCORPORATED DCR 88-122, CA0 REVISED↓ PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS & INTERFACES. LEGEND NOTE A DELETED INTEGRITY TEST SYMBOL, CLASS BREAK AND SYSTEM CLASS DESIGNATION.
4	8/31/88	GPM	RMC	APL	BCL	GRM	INCORP. DCR 88-25 CA2 REVISED LEGEND NOTE A PER 9763-F-900000 AND ANSI B31.1 '77 SF 137.1.25, NOTE 4 ADDED NOTE 7 DELETED TEST BOUNDARY'S AND NMS-1 CL BOUNDARY
3	3/6/87	MRJ	HIW	OPO	BCL	RRC	CORRECTED DRAFTING ERROR BY ADDING VALVE TAG NO.
2	2/18/87	JDM	OPO	MPW	BCL	VWS	SBP-86-876 YAEC REVISED CONFIG PER REVISED SAFETY CLASS PER MEMO FP 20588 & FP 22574 CORRECTED TAG NUMBER OF TI-9548 PER DISPOSITION OF CAR 86-224.
1	10/10/86	PAL	OPO	BCL	VNK	RRC	TI-9548 CORRECTED ID TI-9546 & ADDED CHANGE ITEM NO.1 PER CAR 86-224, CORRECTED CLASS BREAK SHOWN IN SECTION 'A-A' & CORRECTED THE NOTE 4 CLARIFICATION. ALSO ADDED NOTE 7 & CHANGED VALVE NO. V248 TO V248A, ADDED TYPE & LINE NO. FOR MV-13604, RELOCATED FI-9542
0	6/27/86	DWS	YAEC CAEC	VNK	JWS	RRC	ISSUED FOR OPERATIONS

REF. DRAWING NO.	REV	TITLE
9763-F-900038	4	DIESEL GENERATOR COOLING WATER - MITO
FP 21175	4	DG COOLANT BACKUP JW PMP. & MTR. OUTLINE
FP 20899	9	EMERG. DG SKID GEN. ARRGMNT
FP 21869	7	EFWP PUMP ASSEMBLY
9763-F-202103	14	DIESEL GENERATOR COOLING WATER - P&ID

North Atlantic Energy Service Corporation

SEABROOK STATION

DIESEL GENERATOR COOLING WATER SYSTEM TRAIN 'A' DETAIL

PID- 1-DG-D20461

5/13/98

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