

Appendix D

Analysis of CGC DEPENDABLE - Post Paragon

In conjunction with the Paragon Project the following major changes were made to the installed fire protection equipment and manual firefighting procedures on the CGC DEPENDABLE:

- The existing fire detection and monitoring system was changed to a fully addressable system and 16 fixed surveillance cameras were installed.
- Manual firefighting procedures were changed to incorporate a rapid response team concept. In addition, the in port duty section was significantly reduced in size while the vessel is in homeport. Additional details concerning these and other changes are discussed in section 4.0 of this report.

The various input and output data produced in the analysis of post-Paragon conditions on CGC DEPENDABLE using SAFE, version 2.2, are documented in this appendix. The following index correlates SAFE input and output data with page numbers in this appendix for at sea, in homeport, and in port away from homeport conditions:

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CGC DEPENDABLE M-VALUES ALTERNATIVE (RRT/ADDRESSABLE DETECTION) AT SEA

Plan ID	CUI	Comp	New Detectors	Act FRI	Class	Size	dmn	nmn	smn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	qme	cme	bme	Me	M EB	
3-12-0-Q	AG	CHAIN LOCKER		15	A	S	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	1	1	0.8	0.8	1	1	0.95	0.95	0.18	
2-52-02-A	AG	CLEANING GEAR LOCKER		31	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.32	
2-75-1-A	AG	WARDROBE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
2-78-0-A	AG	HS STORES		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
2-78-2-A	AG	REC LKR		11	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
2-180-2-A	AG	REPAIR PARTY LOCKER		4	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	0.75	0.9	1	0.675	1	1	0.95	0.95	0.22	
1-20-2-A	AS	GENERAL STORES		16	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.24	
1-52-1-A	AG	SHIPS SERVICE STORE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
1-57-1-A	AG	FWD REPAIR LOCKER		14	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
1-72-0-A	AG	REPAIR ANNEX		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.95	0.95	0.29	
01-89-2-A	AG	EQPT LKR		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.32	
2-156-0-A	AR	THAW BOX		4	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.8	0.8	0.14	
2-156-1-A	AR	FREEZER BOX		4	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.8	0.8	0.14	
2-164-2-A	AR	CHILL BOX		4	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.8	0.8	0.14	
4-32-0-A	AS	STOREROOM	2-22	8	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.99	0.9	1	0.891	1	1	0.8	0.8	0.49	
4-143-0-A	AS	ENGINEERS STOREROOM	8-23	12	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-16-0-A	AS	BOSUN'S STORES	1-7	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-156-02-A	AS	DRY PROVISIONS STORES	8-25	29	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-172-1-A	AS	HAWSER & RESCUE EQUIPMENT STORAGE	8-26	2	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.6	1	1	0.6	1	1	0.8	0.8	0.33	
1-1-0-A	AS	GENERAL STORES	1-8	18	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
1-12-0-A	AS	BOSUN'S STORES		∞	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.24	
1-159-1-A	AS	DRY STORES		∞	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.24	
1-159-2-A	AS	DRY PROVISIONS STORES		22	A	M	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.24	
3-72-0-C	C	IC AND GYRO ROOM	4-56	7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.85	0.76	0.99	1	1	0.99	0.9	0.9	0.8	0.648	0.42
2-136-0-C	C	CONTROL BOOTH	6-11	5	C	M	1	1	0.95	0.95	1	0.9	0.9	0.85	0.76	0.9	1	1	0.9	0.9	0.9	0.8	0.648	0.42
02-56-1-C	C	RADIO ROOM	11-110/11-111	8	C	M	0.99	0.99	0.95	0.93	1	0.9	0.9	0.85	0.76	0.99	0.8	0.8	0.633	0.9	0.9	0.8	0.648	0.29
02-56-2-C	C	CIC ROOM	11-109	7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.85	0.76	0.99	0.8	0.85	0.673	0.9	0.9	0.8	0.648	0.28
03-62-0-C	C	PILOT HOUSE	12-123	9	C	M	1	1	1	1	1	0.9	0.9	0.85	0.76	0.99	1	0.85	0.841	0.9	0.9	0.8	0.648	0.41
4-108-0-E	EM	ENGINE ROOM	6-7 to 6-10	3	B	L	0.99	0.99	0.95	0.93	0.8	0.8	0.8	0.51	0.7	1	0.8	0.56	0.95	0.95	0.65	0.586	0.15	
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2-21	2	B	L	0.95	0.95	0.95	0.85	1	0.8	0.9	0.72	0.6	1	1	0.6	0.95	0.95	0.65	0.586	0.21	
2-72-1-L	L1	ENGINEERING OFFICER STATEROOM	4-55	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
01-44-0-L	L1	CO STATEROOM	10-98	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
01-44-1-L	L1	CO CABIN	10-97	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
01-72-0-L	L1	EXEC OFF STATEROOM	10-93	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
01-72-01-L	L1	OPS OFFICER	10-95	∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	

D-2

Plan ID	CUI	Comp	New Detectors	Act FR	Class	Size	dmm	nmn	snn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	qme	cme	brne	Me	MEB
		STATEROOM			A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-724-L	L2	OFFICER STATEROOM	4-50	31	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-841-L	L2	OFFICER STATEROOM	4-54	26	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-842-L	L2	OFFICER STATEROOM	4-51	26	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-961-L	L2	CPO STATEROOM	4-53	25	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-962-L	L2	CPO STATEROOM	4-52	24	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
01-59-0-L	L2	OFFICER STATEROOM	10-96	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.8	0.8	0.50	
2-32-01-L	L5	CREWS BERTHING	2-20	11	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	0.9	0.9	1	1	0.8	0.8	0.50	
2-52-01-L	L5	CREWS BERTHING	3-34/3-35	11	A	M	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	1	0.9	0.9	1	1	0.8	0.8	0.54
1-32-0-L	L5	CREWS BERTHING	2-19	11	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	0.9	0.9	1	1	0.8	0.8	0.50	
1-52-0-L	L5	CREWS BERTHING	3-33	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	0.9	0.9	1	1	0.8	0.8	0.50	
1-80-0-L	LL	WARDROOM	4-47	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	1	0.9	0.9	1	1	0.8	0.8	0.47	
1-93-0-L	LL	CPO MESS	4-48	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	1	0.9	0.9	1	1	0.8	0.8	0.47	
1-121-0-L	LL	CREWS MESS	5-68/5-70	∞	A	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	1	1	0.9	0.9	1	1	0.8	0.8	0.51
1-114-0-L	LM	DISPENSARY	5-67	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	0.8	0.8	0.42	
4-52-01-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-76-0A-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-76-0B-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-96-0-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-140-0A-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-140-0B-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-143-2-L	LP	STAIRWAY	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-156-01A-L	LP	PASSAGeway	8-27	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.65	
2-156-01B-L	LP	PASSAGeway	8-27	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.65	
2-156-01C-L	LP	PASSAGeway	8-27	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.65	
2-172-0-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
1-52-01A-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
1-52-01B-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
1-52-01C-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
1-108-1-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
1-143-2-L	LP	STAIRWAY	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
01-69-0-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
02-69-2-L	LP	PASSAGeway	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
02-69-4-L	LP	VESTIBULE	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-32-0-L	LW	CREWS SANITARY SPACE	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-52-0-L	LW	CREWS SANITARY SPACE	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-72-0-L	LW	OFFICERS SANITARY SPACE	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-72-2-L	LW	OFFICERS SANITARY SPACE	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	
2-88-1-L	LW	OFFICERS SANITARY	∞	A	S	0.6	0.9	0.95	0.51	1	0.9	0.9	0.81	1	1	1	1	1	1	0.95	0.95	0.39	

Plan ID	CUI	Comp	New Detectors	Act FR	Class	Size	dmm	nmm	snn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	qme	cme	brne	Me	M EBB		
		SPACE			A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95	0.95	0.39	
2-88-2-L	LW	OFFICERS SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
2-99-0-L	LW	CPO SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
1-20-4-Q	LW	DECON SHWR	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
1-52-2-L	LW	CREWS SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
01-44-2-L	LW	CO SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
01-56-2-L	LW	OFFICERS SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
01-87-0-L	LW	XO SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
01-87-1-L	LW	OPS OFFICER SANITARY SPACE	∞		A	S	0.6	0.9	0.95	0.51	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.95	0.95	0.39
4-84-0-Q	QA	A/C MACHINERY AND SEWAGE DISPOSAL ROOM	4-57	2	C	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.648	0.22			
3-96-0-E	QA	AUX MACHINERY SPACE	6-6	2	C	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.648	0.22			
4-156-0-E	QA	AUX MACHINERY SPACE	8-22	2	B	M	0.95	0.95	0.85	0.7	0.9	0.85	0.53	0.6	1	0.9	0.54	0.85	0.85	0.8	0.578	0.14			
4-188-0-E	QA	STEERING GEAR ROOM	9-38	2	B	M	0.95	0.95	0.85	0.9	0.9	0.85	0.68	0.6	1	0.8	0.48	0.85	0.85	0.8	0.578	0.16			
01-92-0-Q	QA	HELO SERVICE	10-94	2	C	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.648	0.22			
1-63-1-Q	QF	FAN ROOM	1	C	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.9	0.9	0.95	0.769	0.04		
1-63-2-Q	QF	FAN ROOM	1	C	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.9	0.9	0.95	0.769	0.04		
02-81-2-Q	QF	FAN ROOM	2	C	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.9	0.9	0.95	0.769	0.09		
02-90-0-Q	QF	PLENUM ROOM	2	C	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.9	0.9	0.95	0.769	0.09		
1-114-2-Q	QG	SCULLERY	5-69	2	A	S	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	1	0.6	1	1	1	0.95	0.95	0.37		
1-146-0-Q	QG	GALLEY	7-81	2	B	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	0.9	1	0.54	0.85	0.85	0.8	0.578	0.20			
1-20-0-Q	QL	LAUNDRY	1-6	3	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.7	1	1	0.7	1	1	1	0.8	0.8	0.36		
2-143-2-Q	QO	ENGINEERING OFFICE	8-28	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	1	0.9	1	1	1	0.8	0.8	0.47		
1-72-2-Q	QO	SUPPLY OFFICE	4-46	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.8	0.42		
1-99-1-Q	QO	SHIPS OFFICE	4-49	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.8	0.42		
2-140-1-Q	QS	ENGINEERS WORKSHOP	8-24	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.8	0.42		
2-172-2-Q	QS	ELECTRIC WORKSHOP	∞		A	M	0.6	0.9	0.95	0.51	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.8	0.25	
02-78-1-Q	QS	ELEC LAB AND STORAGE	11-108	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.8	0.42		
3-52-2-M	TH	AMMO HOIST	2	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	0.4	1	0.9	0.36	1	1	1	0.95	0.95	0.11			
1-108-0-Q	TU	UPTAKE	2	B	L	0.5	0.9	0.95	0.42	1	0.8	0.9	0.72	0.4	1	0.9	0.36	0.85	0.85	0.65	0.469	0.05			
01-99-0-Q	TU	UPTAKE AND FAN ROOM	3	B	L	0.5	0.9	0.95	0.42	1	0.8	0.9	0.72	0.6	1	0.9	0.54	0.85	0.85	0.65	0.469	0.07			

Calculated FRI Times

CGC DEPENDABLE A-VALUES ALTERNATIVE (RRT/ADDRESSABLE DETECTION) AT SEA

Plan ID	CUI	Comp	FRI	Class	Size	dan	nan	san	An	fap	vap	pap	Ap	saa	aaa	daa	Aa	qae	cae	bae	Ae	A EB
4-108-0-E	EM	ENGINE ROOM	3	B	L	0.99	0.99	0.95	0.93	0.8	0.8	0.8	0.51	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.23
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2	B	L	0.95	0.95	0.95	0.85	1	0.8	0.9	0.72	0.95	1	1	0.95	1	0.9	0.85	0.76	0.44
3-96-0-E	QA	AUX MACHINERY SPACE	2	B	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.32
4-156-0-E	QA	AUX MACHINERY SPACE	2	B	L	0.95	0.95	0.95	0.85	0.7	0.9	0.85	0.53	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.22
4-188-0-E	QA	STEERING GEAR ROOM	2	B	M	0.95	0.95	0.95	0.85	0.9	0.9	0.85	0.68	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.28
1-146-0-Q	QG	GALLEY	2	B	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.9	1	1	0.9	1	1	0.9	0.9	0.53

An=dan*nan*san where dan=detection of fire, nan=notification of Bridge, and san=sound the alarm

Ap=fap*vap*cap where fap=secure the fuel supply, vap=secure the ventilation, and cap=secure the electrical power

Aa=saa*aaa*daa where saa=alignment of automated system, aaa=agent discharges from nozzle, and daa=agent discharges on the fire

Ae=qae*cae*bae where qae=quantity of agent is adequate, cae=concentration of agent is adequate, and bae=blackout occurs

A|EB=An*Ap*Aa*Ae where An=Notification, Ap=Preparation, Aa=Agent Application, and Ae=Fire Extinguishment

Installed Automated Systems:

Fixed CO2 Total Flooding System in the Flammable Liquids Storeroom, Aqueous Potassium Carbonate System in the Galley, and AFFF Bilge Sprinkling in the Engine Room, Auxiliary Machinery Spaces and Steering Gear Room.

Notes:

The Galley is occupied 30% of the time, however, it is assumed that if a grease fire occurs on the Galley stove, it is assumed that a crew member is present in the Galley.

The probability of the Galley's automated system successfully extinguishing the fire is based on grease fires on the stove only.

CGC DEPENDABLE
12/31/98
MODEL RUN 14-63

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive, Automatic, and Manual
CASE. Worst
ASSUMED LOCATION. . . at SEA
RUN TIME. 60 minutes
COMMENTS.
Alternative, At-Sea Post-Paragon RRT Concept M values (revised A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
01-99-0-Q	2	23 years	0.0035
03-62-0-C	2	26 years	0.0028
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0019
1-108-0-Q	2	23 years	0.0014
02-56-2-C	2	26 years	0.0012
01-92-0-Q	2	22 years	0.0014
1-114-2-Q	2	20 years	0.0013
1-93-0-L	2	24 years	0.0009
1-121-0-L	2	24 years	0.0008
1-99-1-Q	2	22 years	0.0008
2-172-1-A	2	22 years	0.0006
1-148-0-Q	2	20 years	0.0006
4-108-0-E	2	26 years	0.0004
1-159-2-A	2	23 years	0.0004
1-159-1-A	2	23 years	0.0004
4-143-0-A	2	25 years	0.0003
2-156-02-A	2	23 years	0.0003
4-188-0-E	2	26 years	0.0002
1-63-1-Q	3	18 years	0.0001
2-156-1-A	2	23 years	0.0000
2-156-0-A	2	23 years	0.0000
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 14-64

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Automatic
CASE. Worst
ASSUMED LOCATION. . . at SEA
RUN TIME. 60 minutes
COMMENTS.
Alternative, At-Sea Post-Paragon RRT Concept M values (revised A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0074
01-99-0-Q	2	23 years	0.0052
02-56-1-C	2	26 years	0.0032
02-56-2-C	2	26 years	0.0022
02-90-0-Q	3	18 years	0.0027
1-93-0-L	2	24 years	0.0019
1-121-0-L	2	24 years	0.0018
01-92-0-Q	2	22 years	0.0020
1-108-0-Q	2	23 years	0.0019
1-114-2-Q	2	20 years	0.0021
1-99-1-Q	2	22 years	0.0014
2-172-1-A	2	22 years	0.0013
2-156-02-A	2	23 years	0.0011
1-148-0-Q	2	20 years	0.0010
4-108-0-E	2	26 years	0.0008
1-159-2-A	2	23 years	0.0008
1-159-1-A	2	23 years	0.0008
4-143-0-A	2	25 years	0.0005
4-188-0-E	2	26 years	0.0004
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 14-65

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Manual
CASE. Worst
ASSUMED LOCATION. . . at SEA
RUN TIME. 60 minutes
COMMENTS.
Alternative, At-Sea Post-Paragon RRT Concept M values (revised A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
01-99-0-Q	2	23 years	0.0037
03-62-0-C	2	26 years	0.0028
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0020
1-108-0-Q	2	23 years	0.0015
02-56-2-C	2	26 years	0.0012
01-92-0-Q	2	22 years	0.0014
1-114-2-Q	2	20 years	0.0014
1-121-0-L	2	24 years	0.0010
1-148-0-Q	2	20 years	0.0011
1-93-0-L	2	24 years	0.0009
1-99-1-Q	2	22 years	0.0008
4-108-0-E	2	26 years	0.0006
1-159-2-A	2	23 years	0.0007
1-159-1-A	2	23 years	0.0007
2-172-1-A	2	22 years	0.0006
4-143-0-A	2	25 years	0.0003
2-156-02-A	2	23 years	0.0003
4-188-0-E	2	26 years	0.0002
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 14-66

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive
CASE. Worst
ASSUMED LOCATION. . . at SEA
RUN TIME. 60 minutes
COMMENTS.
Alternative, At-Sea Post-Paragon RRT Concept M values (revised A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.1933
01-99-0-Q	2	23 years	0.1284
02-56-1-C	2	26 years	0.0835
02-56-2-C	2	26 years	0.0582
1-121-0-L	2	24 years	0.0529
02-90-0-Q	3	18 years	0.0517
1-93-0-L	2	24 years	0.0509
1-114-2-Q	2	20 years	0.0483
1-108-0-Q	2	23 years	0.0478
01-92-0-Q	2	22 years	0.0452
1-148-0-Q	2	20 years	0.0360
1-99-1-Q	2	22 years	0.0343
1-159-1-A	2	23 years	0.0328
1-159-2-A	2	23 years	0.0319
2-172-1-A	2	22 years	0.0295
4-108-0-E	2	26 years	0.0286
2-156-02-A	2	23 years	0.0253
4-143-0-A	2	25 years	0.0137
4-188-0-E	2	26 years	0.0136
2-156-1-A	2	23 years	0.0079
2-156-0-A	2	23 years	0.0079
4-156-0-E	2	26 years	0.0031
1-63-1-Q	3	18 years	0.0024
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE M-VALUES ALTERNATIVE (IN HOMEPORT) IN PORT

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmn	nmn	smn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	qme	cme	bme	Me	M EB
3-12-0-Q	AG	CHAIN LOCKER			15	A	S	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	1	1	0.8	0.8	1	1	0.9	0.9	0.17
2-52-02-A	AG	CLEANING GEAR LOCKER			31	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.9	0.24
2-75-1-A	AG	WARDROBE			∞	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.9	0.9	0.22
2-78-0-A	AG	HS STORES			∞	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	0.8	0.72	1	1	0.5	0.5	0.09
2-78-2-A	AG	REC LKR			11	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	0.9	0.81	1	1	0.9	0.9	0.20
2-180-2-A	AG	REPAIR PARTY LOCKER			4	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.9	1	0.67	1	1	0.9	0.9	0.16
1-20-2-A	AG	GENERAL STORES			16	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.12
1-52-1-A	AG	SHIPS SERVICE STORE			∞	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.9	0.9	0.22
1-57-1-A	AG	FWD REPAIR LOCKER			14	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.9	0.9	0.22
1-72-0-A	AG	REPAIR ANNEX			1	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.2	0.9	0.9	0.16	1	1	0.9	0.9	0.04
01-89-2-A	AG	EQPT LKR			∞	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.9	0.24
2-156-0-A	AR	THAW BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.5	0.5	0.07
2-156-1-A	AR	FREEZER BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.5	0.5	0.07
2-164-2-A	AR	CHILL BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	0.5	0.5	0.07
4-32-0-A	AS	STOREROOM	2-22		8	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.99	0.9	1	0.89	1	1	0.5	0.5	0.30
4-143-0-A	AS	ENGINEERS STOREROOM	8-23		12	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.31
2-16-0-A	AS	BOSUN'S STORES	1-7	10	∞	A	M	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.33
2-156-02-A	AS	DRY PROVISIONS STORES	8-25		29	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.31
2-172-1-A	AS	HAWSER & RESCUE EQUIPMENT STORAGE	8-26		2	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.6	1	1	0.6	1	1	0.5	0.5	0.20
1-1-0-A	AS	GENERAL STORES	1-8		18	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.31
1-12-0-A	AS	BOSUN'S STORES			∞	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.12
1-159-1-A	AS	DRY STORES			∞	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.12
1-159-2-A	AS	DRY PROVISIONS STORES			22	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.12
3-72-0-C	C	IC AND GYRO ROOM	4-56		7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.99	1	1	0.99	0.9	0.9	0.5	0.40	0.26
2-136-0-C	C	CONTROL BOOTH	6-11		5	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.9	1	1	0.9	0.9	0.9	0.5	0.40	0.23
02-56-1-C	C	RADIO ROOM	11-110/11-111		8	C	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	0.99	0.8	0.8	0.63	0.9	0.9	0.5	0.40	0.18
02-56-2-C	C	CIC ROOM	11-109		7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.99	0.8	0.85	0.67	0.9	0.9	0.5	0.40	0.17
03-62-0-C	C	PILOT HOUSE	12-123		9	C	M	0.95	0.95	1	0.90	1	0.9	0.85	0.76	0.99	1	0.85	0.84	0.9	0.9	0.5	0.40	0.23
4-108-0-E	EM	ENGINE ROOM	6-7 to 6-10	7, 13, 14	3	B	L	0.99	0.99	0.95	0.93	0.8	0.8	0.8	0.51	0.7	1	0.8	0.56	0.95	0.95	0.25	0.22	0.06
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2-21		2	B	L	0.95	0.95	0.95	0.85	1	0.8	0.9	0.72	0.6	1	1	0.6	0.95	0.95	0.25	0.22	0.08
2-72-1-L	L1	ENGINEERING	4-55		∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.5	0.31

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmm	smm	Mn	fmp	vmp	pmp	Ma	gme	cme	dma	ama	bme	Me	MIEB	
		OFFICER																				
01-44-0-L	L1	CO STATEROOM	10-98	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
01-44-1-L	L1	CO CABIN	10-97	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
01-72-0-L	L1	EXEC OFF	10-93	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
01-72-01-L	L1	OPS OFFICER	10-95	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-72-4-L	L2	OFFICER	4-50	31	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-84-1-L	L2	OFFICER	4-54	26	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-84-2-L	L2	OFFICER	4-51	26	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-96-1-L	L2	CPO STATEROOM	4-53	25	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-96-2-L	L2	CPO STATEROOM	4-52	24	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
01-59-0-L	L2	OFFICER	10-96	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-32-01-L	L5	CREWS BERTHING	2-20	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
2-52-01-L	L5	CREWS BERTHING	3-34/3-35	∞	A	M	0.99	0.99	0.95	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.33	
1-32-0-L	L5	CREWS BERTHING	2-19	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
1-52-0-L	L5	CREWS BERTHING	3-33	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	0.5	0.31	
1-80-0-L	LL	WARDROOM	4-47	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.76	1	0.9	1	0.9	1	1	0.5	0.29	
1-93-0-L	LL	CPO MESS	4-48	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.76	1	0.9	1	0.9	1	1	0.5	0.29	
1-121-0-L	LL	CREWS MESS	5-68/5-70	5	∞	A	M	0.99	0.99	0.95	1	0.9	0.9	0.76	1	0.9	1	0.9	1	1	0.5	0.31
1-114-0-L	LM	DISPENSARY	5-67	∞	A	M	0.95	0.95	0.85	1	0.9	0.9	0.85	1	0.9	1	0.9	1	1	0.5	0.26	
4-52-01-L	LP	PASSAGEWAY	11	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
2-76-0A-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
2-76-0B-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
2-96-0-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
2-140-0A-L	LP	PASSAGEWAY	8	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
2-140-0B-L	LP	PASSAGEWAY	8	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
2-143-2-L	LP	STAIRWAY	8	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31	
2-172-0-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
2-156-01A-L	LP	PASSAGEWAY	8-27	9	∞	A	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.67
2-156-01B-L	LP	PASSAGEWAY	8-27	9	∞	A	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.67
2-156-01C-L	LP	PASSAGEWAY	8-27	9	∞	A	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.67
2-172-0-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
1-52-01A-L	LP	PASSAGEWAY	2	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
1-52-01B-L	LP	PASSAGEWAY	2	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
1-52-01C-L	LP	PASSAGEWAY	2	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
1-108-1-L	LP	PASSAGEWAY	2	∞	A	S	0.95	0.95	0.85	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.62	
1-143-2-L	LP	STAIRWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31
01-69-0-L	LP	PASSAGEWAY	∞	∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.9	0.81	1	1	1	1	1	1	0.9	0.31

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act Class FRI	Size	dmm	smm	Mm	fmp	vmp	pmp	Ma	gme	cme	bme	Me	MEB			
02-69-2-L	LP	PASSAGeway	1	∞	A	S	0.95	0.95	0.85	1	0.9	0.81	1	1	1	1	0.9	0.62			
02-69-4-L	LP	VESTIBULE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-32-0-L	LW	CREWS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-52-0-L	LW	CREWS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-72-0-L	LW	OFFICERS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-72-2-L	LW	OFFICERS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-88-1-L	LW	OFFICERS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-88-2-L	LW	OFFICERS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
2-99-0-L	LW	CPO SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
1-20-4-Q	LW	DECQN SHWR		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
1-52-2-L	LW	CREWS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
01-44-2-L	LW	CO SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
01-56-2-L	LW	OFFICERS SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
01-87-0-L	LW	XO SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
01-87-1-L	LW	OPS OFFICER SANITARY SPACE		∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	0.9	0.31		
4-84-0-Q	QA	A/C MACHINERY AND SEWAGE DISPOSAL ROOM	4-57	2	C	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.14		
3-96-0-E	QA	AUX MACHINERY SPACE	6-6	12	C	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.15	
4-156-0-E	QA	AUX MACHINERY SPACE	8-22	15	2	B	M	0.99	0.99	0.95	0.93	0.7	0.9	0.85	0.53	0.6	1	0.9	0.54	0.85	0.09
4-188-0-E	QA	STEERING GEAR ROOM	9-38	16	2	B	M	0.99	0.99	0.95	0.93	0.9	0.9	0.85	0.68	0.6	1	0.8	0.48	0.85	0.11
01-92-0-Q	QA	HELO SERVICE	10-94	2	C	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.14		
1-63-1-Q	QF	FAN ROOM		1	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.03	
1-63-2-Q	QF	FAN ROOM		1	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.03	
02-81-2-Q	QF	FAN ROOM		2	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.06	
02-90-0-Q	QF	PLENUM ROOM	5-69	2	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.06	
1-114-2-Q	QG	SCULLERY	7-81	2	A	S	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	1	0.6	1	0.9	0.35	
1-146-0-Q	QG	GALLEY	1-6	3	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	0.9	1	0.54	0.85	0.12		
1-20-0-Q	QL	LAUNDRY	8-28	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	0.7	1	1	0.7	1	0.5	0.22	
2-143-2-Q	QO	ENGINEERING OFFICE		∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	1	1	1	0.5	0.29		
1-72-2-Q	QO	SUPPLY OFFICE	4-46	∞	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.81	1	1	0.5	0.26	

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmn	nmn	smn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	qme	cme	bme	Me	M EB
1-99-1-Q	QO	SHIPS OFFICE	4-49		∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	0.5	0.5	0.26
2-140-1-Q	QS	ENGINEERS WORKSHOP	8-24		∞	A	S	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	0.5	0.5	0.26
2-172-2-Q	QS	ELECTRIC WORKSHOP			∞	A	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	0.5	0.5	0.13
02-78-1-Q	QS	ELEC LAB AND STORAGE	11-108		∞	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	0.5	0.5	0.26
3-52-2-M	TH	AMMO HOIST			2	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.4	1	0.9	0.36	1	1	0.9	0.9	0.08
1-108-0-Q	TU	UPTAKE			2	B	L	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	0.4	1	0.9	0.36	0.85	0.85	0.25	0.18	0.01
01-99-0-Q	TU	UPTAKE AND FAN ROOM			3	B	L	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	0.6	1	0.9	0.54	0.85	0.85	0.25	0.18	0.02

CALCULATED FRI TIMES

CGC DEPENDABLE A-VALUES ALTERNATIVE (IN HOMEPORT) IN PORT

Plan ID	CUI	Comp	FRI	Class	Size	dan	nan	san	An	fap	vap	pap	Ap	saa	aaa	daa	Aa	qae	cae	bae	Ae	A EB
4-108-0-E	EM	ENGINE ROOM	3	B	L	0.99	0.99	0.95	0.93	0.8	0.8	0.8	0.51	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.23
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2	B	L	0.95	0.95	0.95	0.85	1	0.8	0.9	0.72	0.95	1	1	0.95	1	0.9	0.85	0.76	0.44
3-96-0-E	QA	AUX MACHINERY SPACE	2	B	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.34
4-156-0-E	QA	AUX MACHINERY SPACE	2	B	L	0.99	0.99	0.95	0.93	0.7	0.9	0.85	0.53	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.24
4-188-0-E	QA	STEERING GEAR ROOM	2	B	M	0.99	0.99	0.95	0.93	0.9	0.9	0.85	0.68	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.31
1-146-0-Q	QG	GALLEY	2	B	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.9	1	1	0.9	1	1	0.9	0.9	0.53

An=dan*nan*san where dan=detection of fire, nan=notification of Bridge, and san=sound the alarm

Ap=fap*vap*cap where fap=secure the fuel supply, vap=secure the ventilation, and cap=secure the electrical power

Aa=saa*aaa*daa where saa=alignment of automated system, aaa=agent discharges from nozzle, and daa=agent discharges on the fire

Ae=qae*cae*bae where qae=quantity of agent is adequate, cae=concentration of agent is adequate, and bae=blackout occurs

A|EB=An*Ap*Aa*Ae where An=Notification, Ap=Preparation, Aa=Agent Application, and Ae=Fire Extinguishment

Installed Automated Systems:

Fixed CO2 Total Flooding System in the Flammable Liquids Storeroom, Aqueous Potassium Carbonate System in the Galley, and AFFF Bilge Sprinkling in the Engine Room, Auxiliary Machinery Spaces and Steering Gear Room.

Notes:

The Galley is occupied 30% of the time, however, it is assumed that if a grease fire occurs on the Galley stove, it is assumed that a crew member is present in the Galley.

The probability of the Galley's automated system successfully extinguishing the fire is based on grease fires on the stove only.

CGC DEPENDABLE
12/31/98
MODEL RUN 15-67

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive, Automatic, and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.3063
03-62-0-C	2	26 years	0.1067
01-99-0-Q	2	23 years	0.0935
02-56-1-C	2	26 years	0.0586
02-90-0-Q	3	18 years	0.0387
02-56-2-C	2	26 years	0.0386
01-92-0-Q	2	22 years	0.0350
1-108-0-Q	2	23 years	0.0338
1-20-0-Q	3	19 years	0.0308
2-136-0-C	2	26 years	0.0302
1-114-2-Q	2	20 years	0.0273
2-172-1-A	2	22 years	0.0270
1-93-0-L	2	24 years	0.0269
4-188-0-E	2	26 years	0.0245
1-121-0-L	2	24 years	0.0238
1-20-2-A	2	25 years	0.0234
1-99-1-Q	2	22 years	0.0204
1-148-0-Q	2	20 years	0.0140
2-156-02-A	2	23 years	0.0137
1-159-2-A	2	23 years	0.0109
1-159-1-A	2	23 years	0.0109
4-143-0-A	2	25 years	0.0095
2-156-1-A	2	23 years	0.0028
2-156-0-A	2	23 years	0.0028
1-63-1-Q	3	18 years	0.0024
4-156-0-E	2	26 years	0.0015
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-68

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive and Automatic
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.3304
03-62-0-C	2	26 years	0.1991
01-99-0-Q	2	23 years	0.1206
02-56-1-C	2	26 years	0.0856
02-56-2-C	2	26 years	0.0620
02-90-0-Q	3	18 years	0.0492
1-93-0-L	2	24 years	0.0462
2-172-1-A	2	22 years	0.0442
1-121-0-L	2	24 years	0.0438
01-92-0-Q	2	22 years	0.0435
2-136-0-C	2	26 years	0.0434
1-108-0-Q	2	23 years	0.0433
1-114-2-Q	2	20 years	0.0419
1-20-0-Q	3	19 years	0.0401
1-20-2-A	2	25 years	0.0353
2-156-02-A	2	23 years	0.0342
4-188-0-E	2	26 years	0.0322
1-99-1-Q	2	22 years	0.0310
1-148-0-Q	2	20 years	0.0207
1-159-2-A	2	23 years	0.0184
1-159-1-A	2	23 years	0.0184
4-143-0-A	2	25 years	0.0137
2-156-1-A	2	23 years	0.0045
2-156-0-A	2	23 years	0.0045
1-63-1-Q	3	18 years	0.0024
4-156-0-E	2	26 years	0.0024
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-69

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.3990
03-62-0-C	2	26 years	0.1067
01-99-0-Q	2	23 years	0.0970
02-56-1-C	2	26 years	0.0586
02-90-0-Q	3	18 years	0.0402
2-136-0-C	2	26 years	0.0392
02-56-2-C	2	26 years	0.0386
1-108-0-Q	2	23 years	0.0361
01-92-0-Q	2	22 years	0.0357
4-188-0-E	2	26 years	0.0328
2-172-1-A	2	22 years	0.0310
1-20-0-Q	3	19 years	0.0308
1-114-2-Q	2	20 years	0.0307
1-121-0-L	2	24 years	0.0305
1-93-0-L	2	24 years	0.0284
1-148-0-Q	2	20 years	0.0259
1-20-2-A	2	25 years	0.0234
1-99-1-Q	2	22 years	0.0217
1-159-2-A	2	23 years	0.0202
1-159-1-A	2	23 years	0.0202
2-156-02-A	2	23 years	0.0145
4-143-0-A	2	25 years	0.0095
2-156-1-A	2	23 years	0.0053
2-156-0-A	2	23 years	0.0053
1-63-1-Q	3	18 years	0.0024
4-156-0-E	2	26 years	0.0019
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-70

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.0166
03-62-0-C	2	26 years	0.0077
01-99-0-Q	2	23 years	0.0056
02-56-1-C	2	26 years	0.0033
02-56-2-C	2	26 years	0.0024
2-136-0-C	2	26 years	0.0022
1-121-0-L	2	24 years	0.0022
02-90-0-Q	3	18 years	0.0029
1-93-0-L	2	24 years	0.0021
2-172-1-A	2	22 years	0.0023
1-114-2-Q	2	20 years	0.0024
1-108-0-Q	2	23 years	0.0021
01-92-0-Q	2	22 years	0.0021
4-188-0-E	2	26 years	0.0016
1-20-0-Q	3	19 years	0.0021
2-156-02-A	2	23 years	0.0017
1-148-0-Q	2	20 years	0.0018
1-20-2-A	2	25 years	0.0014
1-99-1-Q	2	22 years	0.0016
1-159-1-A	2	23 years	0.0014
1-159-2-A	2	23 years	0.0014
4-143-0-A	2	25 years	0.0005
2-156-1-A	2	23 years	0.0003
2-156-0-A	2	23 years	0.0003
4-156-0-E	2	26 years	0.0001
1-63-1-Q	3	18 years	0.0001
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-71

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive, Automatic, and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0041
01-99-0-Q	2	23 years	0.0041
02-56-1-C	2	26 years	0.0023
02-90-0-Q	3	18 years	0.0022
02-56-2-C	2	26 years	0.0015
01-92-0-Q	2	22 years	0.0016
1-108-0-Q	2	23 years	0.0015
1-114-2-Q	2	20 years	0.0014
1-93-0-L	2	24 years	0.0011
1-121-0-L	2	24 years	0.0010
1-99-1-Q	2	22 years	0.0009
2-172-1-A	2	22 years	0.0008
4-108-0-E	2	26 years	0.0006
1-148-0-Q	2	20 years	0.0007
2-156-02-A	2	23 years	0.0005
1-159-2-A	2	23 years	0.0005
1-159-1-A	2	23 years	0.0005
4-143-0-A	2	25 years	0.0004
4-188-0-E	2	26 years	0.0002
2-156-1-A	2	23 years	0.0001
2-156-0-A	2	23 years	0.0001
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-72

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Automatic
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0074
01-99-0-Q	2	23 years	0.0052
02-56-1-C	2	26 years	0.0032
02-56-2-C	2	26 years	0.0022
02-90-0-Q	3	18 years	0.0027
1-93-0-L	2	24 years	0.0019
1-121-0-L	2	24 years	0.0018
01-92-0-Q	2	22 years	0.0020
1-108-0-Q	2	23 years	0.0019
1-114-2-Q	2	20 years	0.0021
1-99-1-Q	2	22 years	0.0014
2-172-1-A	2	22 years	0.0013
2-156-02-A	2	23 years	0.0011
1-148-0-Q	2	20 years	0.0010
4-108-0-E	2	26 years	0.0008
1-159-2-A	2	23 years	0.0008
1-159-1-A	2	23 years	0.0008
4-143-0-A	2	25 years	0.0005
4-188-0-E	2	26 years	0.0004
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-73

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0041
01-99-0-Q	2	23 years	0.0042
02-56-1-C	2	26 years	0.0023
02-90-0-Q	3	18 years	0.0022
02-56-2-C	2	26 years	0.0015
1-108-0-Q	2	23 years	0.0016
01-92-0-Q	2	22 years	0.0016
1-114-2-Q	2	20 years	0.0015
1-121-0-L	2	24 years	0.0013
1-93-0-L	2	24 years	0.0012
1-148-0-Q	2	20 years	0.0013
1-99-1-Q	2	22 years	0.0010
1-159-2-A	2	23 years	0.0009
1-159-1-A	2	23 years	0.0009
4-108-0-E	2	26 years	0.0008
2-172-1-A	2	22 years	0.0008
2-156-02-A	2	23 years	0.0005
4-143-0-A	2	25 years	0.0004
4-188-0-E	2	26 years	0.0003
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 15-74

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port Post-Paragon, In Home Port M-values (rev. A-vals)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0074
01-99-0-Q	2	23 years	0.0056
02-56-1-C	2	26 years	0.0032
02-56-2-C	2	26 years	0.0022
1-121-0-L	2	24 years	0.0022
02-90-0-Q	3	18 years	0.0029
1-93-0-L	2	24 years	0.0021
1-114-2-Q	2	20 years	0.0024
1-108-0-Q	2	23 years	0.0021
01-92-0-Q	2	22 years	0.0021
1-148-0-Q	2	20 years	0.0018
1-99-1-Q	2	22 years	0.0016
1-159-1-A	2	23 years	0.0014
1-159-2-A	2	23 years	0.0014
2-172-1-A	2	22 years	0.0013
4-108-0-E	2	26 years	0.0011
2-156-02-A	2	23 years	0.0011
4-143-0-A	2	25 years	0.0005
4-188-0-E	2	26 years	0.0005
2-156-1-A	2	23 years	0.0003
2-156-0-A	2	23 years	0.0003
4-156-0-E	2	26 years	0.0001
1-63-1-Q	3	18 years	0.0001
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE M-VALUES ALTERNATIVE (AWAY FROM HOMEPURT) IN PORT

11/17/98

D-23

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmn	nmn	snn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	Qme	cme	bme	Me	M EB	
3-12-0-Q	AG	CHAIN LOCKER			15	A	S	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	1	1	0.8	0.8	1	1	1	0.95	0.95	0.18
2-52-02-A	AG	CLEANING GEAR LOCKER			31	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.26
2-75-1-A	AG	WARDROBE			¥	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.95	0.95	0.23
2-78-0-A	AG	HS STORES			¥	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	0.8	0.72	1	1	1	0.8	0.8	0.15
2-78-2-A	AG	REC LKR			11	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	0.9	0.81	1	1	1	0.95	0.95	0.21
2-180-2-A	AG	REPAIR PARTY LOCKER			4	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.9	1	0.67	1	1	1	0.95	0.95	0.17
1-20-2-A	AG	GENERAL STORES			16	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.19
1-52-1-A	AG	SHIPS SERVICE STORE			¥	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.95	0.95	0.23
1-57-1-A	AG	FWD REPAIR LOCKER			14	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.95	0.95	0.23
1-72-0-A	AG	REPAIR ANNEX			1	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.2	0.9	0.9	0.16	1	1	1	0.95	0.95	0.04
01-89-2-A	AG	EQPT LKR			¥	A	S	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.26
2-156-0-A	AR	THAW BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	1	0.8	0.8	0.11
2-156-1-A	AR	FREEZER BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	1	0.8	0.8	0.11
2-164-2-A	AR	CHILL BOX			4	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	0.75	0.8	0.9	0.54	1	1	1	0.8	0.8	0.11
4-32-0-A	AS	STOREROOM	2-22		8	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.99	0.9	1	0.89	1	1	1	0.8	0.8	0.49
4-143-0-A	AS	ENGINEERS STOREROOM	8-23		12	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.50
2-16-0-A	AS	BOSUN'S STORES	1-7	10	¥	A	M	0.99	0.99	0.95	0.93	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.54
2-156-02-A	AS	DRY PROVISIONS STORES	8-25		29	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.50
2-172-1-A	AS	HAWSER & RESCUE EQUIPMENT STORAGE	8-26		2	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	0.6	1	1	0.6	1	1	1	0.8	0.8	0.33
1-1-0-A	AS	GENERAL STORES	1-8		18	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.50
1-12-0-A	AS	BOSUN'S STORES			¥	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.19
1-159-1-A	AS	DRY STORES			¥	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.19
1-159-2-A	AS	DRY PROVISIONS STORES			22	A	M	0.4	0.9	0.95	0.34	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.19
3-72-0-C	C	IC AND GYRO ROOM	4-56		7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.99	1	1	0.99	0.9	0.9	0.8	0.64	0.42	
2-136-0-C	C	CONTROL BOOTH	6-11		5	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.9	1	1	0.9	0.9	0.9	0.8	0.64	0.38	
02-56-1-C	C	RADIO ROOM	11-110/11-111		8	C	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	0.99	0.8	0.8	0.63	0.9	0.9	0.8	0.64	0.29	
02-56-2-C	C	CIC ROOM	11-109		7	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.99	0.8	0.85	0.67	0.9	0.9	0.8	0.64	0.28	
03-62-0-C	C	PILOT HOUSE	12-123		9	C	M	0.95	0.95	1	0.90	1	0.9	0.85	0.76	0.99	1	0.85	0.84	0.9	0.9	0.8	0.64	0.37	
4-108-0-E	EM	ENGINE ROOM	6-7 to 6-10	7, 13, 14	3	B	L	0.99	0.99	0.95	0.93	0.8	0.8	0.8	0.51	0.7	1	0.8	0.56	0.95	0.95	0.65	0.58	0.15	
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2-21		2	B	L	0.95	0.95	0.95	0.85	1	0.8	0.9	0.72	0.6	1	1	0.6	0.95	0.95	0.65	0.58	0.21	
2-72-1-L	L1	ENGINEERING OFFICER STATEROOM	4-55		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.50
01-44-0-L	L1	CO STATEROOM	10-98		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.50
01-44-1-L	L1	CO CABIN	10-97		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.500
01-72-0-L	L1	EXEC OFF	10-93		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.9	0.81	1	0.9	1	0.9	1	1	1	0.8	0.8	0.500

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmm	smm	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	Qme	cme	bme	Me	MEB
01-72-01-L	L1	OPS OFFICER	10-95		¥	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	0.8	0.8	0.500	
2-72-4-L	L2	OFFICER	4-50		31	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
2-84-1-L	L2	OFFICER	4-54		26	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
2-84-2-L	L2	OFFICER	4-51		26	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
2-96-1-L	L2	CPO STATEROOM	4-53		25	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
2-96-2-L	L2	CPO STATEROOM	4-52		24	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
01-59-0-L	L2	OFFICER	10-96		¥	A	M	0.95	0.95	0.85	1	0.9	0.81	1	0.9	1	1	0.8	1	1	0.8	0.50	
2-32-01-L	L5	CREWS BERTHING	2-20		¥	A	M	0.95	0.95	0.85	1	0.9	0.81	1	1	0.9	1	1	1	0.8	1	0.8	0.50
2-52-01-L	L5	CREWS BERTHING	3-34/3-35		¥	A	M	0.99	0.99	0.93	1	0.9	0.81	1	1	0.9	1	1	1	0.8	1	0.8	0.54
-32-0-L	L5	CREWS BERTHING	2-19		¥	A	M	0.95	0.95	0.85	1	0.9	0.81	1	1	0.9	1	1	1	0.8	1	0.8	0.50
-52-0-L	L5	CREWS BERTHING	3-33		¥	A	M	0.95	0.95	0.85	1	0.9	0.81	1	1	0.9	1	1	1	0.8	1	0.8	0.50
-180-0-L	LL	WARDROOM	4-47		¥	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	1	0.9	1	1	1	0.8	1	0.47
-193-0-L	LL	CPO MESS	4-48		¥	A	M	0.95	0.95	0.85	1	0.9	0.85	0.76	1	1	0.9	1	1	1	0.8	1	0.47
-1-121-0-L	LL	CREWS MESS	5-68/5-70	5	¥	A	M	0.99	0.99	0.93	1	0.9	0.85	0.76	1	1	0.9	1	1	1	0.8	1	0.51
-1-114-0-L	LM	DISPENSARY	5-67		¥	A	M	0.95	0.95	0.95	1	0.9	0.85	0.76	1	1	0.9	1	1	1	0.8	1	0.54
-4-52-01-L	LP	PASSAGEWAY		11	¥	A	S	0.95	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	1	1	0.42
2-76-0A-L	LP	PASSAGEWAY			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-76-0B-L	LP	PASSAGEWAY			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-96-0-L	LP	PASSAGEWAY			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-140-0A-L	LP	PASSAGEWAY			8	¥	A	S	0.95	0.95	0.95	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-140-0B-L	LP	PASSAGEWAY			8	¥	A	S	0.95	0.95	0.95	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-143-2-L	LP	STAIRWAY			8	¥	A	S	0.95	0.95	0.95	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-156-01A-L	LP	PASSAGEWAY	8-27	9	¥	A	S	0.99	0.99	0.95	0.93	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-156-01B-L	LP	PASSAGEWAY	8-27	9	¥	A	S	0.99	0.99	0.95	0.93	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-156-01C-L	LP	PASSAGEWAY	8-27	9	¥	A	S	0.99	0.99	0.95	0.93	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
2-172-0-L	LP	PASSAGEWAY			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	1	0.95
-1-52-01A-L	LP	PASSAGEWAY			2	¥	A	S	0.95	0.95	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	0.95
-1-52-01B-L	LP	PASSAGEWAY			2	¥	A	S	0.95	0.95	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	0.95
-1-52-01C-L	LP	PASSAGEWAY			2	¥	A	S	0.95	0.95	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	0.95
-1-108-1-L	LP	PASSAGEWAY			2	¥	A	S	0.5	0.9	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	0.95
-1-143-2-L	LP	STAIRWAY			2	¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95
01-69-0-L	LP	PASSAGEWAY			1	¥	A	S	0.5	0.9	0.95	0.85	1	0.9	0.81	1	1	1	1	1	1	1	0.95
02-69-2-L	LP	PASSAGEWAY			1	¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95
02-69-4-L	LP	VESTIBULE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-32-0-L	LW	CREWS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-52-0-L	LW	CREWS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-72-0-L	LW	OFFICERS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-72-2-L	LW	OFFICERS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-88-1-L	LW	OFFICERS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-88-2-L	LW	OFFICERS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	
2-99-0-L	LW	CPO SANITARY			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	

Plan ID	CUI	Comp	New Detectors	In View of Cam	Act FRI	Class	Size	dmm	nmm	snn	Mn	fmp	vmp	pmp	Mp	sma	ama	dma	Ma	Qme	cme	bme	Me	MEB	
1-20-4-Q	LW	SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
1-52-2-L	LW	DECON SHWR CREWS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
01-44-2-L	LW	CO SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
01-56-2-L	LW	OFFICERS SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
01-87-0-L	LW	XO SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
01-87-1-L	LW	OPS OFFICER SANITARY SPACE			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.81	1	1	1	1	1	1	1	0.95	0.95	0.32	
4-84-0-Q	QA	A/C MACHINERY AND SEWAGE DISPOSAL ROOM	4-57		2	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.64	0.22	
3-96-0-E	QA	AUX MACHINERY SPACE	6-6	12	2	C	M	0.99	0.99	0.95	0.93	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.64	0.24	
4-156-0-E	QA	AUX MACHINERY SPACE	8-22	15	2	B	M	0.99	0.99	0.95	0.93	0.7	0.9	0.85	0.53	0.6	1	0.9	0.54	0.85	0.85	0.8	0.57	0.15	
4-188-0-E	QA	STEERING GEAR ROOM	9-38	16	2	B	M	0.99	0.99	0.95	0.93	0.9	0.9	0.85	0.68	0.6	1	0.8	0.48	0.85	0.85	0.8	0.57	0.17	
01-92-0-Q	QA	HELICOPTER SERVICE	10-94		2	C	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.9	0.9	0.8	0.64	0.22	
-1-63-1-Q	QF	FAN ROOM			1	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.9	0.95	0.76	0.03	
-1-63-2-Q	QF	FAN ROOM			1	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.2	1	0.9	0.18	0.9	0.9	0.95	0.76	0.03	
02-81-2-Q	QF	FAN ROOM			2	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.9	0.95	0.76	0.07	
02-90-0-Q	QF	PLENUM ROOM	5-69		2	C	S	0.4	0.9	0.95	0.34	1	0.9	0.85	0.76	0.4	1	0.9	0.36	0.9	0.9	0.95	0.76	0.07	
-1-114-2-Q	QG	SCULLERY			2	A	S	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	1	0.6	1	1	1	0.95	0.95	0.37
-1-146-0-Q	QG	GALLEY			2	B	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.6	1	0.9	0.54	0.85	0.85	0.8	0.57	0.20	
-1-20-0-Q	QL	LAUNDRY	1-6		3	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	0.7	1	1	0.7	1	1	1	0.8	0.36	
2-143-2-Q	QQ	ENGINEERING OFFICE	8-28		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	1	0.9	1	1	1	0.8	0.47	
1-72-2-Q	QQ	SUPPLY OFFICE	4-46		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.42	
-1-99-1-Q	QQ	SHIPS OFFICE	4-49		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.42	
2-140-1-Q	QS	ENGINEERS WORKSHOP	8-24		¥	A	S	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.42	
2-172-2-Q	QS	ELECTRIC WORKSHOP			¥	A	S	0.5	0.9	0.95	0.42	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.21	
02-78-1-Q	QS	ELEC LAB AND STORAGE	11-108		¥	A	M	0.95	0.95	0.95	0.85	1	0.9	0.85	0.76	1	0.9	0.9	0.81	1	1	1	0.8	0.42	
3-52-2-M	TH	AMMO HOIST			2	A	S	0.4	0.9	0.95	0.34	1	0.9	0.81	0.4	1	0.9	0.36	1	1	1	0.95	0.95	0.09	
-1-108-0-Q	TU	UPTAKE			2	B	L	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	0.4	1	0.9	0.36	0.85	0.85	0.65	0.46	0.04	
01-99-0-Q	TU	UPTAKE AND FAN ROOM			3	B	L	0.4	0.9	0.95	0.34	1	0.8	0.9	0.72	0.6	1	0.9	0.54	0.85	0.85	0.65	0.46	0.06	

CGC DEPENDABLE

A-VALUES ALTERNATIVE (AWAY FROM HOMEPORT) IN PORT

Plan ID	CUI	Comp	FRI	Class	Size	dan	nan	san	An	fap	vap	pap	Ap	saa	aaa	daa	Aa	qae	cae	bae	Ae	A EB
4-108-0-E	EM	ENGINE ROOM	3	B	L	0.99	0.99	0.95	0.931	0.8	0.8	0.8	0.512	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.233
4-16-0-K	K	FLAMMABLE LIQUIDS STOREROOM	2	B	L	0.95	0.95	0.95	0.857	1	0.8	0.9	0.72	0.95	1	1	0.95	1	0.9	0.85	0.765	0.448
3-96-0-E	QA	AUX MACHINERY SPACE	2	B	M	0.99	0.99	0.95	0.931	1	0.9	0.85	0.765	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.348
4-156-0-E	QA	AUX MACHINERY SPACE	2	B	L	0.99	0.99	0.95	0.931	0.7	0.9	0.85	0.535	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.244
4-188-0-E	QA	STEERING GEAR ROOM	2	B	M	0.99	0.99	0.95	0.931	0.9	0.9	0.85	0.688	0.85	1	0.8	0.68	0.9	1	0.8	0.72	0.313
1-146-0-Q	QG	GALLEY	2	B	M	0.95	0.95	0.95	0.857	1	0.9	0.85	0.765	0.9	1	1	0.9	1	1	0.9	0.9	0.531

An=dan*nan*san where dan=detection of fire, nan=notification of Bridge, and san=sound the alarm

Ap=fap*vap*cap where fap=secure the fuel supply, vap=secure the ventilation, and cap=secure the electrical power

Aa=saa*aaa*daa where saa=alignment of automated system, aaa=agent discharges from nozzle, and daa=agent discharges on the fire

Ae=qae*cae*bae where qae=quantity of agent is adequate, cae=concentration of agent is adequate, and bae=blackout occurs

A|EB=An*Ap*Aa*Ae where An=Notification, Ap=Preparation, Aa=Agent Application, and Ae=Fire Extinguishment

Installed Automated Systems:

Fixed CO2 Total Flooding System in the Flammable Liquids Storeroom, Aqueous Potassium Carbonate System in the Galley, and AFFF Bilge Sprinkling in the Engine Room, Auxiliary Machinery Spaces and Steering Gear Room.

Notes:

The Galley is occupied 30% of the time, however, it is assumed that if a grease fire occurs on the Galley stove, it is assumed that a crew member is present in the Galley.

The probability of the Galley's automated system successfully extinguishing the fire is based on grease fires on the stove only.

CGC DEPENDABLE
12/31/98
MODEL RUN 16-75

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive, Automatic, and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.0105
01-99-0-Q	2	23 years	0.0036
03-62-0-C	2	26 years	0.0030
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0020
1-108-0-Q	2	23 years	0.0014
02-56-2-C	2	26 years	0.0012
01-92-0-Q	2	22 years	0.0014
1-114-2-Q	2	20 years	0.0013
1-20-0-Q	3	19 years	0.0013
4-188-0-E	2	26 years	0.0008
2-136-0-C	2	26 years	0.0008
1-93-0-L	2	24 years	0.0009
2-172-1-A	2	22 years	0.0009
1-121-0-L	2	24 years	0.0008
1-99-1-Q	2	22 years	0.0008
1-20-2-A	2	25 years	0.0007
1-148-0-Q	2	20 years	0.0006
1-159-2-A	2	23 years	0.0004
1-159-1-A	2	23 years	0.0004
4-143-0-A	2	25 years	0.0003
2-156-02-A	2	23 years	0.0003
1-63-1-Q	3	18 years	0.0001
2-156-1-A	2	23 years	0.0000
2-156-0-A	2	23 years	0.0000
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-76

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive and Automatic
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.3304
03-62-0-C	2	26 years	0.1991
01-99-0-Q	2	23 years	0.1206
02-56-1-C	2	26 years	0.0856
02-56-2-C	2	26 years	0.0620
02-90-0-Q	3	18 years	0.0492
1-93-0-L	2	24 years	0.0462
2-172-1-A	2	22 years	0.0442
1-121-0-L	2	24 years	0.0438
01-92-0-Q	2	22 years	0.0435
2-136-0-C	2	26 years	0.0434
1-108-0-Q	2	23 years	0.0433
1-114-2-Q	2	20 years	0.0419
1-20-0-Q	3	19 years	0.0401
1-20-2-A	2	25 years	0.0353
2-156-02-A	2	23 years	0.0342
4-188-0-E	2	26 years	0.0322
1-99-1-Q	2	22 years	0.0310
1-148-0-Q	2	20 years	0.0207
1-159-2-A	2	23 years	0.0184
1-159-1-A	2	23 years	0.0184
4-143-0-A	2	25 years	0.0137
2-156-1-A	2	23 years	0.0045
2-156-0-A	2	23 years	0.0045
1-63-1-Q	3	18 years	0.0024
4-156-0-E	2	26 years	0.0024
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-77

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.0137
01-99-0-Q	2	23 years	0.0037
03-62-0-C	2	26 years	0.0030
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0021
1-108-0-Q	2	23 years	0.0015
01-92-0-Q	2	22 years	0.0014
02-56-2-C	2	26 years	0.0012
4-188-0-E	2	26 years	0.0011
1-114-2-Q	2	20 years	0.0014
2-136-0-C	2	26 years	0.0011
1-20-0-Q	3	19 years	0.0013
1-121-0-L	2	24 years	0.0010
1-148-0-Q	2	20 years	0.0011
1-93-0-L	2	24 years	0.0009
2-172-1-A	2	22 years	0.0010
1-99-1-Q	2	22 years	0.0008
1-20-2-A	2	25 years	0.0007
1-159-2-A	2	23 years	0.0007
1-159-1-A	2	23 years	0.0007
4-143-0-A	2	25 years	0.0003
2-156-02-A	2	23 years	0.0003
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-78

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . XRAY
CONFIGURATION Passive
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
4-108-0-E	2	26 years	0.4317
03-62-0-C	2	26 years	0.1991
01-99-0-Q	2	23 years	0.1284
02-56-1-C	2	26 years	0.0856
02-56-2-C	2	26 years	0.0620
2-136-0-C	2	26 years	0.0564
1-121-0-L	2	24 years	0.0529
02-90-0-Q	3	18 years	0.0517
1-93-0-L	2	24 years	0.0509
2-172-1-A	2	22 years	0.0508
1-114-2-Q	2	20 years	0.0483
1-108-0-Q	2	23 years	0.0478
01-92-0-Q	2	22 years	0.0452
4-188-0-E	2	26 years	0.0428
1-20-0-Q	3	19 years	0.0401
2-156-02-A	2	23 years	0.0382
1-148-0-Q	2	20 years	0.0360
1-20-2-A	2	25 years	0.0353
1-99-1-Q	2	22 years	0.0343
1-159-1-A	2	23 years	0.0328
1-159-2-A	2	23 years	0.0319
4-143-0-A	2	25 years	0.0137
2-156-1-A	2	23 years	0.0079
2-156-0-A	2	23 years	0.0079
4-156-0-E	2	26 years	0.0031
1-63-1-Q	3	18 years	0.0024
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-79

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive, Automatic, and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
01-99-0-Q	2	23 years	0.0036
03-62-0-C	2	26 years	0.0030
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0020
1-108-0-Q	2	23 years	0.0014
02-56-2-C	2	26 years	0.0012
01-92-0-Q	2	22 years	0.0014
1-114-2-Q	2	20 years	0.0013
1-93-0-L	2	24 years	0.0009
1-121-0-L	2	24 years	0.0008
1-99-1-Q	2	22 years	0.0008
2-172-1-A	2	22 years	0.0006
1-148-0-Q	2	20 years	0.0006
4-108-0-E	2	26 years	0.0004
1-159-2-A	2	23 years	0.0004
1-159-1-A	2	23 years	0.0004
4-143-0-A	2	25 years	0.0003
2-156-02-A	2	23 years	0.0003
4-188-0-E	2	26 years	0.0002
1-63-1-Q	3	18 years	0.0001
2-156-1-A	2	23 years	0.0000
2-156-0-A	2	23 years	0.0000
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-80

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Automatic
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0074
01-99-0-Q	2	23 years	0.0052
02-56-1-C	2	26 years	0.0032
02-56-2-C	2	26 years	0.0022
02-90-0-Q	3	18 years	0.0027
1-93-0-L	2	24 years	0.0019
1-121-0-L	2	24 years	0.0018
01-92-0-Q	2	22 years	0.0020
1-108-0-Q	2	23 years	0.0019
1-114-2-Q	2	20 years	0.0021
1-99-1-Q	2	22 years	0.0014
2-172-1-A	2	22 years	0.0013
2-156-02-A	2	23 years	0.0011
1-148-0-Q	2	20 years	0.0010
4-108-0-E	2	26 years	0.0008
1-159-2-A	2	23 years	0.0008
1-159-1-A	2	23 years	0.0008
4-143-0-A	2	25 years	0.0005
4-188-0-E	2	26 years	0.0004
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-81

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive and Manual
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
01-99-0-Q	2	23 years	0.0037
03-62-0-C	2	26 years	0.0030
02-56-1-C	2	26 years	0.0018
02-90-0-Q	3	18 years	0.0021
1-108-0-Q	2	23 years	0.0015
01-92-0-Q	2	22 years	0.0014
02-56-2-C	2	26 years	0.0012
1-114-2-Q	2	20 years	0.0014
1-121-0-L	2	24 years	0.0010
1-148-0-Q	2	20 years	0.0011
1-93-0-L	2	24 years	0.0009
1-99-1-Q	2	22 years	0.0008
4-108-0-E	2	26 years	0.0006
1-159-2-A	2	23 years	0.0007
1-159-1-A	2	23 years	0.0007
2-172-1-A	2	22 years	0.0006
4-143-0-A	2	25 years	0.0003
4-188-0-E	2	26 years	0.0003
2-156-02-A	2	23 years	0.0003
2-156-1-A	2	23 years	0.0002
2-156-0-A	2	23 years	0.0002
1-63-1-Q	3	18 years	0.0001
4-156-0-E	2	26 years	0.0000
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000

CGC DEPENDABLE
12/31/98
MODEL RUN 16-82

INDIVIDUAL TARGET OPTION - SUMMARY LEVEL REPORT

RELATIVE LOSS FACTORS OF INDIVIDUAL TARGETS

READINESS CONDITION . YOKE
CONFIGURATION Passive
CASE. Worst
ASSUMED LOCATION. . . in Port
RUN TIME. 60 minutes
COMMENTS.
Alternative, In-Port, Post-Paragon, Away from Home Port M-vals (rev.)

Targets listed include all compartments in model run with Magnitude of Acceptable Loss 1-3 and Relative Loss Factor (RLF) > 0.0000.

TARGET COMPART.	Magnitude/Frequency -of Acceptable Loss-	Rel Freq of Loss FFS	Relative Loss Factor (RLF)
03-62-0-C	2	26 years	0.0074
01-99-0-Q	2	23 years	0.0056
02-56-1-C	2	26 years	0.0032
02-56-2-C	2	26 years	0.0022
1-121-0-L	2	24 years	0.0022
02-90-0-Q	3	18 years	0.0029
1-93-0-L	2	24 years	0.0021
1-114-2-Q	2	20 years	0.0024
1-108-0-Q	2	23 years	0.0021
01-92-0-Q	2	22 years	0.0021
1-148-0-Q	2	20 years	0.0018
1-99-1-Q	2	22 years	0.0016
1-159-1-A	2	23 years	0.0014
1-159-2-A	2	23 years	0.0014
2-172-1-A	2	22 years	0.0013
4-108-0-E	2	26 years	0.0011
2-156-02-A	2	23 years	0.0011
4-143-0-A	2	25 years	0.0005
4-188-0-E	2	26 years	0.0005
2-156-1-A	2	23 years	0.0003
2-156-0-A	2	23 years	0.0003
4-156-0-E	2	26 years	0.0001
1-63-1-Q	3	18 years	0.0001
3-52-2-M	3	18 years	0.0000
4-32-0-A	2	21 years	0.0000