

CHAPTER 11

WATERTIGHT INTEGRITY BILL
(PLATES III)

GENERAL:-

11-1

Watertight Integrity is a phase of Damage Control.

The Watertight Integrity Bill provides for an orderly procedure to be followed in the routine and emergency closures of all watertight openings on the ship. It lists the watertight openings to be closed under the material conditions of readiness and assigns the personnel responsible for these closures.

11-2

MATERIAL CONDITIONS OF READINESS:-

The LSM is a two condition ship. Material Condition "BAKER" and Material Condition "ABLE."

(a) Material Condition "BAKER"

Condition "BAKER" is the first of two progressive steps in the closure of a two-condition ship. It is the condition required at all times at sea during war when accessibility and living requirements preclude maintaining watertight integrity at a maximum. It is also to be maintained in port when danger from mines, bombs, or torpedoes may exist.

(b) Material Condition "ABLE"

Condition "ABLE" is the final of two progressive steps in the closure of a two-condition ship. It is the condition set whenever "General Quarters" is sounded.

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CLASSIFICATION OF FITTINGS:-

The Classification of Fittings is the system used for marking doors, hatches, fittings, systems, covers, valves, etc., that are closed in the different material conditions. This is done by labeling fittings with letters "X", "Y", "Z", or "W".

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11-3 CLASSIFICATION OF FITTINGS:-

(a) Class "X" - Assigned to doors, hatches, fittings, and valves that should be closed at all times, except during such periods as repairs, issuance of stores, cleaning, etc., necessitate that they be open. If practicable, no fittings in spaces closed by "X" doors or hatches should be classified other than "X". If other classification of such fittings is necessary, their existence should be clearly marked on the door or hatch affected. Class "X" is normally assigned to the following:

1. Entrance to Magazines.
2. Double Bottoms.
3. Voids.
4. Cofferdams.
5. Peak Tanks.
6. Oil and Water Tanks.
7. Storerooms.
8. Scuttles and Manholes.
9. Alternate hatches of those in vertical series as practicable to eliminate unobstructed passage through successive decks.
10. Other doors and hatches on and below the Main Deck not required for operations or continual use.

(b) Class "Y" - Assigned to doors, hatches, fittings systems, and valves necessary for Condition "BAKER" and to permit the setting of Condition "ABLE" expeditiously. Class "Y" is normally assigned to the following:

1. One of two accesses to living compartments and machinery spaces.
2. Entrance to interior spaces in which activities will be secured during war cruising.
3. One half the doors and hatches on the Main and Superstructure Decks.

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CLASSIFICATION OF FITTINGS:-

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- (c) Class "Z" - Assigned to doors, hatches, fittings, systems and valves that normally are required open for the operation of the ship, for access to battle stations and for habitability but which must be closed in action or during emergency.
- (d) Class "W" - Assigned to doors, hatches, systems, and valves which must be open during action in order to fight the ship. They must be kept to a minimum. No armored hatches may be marked "W".

Whenever watertight openings are closed, they should be properly secured. Dogs fitted with nuts must be dogged wrench tight and evenly all round; similarly, hand dogs must be evenly set up, hand-tight. Men assigned to closing compartments must be sure that no personnel are in the compartments before securing them.

There are no closures on the ventilating system. It is therefore unnecessary to shut down blowers except in case of fire or gas attack.

11-4 CONDITIONS OF CLOSURE:

- (a) Condition "BAKER"

The fittings and systems closed or secured under Condition "BAKER" comprise all of those marked "X" and "Y"; those marked "Z" and "W" are left open.

- (b) Condition "ABLE"

The fittings and systems closed or secured under Condition "ABLE" comprise all those marked "X", "Y" and "Z"; those marked "W" are left open.

11-5 PROCEDURE FOR SETTING MATERIAL CONDITIONS OF READINESS:-

- (a) Condition "BAKER" - Boatswain's Mate passes word "Set Material Condition 'BAKER'."

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11-5 PROCEDURE FOR SETTING MATERIAL CONDITIONS OF READINESS:-

(b) Condition "ABLE" - is set immediately and without further orders when manning General Quarters stations.

11-6 STATION ASSIGNMENTS:-

(a) Group Closures

In order to facilitate and expedite the going from one material condition of readiness to the other, the ship is divided into a series of Ten Group Closures. This system provides for the closure of all "X", "Y" and "Z" fittings in a progressive manner and the personnel assigned to each group will be responsible for the proper closures within that group and for the material condition set.

Group Closures for all "X", "Y" and "Z" fittings and the "W" fittings that are to remain open in action, are given in TABLE 11-1 below:

TABLE 11-1

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP ONE</u>							
1	Valve	Ballast Trans. A-207W	S	Hold	11-12	A-208L	X
2	Valve	F.M. cut-out 2-12	S	Hold	12-13	A-208L	W
3	Valve	Ballast Trans. or D.O. Suct. A-903F	S	Hold	13-14	A-208L	X

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ORDER OF CLOSURE

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP ONE							
4	Valve	Ballast Trans. A-205W	P	Hold	11-12	A-208L	X
5	Valve	D.Gen. S.W. Suct. fr. Ballast Tk. A-205W	P	Hold	11-12	A-208L	X
6	Valve	Ballast Trans. A-206W	P	Hold	12-13	A-208L	X
7	Valve	Ballast Trans. or D.O. Suct. A-902F	P	Hold	12-13	A-208L	X
8	Valve	Ballast Trans. or D.O. Suct. A-904F	P	Hold	13-14	A-208L	X
9	Door	D-2-13	P	Hold	13	A-208L to A-209M	X
10	Valve	F.M. cut-out 1-9	S	Main	8-9	A-101EV	W
11	Door	D-1-9-1	S	Main	9	A-103L to A-101EV	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION					CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPART-MENT		
<u>GROUP ONE</u>								
12	Valve	Sounding A-205W	S	Main	9-10	A-103L	X	
13	Valve	Sounding A-207W	S	Main	9-10	A-103L	X	
14	Door	D-1-14-1	S	Main	14	A-103-1/2L	X	
15	Hatch	H-01-13-1	S	Super.	13	Weather to A-103L	Z	
16	Plate	Sounding A-203V	S	Super.	7-8	Weather	X	
<u>GROUP TWO</u>								
1	Valve	Bilge Drain void space C-201V	P	Main	7-8	A-102AE	X	
2	Valve	Bilge Drain void space C-202V	P	Main	7-8	A-102AE	X	
3	Valve	F.M. Disch. to Eductor	P	Main	7-8	A-102AE	X	
4	Valve	Eductor Ovb'd. Disch. Chain lkr. & Fw'd. Bilge Dr.	P	Main	7-8	A-102AE	X	

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP TWO							
5	Valve	Chain Locker Drain A-204F	P	Main	7-8	A-102AE	X
6	Valve	Bilge Drain void space A-203V	P	Main	7-8	A-102AE	X
7	Manhole	M-1-8-2	P	Main	8	A-102AE	Z
8	Door	D-1-9-2	P	Main	9	A-104EL to A-102AE	X
9	Valve	Sounding A-206W	P	Main	9-10	A-104EL	X
10	Door	D-1-13	P	Main	13-14	A-104EL	Z
11	Valve	F.M. cut- out 1-15-2	P	Main	14-15	A-104- 1/2EL	W
12	Valve	F.M. cut- out 1-15-8	P	Main	14-15	A-104- 1/2EL	X
13	Door	D-1-14-2	P	Main	14	A-104- 1/2EL	X
14	Hatch	H-01-13-2	P	Super.	13	Weather to A-104EL	Z
15	Cap	D.O. Filling A-904F	P	Super.	13-14	Weather	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

11-6 ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	P/S	LOCATION			CLOSURE CLASSI- FICATION
				DECK	FRAME NO.	COMPART- MENT	
<u>GROUP TWO</u>							
16	Cap	D.O. Filling A-902F	P	Super.	13-14	Weather	X
17	Cap	D.O. Filling A-906F	P	Super.	15-16	Weather	X
<u>GROUP THREE</u>							
1	Manhole	M-02-3	P	Foc'sl	3	Weather to A-102AE	X
2	Plate	Sounding A-201V	P	Super.	5-6	Weather	X
3	Plate	Sounding A-202V	P	Tank Well	6-7	Weather	X
4	Plate	Sounding A-902F	P	Tank Well	11-12	Weather	X
5	Plate	Sounding A-904F	P	Tank Well	11-12	Weather	X
6	Plate	Sounding A-903F	S	Tank Well	11-12	Weather	X
7	Cap	D.O. Filling A-903F	S	Super.	13-14	Weather	X
8	Cap	D.O. Filling A-907F	S	Super.	15-16	Weather	X
9	Cap	D.O. Filling A-905F	S	Super.	15-16	Weather	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP THREE							
10	Cap	D.O. Filling A-909F	S	Super.	19-20	Weather	X
GROUP FOUR							
1	Valve	F.M. cut-out 2-18-1	S	Hold	18-19	A-211-5AC	W
2	Valve	Sounding A-905F	S	Main	14-15	A-103-1/2L	X
3	Valve	F.M. cut-out 1-15-5	S	Main	15-16	A-103-1/2L	X
4	Door	D-1-19-1	S	Main	19	B-1	X
5	Door	D-1-17-3	S	Main	17	Tank Well to A-103-1/2L	Z
6	Plate	Sounding A-909F	S	Tank Well	17-18	Weather	X
7	Plate	Sounding A-907F	S	Tank Well	14-15	Weather	X
8	Plate	Sounding A-906F	P	Tank Well	14-15	Weather	X
9	Plate	Sounding A-908F	P	Tank Well	17-18	Weather	X
10	Plate	Sounding A-910F	P	Tank Well	17-18	Weather	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP FOUR</u>							
11	Cap	D.O. Filling A-908F	P	Super.	17-18	Weather	X
12	Cap	D.O. Filling A-910F	P	Super.	17-18	Weather	X
13	Cap	D.O. Deck Filling	P	Super.	19-20	Weather	X
<u>GROUP FIVE</u>							
1	Valve	F.M. cut- out 2-14-2	P	Hold	14-15	A-210L	W
2	Valve	F.M. cut- out 2-15-2	P	Hold	15-16	A-210L	W
3	Valve	Ballast Trans. or D.O. Suct. A-907F	P	Hold	16-17	A-210L	X
4	Valve	Ballast Trans. or D.O. Suct. A-905F	P	Hold	16-17	A-210L	X
5	Valve	Ballast Trans. or D.O. Suct. A-906F	P	Hold	16-17	A-210L	X
6	Valve	F.M. cut- out 2-15-1	S	Hold	15-16	A-210L	W

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP FIVE</u>							
7	Valve	F.M. cut-out 2-14-1	S	Hold	14-15	A-210L	W
8	Valve	F.M. cut-out 2-18-2	P	Hold	18-19	A-211-2AE	W
9	Door	D-2-17-1	S	Hold	17	A-211-1A to A-211-3A	X
10	Door	D-2-17-2	P	Hold	17	A-211-2AE to A-211-1A	X
11	Door	D-1-18	P	Main	18	Tank Well to A-104-1/2EL	Z
12	Door	D-1-19-2	P	Main	19	B-1	X
<u>GROUP SIX</u>							
1	Valve	F.M. cut-out 2-24-1	S	Hold	24-25	C-201EL	W
2	Valve	F.M. cut-out 2-24-3	S	Hold	25-26	C-201EL	W
3	Valve	Sounding C-902W	S	Hold	26-27	C-201EL	X
4	Door	D-2-26	S	Hold	26	C-201EL to C-207M	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP SIX</u>							
5	Hatch	H-1-26-1	S	Main	26-27	C-101-1/2E to C-201EL	Z
6	Manhole	M-1-26-1	S	Main	26-27	C-101-1/2E to C-201EL	Z
7	Valve	F.M. cut-out 1-25-1	S	Main	26-27	C-101-1/2E	W
8	Hatch	H-01-26-1	S	Super.	26	C-101-1/2E	Z
9	Plate	Sounding C-205V	S	Super.	27-28	Weather	X
10	Cap	D.O. Filling C-203F	S	Super.	27-28	Weather	X
<u>GROUP SEVEN</u>							
1	Valve	F.W. Tk. C-901W cut-out 2-25-24	P	Hold	24-25	C-201EL	Z
2	Valve	F.W. Tk. C-902W cut-out 2-25-2	P	Hold	25-26	C-201EL	Z
3	Valve	F.M. cut-out 2-24-2	P	Hold	25-26	C-201EL	W
4	Valve	F.M. cut-out 2-25	P	Hold	25-26	C-201EL	W

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ORDER OF CLOSURE
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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP SEVEN</u>							
5	Valve	Sounding C-901W	P	Hold	26-27	C-201EL	X
6	Hatch	H-1-26-2	P	Main	26-27	C-102-1/2AE to C-201EL	Z
7	Manhole	M-1-26-2	P	Main	26-27	C-102-1/2AE to C-201EL	Z
8	Valve	F.M. cut-out 1-25-2	P	Main	25-26	C-102-1/2AE	W
9	Valve	F.M. cut-out 1-23-6	P	Main	23-24	B-1	W
10	Door	D-1-24-2	P	Main	24	B-1 to C-102-1/2AE	X
11	Door	D-1-29	P	Main	29	C-102AE to Weather	Y
12	Door	D-1-27-2	P	Main	27	C-102-1/2AE to C-102A	Y
13	Hatch	H-01-26-2	P	Super.	26	Weather to C-102-1/2AE	Z
<u>GROUP EIGHT</u>							
1	Valve	F.M. cut-out 1-23-5	S	Main	23-24	B-1	W

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
<u>GROUP EIGHT</u>							
2	Door	D-1-24-1	S	Main	24	B-1 to C-101-1/2E	X
3	Door	D-1-27-1	S	Main	27	C-101-1/2E to C-101AT	X
4	Door	D-1-27-3	S	Main	27	Tank Well to C-101AT	Y
5	Plate	Sounding C-203F	P	Tank Well	27-28	Weather	X
<u>GROUP NINE</u>							
1	Door	D-01-19	S	Super.	19	A-101CL to Weather	Y
2	Door	D-02-17-1	S	Bridge	17	A-0101CL to Weather	Z
3	Door	D-03-17	S	Wheel House	17	A-0301C to Weather	Z
<u>GROUP TEN</u>							
1	Valve	F.M. cut-out 2-20-1	S	Hold	19-20	B-1	W

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP TEN							
2	Valve	F.M. cut-out 2-20-3	S	Hold	19-20	B-1	W
3	Valve	F. & F. Pump No. 1 Sea Suct.	S	Hold	19-20	B-1	W
4	Valve	S.W. to Foam Gen. No. 1	S	Hold	19-20	B-1	X
5	Valve	S.W. to Bilge Eductor	S	Hold	19-20	B-1	X
6	Valve	Bilge Drain Eng. Rm.	S	Hold	19-20	B-1	X
7	Valve	Fire Main to Sanitary Syst.	S	Hold	19-20	B-1	Z
8	Valve	Fire Main to Sanitary Syst. By-Pass	S	Hold	19-20	B-1	Z
9	Valve	Diesel Oil A-909F Suct.	S	Hold	19-20	B-1	X
10	Valve	D.O. or Ball. A-907F Suct.	S	Hold	19-20	B-1	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

11-6 ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSI- FICATION
			P/S	DECK	FRAME NO.	COMPART- MENT	
GROUP TEN							
11	Valve	D.O. or Ball.A-905F Suct.	S	Hold	19-20	B-1	X
12	Valve	D.O. or Ball.A-903F Suct.	S	Hold	19-20	B-1	X
13	Valve	Diesel Oil A-908F Suct.	S	Hold	19-20	B-1	X
14	Valve	Diesel Oil A-909F Filling	S	Hold	19-20	B-1	X
15	Valve	D.O. or Ball.A-907F Filling	S	Hold	19-20	B-1	X
16	Valve	D.O. or Ball.A-905F Filling	S	Hold	19-20	B-1	X
17	Valve	D.O. or Ball.A-903F Filling	S	Hold	19-20	B-1	X
18	Valve	Diesel Oil A-908F Filling	S	Hold	19-20	B-1	X
19	Valve	F.O. Suct. & Trans. Ovb'd. Disch.	S	Hold	19-20	B-1	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP TEN							
20	Valve	Sea Suction	S	Hold	19-20	B-1	X
21	Valve	Main Injection Tube	S	Hold	19-20	B-1	X
22	Valve	Eductor Ovb'd. Disch. Mn. Bilge Drain Stb'd.	S	Hold	23-24	B-1	X
23	Valve	Bilge Drain Eng. Rm.	S	Hold	23-24	B-1	X
24	Valve	Bilge Drain Aux. Mach. space C-201EL	S	Hold	24-25	B-1	X
25	Valve	Bilge Drain Eng. Rm.	S	Hold	24-25	B-1	X
26	Valve	Bilge Drain void space C-205V	S	Hold	24-25	B-1	X
27	Valve	F.M. cut-out 2-20-2	P	Hold	19-20	B-1	W
28	Valve	F.M. cut-out 2-20-4	P	Hold	19-20	B-1	W
29	Valve	F. & F. Pump No. 2 Sea Suct.	P	Hold	19-20	B-1	W

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
11-6 30	Valve	S.W. to Foam Gen. No. 2	P	Hold	19-20	B-1	X
31	Valve	S.W. to Bilge Eductor	P	Hold	19-20	B-1	X
32	Valve	Bilge Drain Eng. Rm.	P	Hold	19-20	B-1	X
33	Valve	Diesel Oil C-203F Suct.	P	Hold	19-20	B-1	X
34	Valve	Diesel Oil A-910F Suct.	P	Hold	19-20	B-1	X
35	Valve	D.O. or Ball.A-906F Suct.	P	Hold	19-20	B-1	X
36	Valve	D.O. or Ball.A-914F Suct.	P	Hold	19-20	B-1	X
37	Valve	D.O. or Ball.A-902F Suct.	P	Hold	19-20	B-1	X
38	Valve	Diesel Oil C-203F Filling	P	Hold	19-20	B-1	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	LOCATION				CLOSURE CLASSIFICATION
			P/S	DECK	FRAME NO.	COMPARTMENT	
GROUP TEN							
39	Valve	Diesel Oil A-910F Filling	P	Hold	19-20	B-1	X
40	Valve	D.O. or Ball. A-906F Filling	P	Hold	19-20	B-1	X
41	Valve	D.O. or Ball. A-904F Filling	P	Hold	19-20	B-1	X
42	Valve	D.O. or Ball. A-902F Filling	P	Hold	19-20	B-1	X
43	Valve	D. Gen. No. 1 & 2 S.W. Suct. Clean Ball. Tk. A-205W	P	Hold	19-20	B-1	X
44	Valve	Sea Suction	P	Hold	19-20	B-1	X
45	Valve	Clean Ball. Ovb'd. Disch.	P	Hold	19-20	B-1	X
46	Valve	Emerg. Bilge Suction	P	Hold	19-20	B-1	X
47	Valve	D.O. Trans. Pump Disch. to Serv. Tanks	P	Hold	22-23	B-1	X

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TABLE 11-1 (cont'd.)

GROUP CLOSURES

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ORDER OF CLOSURE	TYPE OF FITTING	INSCRIPTION	P/S	LOCATION			CLOSURE CLASSIFICATION
				DECK	FRAME NO.	COMPARTMENT	
GROUP TEN							
48	Valve	Clean D.O. A-906F Filling	P	Hold	23-24	B-1	X
49	Valve	Eductor Ovb'd. Disch. Mn. Bilge Drain port	P	Hold	23-24	B-1	X
50	Valve	Bilge Drain Eng. Rm.	P	Hold	23-24	B-1	X
51	Valve	Bilge Drain Aux. Mach. space A-201EL	P	Hold	24-25	B-1	X
52	Valve	Bilge Drain Aux. Mach. spare parts C-204A	P	Hold	24-25	B-1	X
53	Valve	Diesel Oil Trans. C-203F	P	Hold	24-25	B-1	X

(b) Condition "BAKER"

When in port and while cruising, the ship normally will remain in Condition "BAKER." In this condition of material readiness all "X" and "Y" fittings will be closed; all "Z" and "W" fittings will be open.

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11

LSM CLASS

RA
GB
Sea
Sea
Sea
Sea
StM

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WATERTIGHT INTEGRITY BILL

11-6 STATION ASSIGNMENTS:-

(b) (cont'd.)

Each watch section, in port and at sea, will have a complete closure detail for closing all "X" and "Y" fittings. In port, this detail will be furnished by the section on watch; at sea, the detail will be furnished by the sections off watch. Group Closures (see TABLE 11-1) with personnel assignments for these groups is given in TABLE 11-2 below:

TABLE 11-2

PERSONNEL ASSIGNMENTS

FIRST SECTION		CLOSURE GROUP	SECOND SECTION	
RATE	DUTIES		RATE	DUTIES
GBM	Inspecting Petty Officer	Groups 1,2,3,4,5,6,7 & 8	BM1c	Inspecting Petty Officer
Sealc Sea2c	Closes all "X" fittings within Group One; "Z" & "W" fittings open	Group One	Sealc Sea2c	Closes all "X" fittings within Group One; "Z" & "W" fittings open
Sealc	Closes all "X" fittings within Group Two; "Z" & "W" fittings open	Group Two	Sealc	Closes all "X" fittings within Group Two; "Z" & "W" fittings open
Sea2c	Closes all "X" fittings within Group Three	Group Three	Sea2c	Closes all "X" fittings within Group Three
StM2c	Closes all "X" fittings within Group Four; "Z" & "W" fittings open	Group Four	StM1c	Closes all "X" fittings within Group Four; "Z" & "W" fittings open

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LHM CLASS

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TABLE 11-2 (cont'd.)

PERSONNEL ASSIGNMENTS

11-6

FIRST SECTION DUTIES		CLOSURE GROUP	SECOND SECTION DUTIES	
RATE			RATE	
Y2c	Closes all "X" fittings within Group Five; "Z" & "W" fittings open	Group Five	SK1c	Closes all "X" fittings within Group Five; "Z" & "W" fittings open
MoMM3c EM3c	Closes all "X" fittings within Group Six; "Z" & "W" fittings open	Group Six	EM1c MoMM3c	Closes all "X" fittings within Group Six; "Z" & "W" fittings open
Flc Flc	Closes all "X" & "Y" fittings within Group Seven; "Z" & "W" fittings open	Group Seven	MoMM3c Flc	Closes all "X" & "Y" fittings within Group Seven; "Z" & "W" fittings open
F2c	Closes all "X" & "Y" fittings within Group Eight; "Z" fittings open	Group Eight	F2c	Closes all "X" & "Y" fittings within Group Eight; "Z" fittings open
QM1c	Inspecting Petty Officer	Group Nine	QM3c	Inspecting Petty Officer
SM2c	Closes "Y" fittings; "Z" fittings open	Group Nine	SM3c	Closes "Y" fittings; "Z" fittings open
MoMM1c	Inspecting Petty Officer	Group Ten	CMoMM	Inspecting Petty Officer

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11-6

RATE	F
Eng. Room Watch	

LSM CT 5

P/S	F
S	D
P	D
P	M
S	D

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WATERTIGHT INTEGRITY BILL

TABLE 11-2 (cont'd.)

PERSONNEL ASSIGNMENTS

11-6

RATE	FIRST SECTION DUTIES	CLOSURE GROUP	SECOND SECTION DUTIES	
			RATE	
Eng. Room Watch	Closes all "X" fittings within Group Ten; "Z" & "W" fittings open	Group Ten	Eng. Room Watch	Closes all "X" fittings within Group Ten; "Z" & "W" fittings open

No "X" fitting will be opened without first securing the permission of the Commanding Officer. Exception to this are those watertight compartments which must be entered frequently for operational reasons. These compartments may be entered without permission, when necessary, provided that when a man enters or leaves one of them he must immediately close and secure the door or hatch used. No "X" or "Y" fitting will be opened between the hours of 2000 or 0800 except for passage of the watch or for authorized personnel making routine inspections. A list of these compartments, with the doors and hatches to be used when entering or leaving them is given in TABLE 11-3 below:

TABLE 11-3

LOCATION

P/S	FITTING	FITTING NUMBER	DECK	COMPARTMENT	CLOSURE CLASSIFICATION
S	Door	D-2-17-1	Hold	A-211-1A to A-211-3A	X
P	Door	D-2-17-2	Hold	A-211-2AE to A-211-1A	X
P	Manhole	M-1-8-2	Main	A-102AE to A-204E	X
S	Door	D-1-9-1	Main	A-103L to A-101EV	X

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ISM Class

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TABLE 11-3 (cont'd.)

LOCATION

11-6

P/S	FITTING	FITTING NUMBER	DECK	COMPARTMENT	CLOSURE CLASSIFICATION
P	Door	D-1-9-2	Main	A-104EL to A-102AE	X
S	Door	D-1-14-1	Main	A-103-1/2L to A-103L	X
P	Door	D-1-14-2	Main	A-104-1/2EL to A-104EL	X
S	Door	D-1-19-1	Main	A-103-1/2L to B-1	X
P	Door	D-1-19-2	Main	A-104-1/2EL to B-1	X
S	Door	D-1-27-1	Main	C-101-1/2E to C-101AT	X
P	Door	D-1-27-2	Main	C-102-1/2A to C-102A	X
P	Manhole	M-02-3	Focs'l	Weather to A-102AE	X

(c) Condition "ABLE"

The ship, during General Quarters and in Land and Retracting operations, will always be in Material Condition "ABLE". In this condition, all "X", "Y", and "Z" fittings will be closed; all "W" fittings will be open.

In port and at sea, the forward and after repair parties will furnish the closure details for Groups One to Eight inclusive. All closures in Group Nine will be made by personnel having battle stations on the bridge. The personnel assignments for the closures in all groups is given in TABLE 11-4 following:

When secure from General Quarters is sounded, the same personnel will proceed to open all the "Z" fittings in their respective groups.

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11-6

RATE
CBM
Sealc Sea2c
RM3c
MoMM3c
F1c
MoMM2c
BM1c
EM3c
Sea2c
Sea2c

LSM CLASS

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TABLE 11-4

PERSONNEL ASSIGNMENTS

11-6 RATE	DUTIES	CLOSURE GROUP
<u>FORWARD REPAIR PARTY</u>		
CBM	Inspecting Petty Officer	Groups 1,2,3, 4 & 5
Sealc Sea2c	Closes all "X" & "Z" fittings within Group One; all "W" fittings open	Group One
EM3c	Closes all "X" & "Z" fittings within Group Two; "W" fittings open	Group Two
MoMM3c	Closes all "X" fittings within Group Three	Group Three
Flc	Closes all "X" & "Z" fittings within Group Four; "W" fittings open	Group Four
MoMM2c	Closes all "X" & "Z" fittings within Group Five; "W" fittings open	Group Five
<u>AFTER REPAIR PARTY</u>		
BM1c	Inspecting Petty Officer	Groups 6,7, & 8
EM3c	Closes all "X" & "Z" fittings within Group Six; "W" fittings open	Group Six
Sea2c	Closes all "X", "Y" & "Z" fittings within Group Seven; "W" fittings open	Group Seven
Sea2c	Closes all "X", "Y" & "Z" fittings within Group Eight; "W" fittings open	Group Eight

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WATERTIGHT INTEGRITY BILL

TABLE 11-4 (cont'd.)

PERSONNEL ASSIGNMENTS

11-6		DUTIES	CLOSURE GROUP
		<u>BRIDGE PARTY</u>	
QM1c	Inspecting Petty Officer		Group Nine
SM3c	Closes all "Y" & "Z" fittings within Group Nine		Group Nine
		<u>ENGINE ROOM WATCH</u>	
CMoMM	Inspecting Petty Officer		Group Ten
Engine Room Watch	Close all "X" & "Z" fittings within Group Ten; "W" fittings open		Group Ten

11-7 WATERTIGHT CLOSURES:

A complete listing of all "X", "Y" and "Z" fittings, also "W" fittings, is given in TABLES 11-5 and 11-6 below:

TABLE 11-5

DOORS

P/S	LOCATION			CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
	DOOR	DECK	COMPARTMENT		
P	D-2-13	Hold	A-208L to A-209M	X	Group 1
S	D-2-17-1	Hold	A-211-1A to A-211-3A	X	Group 5
P	D-2-17-2	Hold	A-211-2AE to A-211-1A	X	Group 5
S	D-2-26	Hold	C-201EL to C-202M	X	Group 6
S	D-1-9-1	Main	A-103L to A-101EV	X	Group 1
P	D-1-9-2	Main	A-104EL to A-102AE	X	Group 2

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11-7

P/S	DOOR
P	D-1-
S	D-1-
P	D-1-
S	D-1-
P	D-1-
S	D-1-
P	D-1-
P	D-1-
S	D-1-
S	D-1-
P	D-1-
P	D-1-
S	D-1-
S	D-01
S	D-02 1
S	D-03

NOTE: A
c

CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-5 (cont'd.)

DOORS

11-7

P/S	LOCATION			CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
	DOOR	DECK	COMPARTMENT		
P	D-1-13	Main	A-104EL to Tank Well	Z	Group 2
S	D-1-14-1	Main	A-103-1/2L to A-103L	X	Group 1
P	D-1-14-2	Main	A-104-1/2EL to A-104EL	X	Group 2
S	D-1-17-3	Main	Tank Well to A-103-1/2L	Z	Group 4
P	D-1-18	Main	Tank Well to A-104-1/2EL	Z	Group 5
S	D-1-19-1	Main	A-103-1/2L to B-1	X	Group 4
P	D-1-19-2	Main	A-104-1/2EL to B-1	X	Group 5
P	D-1-27-2	Main	C-101-1/2E to C-102A	Y	Group 7
S	D-1-27-1	Main	C-102-1/2A to C-101AT	X	Group 8
S	D-1-27-3	Main	Tank Well to C-101AT	Y	Group 8
P	D-1-29	Main	C-102A to Weather	Y	Group 7
P	D-1-24-2	Main	B-1 to C-102-1/2A	X	Group 7
S	D-1-24-1	Main	B-1 to C-101-1/2E	X	Group 8
S	D-01-19	Super.	A-0101CL to Weather	Y	Group 9
S	D-02-17-1	Bridge	A-0101CL to Weather	Z	Group 9
S	D-03-17	Wheel-house	A-0301C to Weather	Z	Group 9

NOTE: All other doors are non-watertight and have no closure classification.

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WATERTIGHT INTEGRITY BILL

TABLE 11-5 (cont'd.)

HATCHES

P/S	LOCATION			CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
	DOOR NO.	DECK	COMPARTMENT		
S	H-01-13-1	Super.	Weather to A-103L	Z	Group 1
P	H-01-13-2	Super.	Weather to A-104EL	Z	Group 2
S	H-01-26-1	Super.	Weather to C-101-1/2E	Z	Group 6
P	H-01-26-2	Super.	Weather to C-102-1/2AE	Z	Group 7
S	H-1-26-1	Main	C-101-1/2E to C-201EL	Z	Group 6
P	H-1-26-2	Main	C-102-1/2A to C-201EL	Z	Group 7
NOTE: All other hatches are open coamings.					
<u>MANHOLES</u>					
P	M-1-8-2	Main	A-102AE to A-204E	Z	Group 2
P	M-02-3	Focs'l	Weather to A-102AE	X	Group 3
S	M-1-26-1	Main	C-101-1/2E to C-201EL	Z	Group 6
P	M-1-26-2	Main	C-102-1/2A to C-201EL	Z	Group 7

NOTE: The above manholes are quick acting hinged type. All other manholes are bolted and will be opened only on the authority of the Commanding Officer. When opened, their closure will be reported also to Commanding Officer. They should never be opened between the hours of 2000 and 0800.

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11-7

P/S	I
P	S
P	A-
S	So
S	A-
S	So
S	C-
P	So
P	A-
S	So
S	A-
P	So
P	A-

LSM 011

CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Sounding A-202V	Super.	6-7	Weather	Sounding Tube to Void Space A-202V	X	Group 3
S	Sounding A-203V	Super.	7-8	Weather	Sounding Tube to Void Space A-203V	X	Group 1
S	Sounding C-205V	Super.	27-28	Weather	Sounding Tube to Void Space A-205V	X	Group 6
P	Sounding A-201V	Main	5-6	Tank Well	Sounding Tube to Void Space A-201V	X	Group 3
S	Sounding A-205W	Main	9-10	A-103L	Sounding Tube to Ballast Tank A-205W	X	Group 1
P	Sounding A-206W	Main	9-10	A-104EL	Sounding Tube to Ballast Tank A-206W	X	Group 2

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	Sounding A-207W	Main	9-10	A-103L	Sounding Tube to Ballast Tank A-207W	X	Group 1
P	Sounding A-902F	Main	11-12	Tank Well	Sounding Tube to D.O. or Ballast Tank A-902F	X	Group 3
S	Sounding A-903F	Main	11-12	Tank Well	Sounding Tube to D.O. or Ballast Tank A-903F	X	Group 3
P	Sounding A-904F	Main	11-12	Tank Well	Sounding Tube to D.O. or Ballast Tank A-904F	X	Group 3
S	Sounding A-905F	Main	14-15	A-103-1/2L	Sounding Tube to D.O. or Ballast Tank A-905F	X	Group 4

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11-7

P/S	INSC
P	Soun A-90
S	Soun A-90
P	Soun A-90
S	Soun A-90
P	Soun A-91
P	Soun C-20

CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Sounding A-906F	Main	14-15	Tank Well	Sounding Tube to D.O. or Ballast Tank A-906F	X	Group 4
S	Sounding A-907F	Main	14-15	Tank Well	Sounding Tube to D.O. or Ballast Tank A-907F	X	Group
P	Sounding A-908F	Main	17-18	Tank Well	Sounding Tube to D.O. Tank A-908F	X	Group 4
S	Sounding A-909F	Main	17-18	Tank Well	Sounding Tube to D.O. Tank A-909F	X	Group 4
P	Sounding A-910F	Main	17-18	Tank Well	Sounding Tube to D.O. Tank A-910F	X	Group 4
P	Sounding C-203F	Main	27-28	Tank Well	Sounding Tube to D.O. Tank C-203F	X	Group 8

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TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	F.M. Cut-out 1-9	Main	8-9	A-101EV	Fire Main Cut-out for F.S. C-8-5 & C-9-5	W	Group 1
P	F.M. Cut-out 1-15	Main	14-15	A-104-1/2EL	Fire Main Cut-out for F.S. C-14P & C-15P	W	Group 2
S	F.M. Cut-out 1-25-1	Hold	25-26	C-101E	Fire Main Cut-out for F.S. C-24S & C-25S	W	Group 6
P	Sounding C-901W	Hold	26-27	C-201EL	Sounding Tube to F.W. Tank C-901W	X	Group 7
S	Sounding C-902W	Hold	26-27	C-201EL	Sounding Tube to F.W. Tank C-902W	X	Group 6
S	F.M. Cut-out 2-12	Hold	12-13	A-208L	Fire Main Cut-out in Main	W	Group 1
P	F.M. Cut-out 2-14-2	Hold	14-15	A-210L	Fire Main Cut-out in Main	W	Group 5

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11-7

P/S	INS
P	F.M. out
S	F.M. out
S	F.M. out
P	F.M. out
S	F.M. out
S	F.M. out
P	F.M. out

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	F.M. Cut-out 2-15-2	Hold	14-15	A-210L	Fire Main Cut-out for F.S. C-14P, C-15P & B-14P	W	Group 5
S	F.M. Cut-out 2-14-1	Hold	14-15	A-210L	Fire Main Cut-out for F.S. B-14S	W	Group 5
S	F.M. Cut-out 2-15-1	Hold	15-16	A-210L	Fire Main Cut-out in Main	W	Group 5
P	F.M. Cut-out 2-18-2	Hold	17-18	A-211-2AE	Fire Main Cut-out in Main	W	Group 5
S	F.M. Cut-out 2-18-1	Hold	18-19	A-211-5AC	Fire Main Cut-out in Main	W	Group 4
S	F.M. Cut-out 2-24-1	Hold	25-26	C-201EL	Fire Main Cut-out in Main	W	Group 6
P	F.M. Cut-out 2-24-2	Hold	24-25	C-201EL	Fire Main Cut-out for F.S. B-23P	W	Group 7

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	F.M. Cut-out 2-24-3	Hold	24-25	C-201EL	Fire Main Cut-out for F.S. B-23S, C-24S & C-25S	W	Group 6
P	F.M. Cut-out 2-25	Hold	25-26	C-201EL	Fire Main Cut-out in Main	W	Group 7
P	F.M. Cut-out 1-25-2	Main	25-26	C-102-1/2AE	Fire Main Cut-out for F.S. C-25P & C-26P	W	Group 7
S	F.M. Cut-out 2-20-1	Hold	19-20	B-1	Fire Main Cut-out in Main	W	Group 10
S	F.M. Cut-out 2-20-3	Hold	19-20	B-1	Fire Main Cut-out in Main	W	Group 10
P	F.M. Cut-out 2-20-2	Hold	19-20	B-1	Fire Main Cut-out in Main	W	Group 10
P	F.M. Cut-out 2-20-4	Hold	19-20	B-1	Fire Main Cut-out in Main	W	Group 10

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11-7

P/S	INSCRIPTION
S	F. & L Pump 1 Sea St
P	F. & L Pump 1 Sea St
S	S.W. t Foam G No. 1
P	S.W. t Foam G No. 2
S	S.W. t Bilge Educto
P	S.W. t Bilge Educto
S	Bilge 1 Engine
P	Bilge 1 Engine
S	Eductor Ovb'd. charge Bilge D Stb'd.

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	F. & F. Pump No. 1 Sea Suction	Hold	19-20	B-1	Fire Main Sea Suction	W	Group 10
P	F. & F. Pump No. 2 Sea Suction	Hold	19-20	B-1	Fire Main Sea Suction	W	Group 10
S	S.W. to Foam Gen. No. 1	Hold	19-20	B-1	Foam Gen. No. 1 Cut-out	X	Group 10
P	S.W. to Foam Gen. No. 2	Hold	19-20	B-1	Foam Gen. No. 2 Cut-out	X	Group 10
S	S.W. to Bilge Eductor	Hold	19-20	B-1	Main Drain Cut-out	X	Group 10
P	S.W. to Bilge Eductor	Hold	19-20	B-1	Main Drain Cut-out	X	Group 10
S	Bilge Drain Engine Rm.	Hold	19-20	B-1	Bilge Drain Cut-out	X	Group 10
P	Bilge Drain Engine Rm.	Hold	19-20	B-1	Bilge Drain Cut-out	X	Group 10
S	Eductor Ovb'd. Discharge Main Bilge Drain Stb'd.	Hold	23-24	B-1	Bilge Drain Overboard Cut-out	X	Group 10

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TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Eductor Ovb'd. Discharge Main Bilge Drain Port	Hold	23-24	B-1	Bilge Drain Overboard Cut-out	X	Group 10
S	Bilge Drain Engine Rm.	Hold	23-24	B-1	Bilge Drain Cut-out	X	Group 10
P	Bilge Drain Engine Rm.	Hold	23-24	B-1	Bilge Drain Cut-out	X	Group 10
S	Bilge Drain Aux. Mach. Space C-201EL	Hold	24-25	B-1	Bilge Drain Cut-out	X	Group 10
P	Bilge Drain Aux. Mach. Space C-201EL	Hold	24-25	B-1	Bilge Drain Cut-out	X	Group 10
S	Bilge Drain Engine Rm.	Hold	24-25	B-1	Bilge Drain Cut-out	X	Group 10
S	Bilge Drain Void Space C-205V	Hold	24-25	B-1	Bilge Drain Cut-out	X	Group 10
P	Bilge Drain Aux. Mach. Spare Parts C-204A	Hold	24-25	B-1	Bilge Drain Cut-out	X	Group 10

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P/S	INSCRIPTION
P	Bilge Drain Overboard Cut-out
P	Bilge Drain Overboard Cut-out
P	F. Drain to
P	Eductor Ovb'd. Discharge Main & Bilge Drain
P	Ch. Drain A-2
P	Bilge Drain Void Space A-2
S	Fire to Sys

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	DESCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Bilge Drain Void Space A-201V	Main	7-8	A-102 AE	Bilge Drain Cut-out	X	Group 2
P	Bilge Drain Void Space A-202V	Main	7-8	A-102 AE	Bilge Drain Cut-out	X	2
P	F.M. Discharge to Eductor	Main	7-8	A-102 AE	Drain Eductor Forward Cut-out	X	Group 2
P	Eductor Ovb'd. Discharge Chain Lkr. & Fwd. Bilge Drain	Main	7-8	A-102 AE	Bilge Drain Overboard Cut-out	X	Group 2
P	Chain Lkr. Drain A-204E	Main	7-8	A-102 AE	Chain Locker Drain Cut-out	X	Group 2
P	Bilge Drain Void Space A-203V	Main	7-8	A-102 AE	Bilge Drain Cut-out	X	Group 2
S	Fire Main to Sanitary System	Hold	19-20	B-1	Flushing System Cut-out	Z	Group 10

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TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	Fire Main to Sanitary System By-Pass	Hold	19-20	B-1	Flushing System By-Pass Cut-out	Z	Group 10
P	F.W. Tank C-901W Cut-out 2-25-4	Hold	24-25	C-201 EL	F.W. Tank C-901W Suction Cut-out	Z	Group 7
P	F.W. Tank C-902W Cut-out 2-25-2	Hold	25-26	C-201 EL	F.W. Tank C-902W Suction Cut-out	Z	Group 7
S	Diesel Oil A-909F Suction	Hold	19-20	B-1	Diesel Oil A-909F Suction Cut-out	X	Group 10
S	D.O. or Ballast A-907F Suction	Hold	19-20	B-1	D.O. or Ballast A-907F Suction Cut-out	X	Group 10
S	D.O. or Ballast A-905F Suction	Hold	19-20	B-1	D.O. or Ballast A-905F Suction Cut-out	X	Group 10

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P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	D. Ba A-Fi						
S	D. Ba A-Fi						
S	D. Ba A-Fi						
S	D. Ba A-Fi						

CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

E/S	DESCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	D.O. or Ballast A-903F Suction	Hold	19-20	B-1	D.O. or Ballast A-903F Suction Cut-out	X	Group 10
S	Diesel Oil A-908F Suction	Hold	19-20	B-1	Diesel Oil A-908F Suction Cut-out	X	Group 10
S	Diesel Oil A-909F Filling	Hold	19-20	B-1	Diesel Oil A-909F Filling Cut-out	X	Group 10
S	D.O. or Ballast A-907F Filling	Hold	19-20	B-1	D.O. or Ballast A-907F Filling Cut-out	X	Group 10
S	D.O. or Ballast A-905F Filling	Hold	19-20	B-1	D.O. or Ballast A-905F Filling Cut-out	X	Group 10
S	D.O. or Ballast A-903F Filling	Hold	19-20	B-1	D.O. or Ballast A-903F Filling Cut-out	X	Group 10

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	Diesel Oil A-908F Filling	Hold	19-20	B-1	Diesel Oil A-908F Filling Cut-out	X	Group 10
P	Diesel Oil C-203F Suction	Hold	19-20	B-1	Diesel Oil C-203F Suction Cut-out	X	Group 10
P	Diesel Oil A-910F Suction	Hold	19-20	B-1	Diesel Oil A-910F Suction Cut-out	X	Group 10
P	D.O. or Ballast A-906F Suction	Hold	19-20	B-1	D.O. or Ballast A-906F Suction Cut-out	X	Group 10
P	D.O. or Ballast A-914F Suction	Hold	19-20	B-1	D.O. or Ballast A-914F Suction Cut-out	X	Group 10
P	D.O. or Ballast A-902F Suction	Hold	19-20	B-1	D.O. or Ballast A-902F Suction Cut-out	X	Group 10

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11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	D.O. or Ballast A-906F Suction	Hold	19-20	B-1	D.O. or Ballast A-906F Suction Cut-out	X	Group 10
P	D.O. or Ballast A-914F Suction	Hold	19-20	B-1	D.O. or Ballast A-914F Suction Cut-out	X	Group 10
P	D.O. or Ballast A-902F Suction	Hold	19-20	B-1	D.O. or Ballast A-902F Suction Cut-out	X	Group 10

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Diesel Oil C-203F Filling	Hold	19-20	B-1	Diesel Oil C-203F Filling Cut-out	X	Group 10
P	Diesel Oil A-910F Filling	Hold	19-20	B-1	Diesel Oil A-910F Filling Cut-out	X	Group 10
P	D.O. or Ballast A-906F Filling	Hold	19-20	B-1	D.O. or Ballast A-906F Filling Cut-out	X	Group 10
P	D.O. or Ballast A-904F Filling	Hold	19-20	B-1	D.O. or Ballast A-904F Filling Cut-out	X	Group 10
P	D.O. or Ballast A-902F Filling	Hold	19-20	B-1	D.O. or Ballast A-902F Filling Cut-out	X	Group 10
P	D.O. Trans. Pump Disch. to Service Tanks	Hold	22-23	B-1	D.O. Trans. to Service Tanks Cut-out	X	Group 10

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Clean D.O. B-906F Filling	Hold	23-24	B-1	Clean Diesel Oil A-906F Filling Cut-out	X	Group 10
P	Diesel Oil C-203F Transfer	Hold	24-25	B-1	Diesel Oil C-203F Transfer Cut-out	X	Group 10
S	F.O. Suction & Transfer Overboard Discharge	Hold	19-20	B-1	F.O. Suction & Transfer Overboard Discharge Cut-out	X	Group 10
S	Ballast Transfer A-207W	Hold	11-12	A-208L	Ballast Transfer or D.O. Transfer A-207W Cut-out	X	Group 1
S	Ballast Transfer or D.O. Suct. A-903F	Hold	13-14	A-208L	Ballast Transfer or D.O. Suction A-903F Cut-out	X	Group 1

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	Ballast Transfer or D.O. Suct. A-907F	Hold	16-17	A-210L	Ballast Transfer or D.O. Suction A-907F Cut-out	X	Group 5
S	Sea Suction	Hold	19-20	B-1	Sea Suction Cut-out	X	Group 10
S	Main Injection Tube	Hold	19-20	B-1	Main Injection Tube Cut-out	X	Group 10
P	Ballast Transfer A-205W	Hold	11-12	A-208L	Ballast Transfer A-205W Cut-out	X	Group 1
P	Ballast Transfer A-206W	Hold	11-12	A-208L	Ballast Transfer A-206W Cut-out	X	Group 1
P	Ballast Transfer or D.O. Suct. A-902F	Hold	12-13	A-208L	Ballast Transfer or D.O. Suction A-902F Cut-out	X	Group 1

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WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Ballast Transfer or D.O. Suct. A-904F	Hold	13-14	A-208L	Ballast Transfer or D.O. Suction A-904F Cut-out	X	Group 1
P	Ballast Transfer or D.O. Suct. A-905F	Hold	16-17	A-210L	Ballast Transfer or D.O. Suction A-905F Cut-out	X	Group 5
P	Ballast Transfer or D.O. Suct. A-906F	Hold	16-17	A-210L	Ballast Transfer or D.O. Suction A-906F Cut-out	X	Group 5
P	Diesel Gen. S.W. Suct. from Ballast Tank A-205W	Hold	11-12	A-208L	Diesel Generator S.W. Suct. from Ballast Tank A-205W Cut-out	X	Group 1
P	Diesel Gen. Nos. 1 & 2 S.W. Suct. - Clean Ballast Tank A-205W	Hold	19-20	B-1	Diesel Gen. No. 1 & No. 2 Suction - Clean Ballast Tank A-205W	X	Group 10

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
P	Sea Suction	Hold	19-20	B-1	Sea Suction Cut-out	X	Group 10
P	Clean Ballast Ovb'd. Discharge	Hold	19-20	B-1	Clean Ballast Overboard Discharge Cut-out	X	Group 10
P	Emergency Bilge Suction	Hold	19-20	B-1	Emergency Bilge Suction Cut-out	X	Group 10
P	D.O. Filling A-904F	Super.	13-14	Weather	D.O. Filling A-904F	X	Group 2
P	D.O. Filling A-902F	Super.	13-14	Weather	D.O. Filling A-902F	X	Group 2
S	D.O. Filling A-903F	Super.	13-14	Weather	D.O. Filling A-903F	X	Group 3
P	D.O. Filling A-906F	Super.	15-16	Weather	D.O. Filling A-906F	X	Group 2
S	D.O. Filling A-907F	Super.	15-16	Weather	D.O. Filling A-907F	X	Group 3

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GROUP ASSIGNMENT

Group 1

Group 5

Group 5

Group 1

Group 10

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

TABLE 11-6 (cont'd.)

PIPING SYSTEMS CLOSURES

11-7

P/S	INSCRIPTION	DECK	FRAME NO.	COMPT.	SERVICE	CLOSURE CLASSIFICATION	GROUP ASSIGNMENT
S	D.O. Filling A-905F	Super.	15-16	Weather	D.O. Filling A-905F	X	Group 3
P	D.O. Filling A-908F	Super.	17-18	Weather	D.O. Filling A-908F	X	Group 4
P	D.O. Filling A-910F	Super.	17-18	Weather	D.O. Filling A-910F	X	Group 4
S	D.O. Filling A-909F	Super.	19-20	Weather	D.O. Filling A-909F	X	Group 3
S	D.O. Filling C-203F	Super.	27-28	Weather	D.O. Filling C-203F	X	Group 6
P	D.O. Deck Filling	Super.	19-20	Weather	D.O. Filling & Discharge	X	Group 4

NOTE: All other systems have no closure classification.

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

INSPECTIONS AND REPORTS:-

11-8

Inspections and reports as to watertightness will be made in port and at sea as listed below:

(a) Going from Condition "BAKER" to Condition "ABLE"

When General Quarters sounds, the Inspecting Petty Officers designated in TABLE 11-4 will inspect the parts of the ship assigned to their respective groups and see that all "X", "Y" and "Z" fittings are closed and "W" fittings are open. Each will note and correct any discrepancies and report the results of their inspections to the Officer of the Deck (Commanding Officer).

(b) Going from Condition "ABLE" to Condition "BAKER"

When Condition "BAKER" is set following secure from General Quarters, the Inspecting Petty Officers designated in TABLE 11-4 will inspect the parts of the ship assigned to their respective groups and see that all "X" and "Y" fittings are closed and all "Z" and "W" fittings are open. Each will note and correct any discrepancies and report the results of their inspections to the Officer of the Deck.

(c) When Condition "BAKER" is set prior to getting underway, the Inspecting Petty Officers designated in TABLE 11-2 of the section off watch will inspect the parts of the ship assigned to their respective groups and see that all "X" and "Y" fittings are closed and all "Z" and "W" fittings are open. Each will note and correct any discrepancies and report the results of their inspections to the Officer of the Deck.

(d) When the ship is in Material Condition "BAKER", the Inspecting Petty Officers designated in TABLE 11-2 of the Section off Watch will inspect the parts of the ship assigned their respective groups and see that all "X" and "Y"

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CHAPTER 11

WATERTIGHT INTEGRITY BILL

11-8 INSPECTIONS AND REPORTS:-

(d) (cont'd.)

fittings are closed and all "Z" and "W" fittings are open. Each will note and correct any discrepancies and report the results of their inspections to the Officer of the Deck, prior to 2000 each evening.

(e) Security inspections will be made once each watch by the petty officer having the security watch. He will note and correct any discrepancies and report the results of his inspection to the Officer of the Deck.

(f) Heads of Departments will include the condition of watertight integrity of their respective departments when they report the readiness of their department for sea and in their 8 o'clock reports to the Commanding Officer.

(g) The need for keeping fittings closed according to their classification and condition set cannot be emphasized too strongly and the responsibility for maintaining watertight integrity must be deeply impressed upon the personnel on board.

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12-2

12-3

12-4

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