

Detailed Technical Information

Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2

Line Item	Function	Manufacturer / Model Number	Action Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
1	UHF MilSatcom 2 (25 kHz Non-DAMA)	Raytheon AN/PSC-5D + Crypto	291 to 318.3 MHz	100 watts	Mean	0.0001	398.107	FM	19K4F1D	303.25 MHz	Post DD250 Passing OTH-G track msg. to US Gov mobil asset	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-202	MILSATCOM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
2	UHF MilSatcom 2 (25 kHz Non-DAMA)	Raytheon AN/PSC-5D + Crypto	291 to 318.3 MHz	100 watts	Mean	0.0001	398.107	PM	30K0G1D	303.25 MHz	Post DD250 Passing OTH-G track msg. to US Gov mobil asset	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-202	MILSATCOM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
3	VHF Marine-DSC (Voice)	ACR 2727 Handheld (Secondary)	156 to 162 MHz	500 mWatts	Mean	0.00003	0.723	FM	16K0F3E	156.95 MHz	Communication w/mobile marine asset for safety Navigation	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-201	VHF MARINE RADIO COMM TEST (LM)	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)
4	VHF Marine-DSC (Voice)	ACR 2727 Handheld (Secondary)	156 to 162 MHz	500 mWatts	Mean	0.00003	0.723	PM	16K0G3E	156.95 MHz	Communication w/mobile marine asset for safety Navigation	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-201	VHF MARINE RADIO COMM TEST (LM)	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)
5	IFF Interrogator	AN/UPX-37	1030 MHz	30 Watts	Mean	0.0194	475.468	Pulse	18M0M1D	1030. MHz	Identify Targets of Opportunity Friend or Foe	Equipment is approved for operations by FCC/FAA/NTIA	45510-5-203	IFF INTERROGATOR INTERFACE TEST		
6	IFF Interrogator	AN/UPX-37	1030 MHz	30 Watts	Mean	0.0194	475.468	Pulse	10M0M1D,	1030. MHz	Identify Targets of Opportunity Friend or Foe	Equipment is approved for operations by FCC/FAA/NTIA	45510-5-203	IFF INTERROGATOR INTERFACE TEST		
7	TACAN	AN/URN-25	962 MHz - 1213.0 MHz	300	mean	0.002	753.566	Pulse	650KM1D	Chan 1 & Chan 126	Provide Heading to fly to approaching Aircraft..Cert at Sea by FAA aircraft	Equipment is approved for operations by FCC/FAA/NTIA	42313-3-005	TACAN TRANS AN/URN-25(V)2 FUNCT	42313-7-001	TACAN BEACON SYS CERIT TST (BT)
8	IFF Transponder	APX-118	1090 MHz	600	peak	.00001	572.996	Pulse	10M0M1D	1090 MHz	Identify Own Self to other marine and air IFF Interigators	Equipment is approved for operations by FCC/FAA/NTIA	45510-5-202	IFF TRANSPONDER TEST		
9	IFF Transponder	APX-118	1090 MHz	600	peak	.00001	572.996	Pulse	11M9M1D	1090 MHz	Identify Own Self to other marine and air IFF Interigators	Equipment is approved for operations by FCC/FAA/NTIA	45510-5-202	IFF TRANSPONDER TEST		
10	IFF Transponder	APX-118	1090 MHz	600	peak	.00001	572.996	Pulse	14M0M1D	1090 MHz	Identify Own Self to other marine and air IFF Interigators	Equipment is approved for operations by FCC/FAA/NTIA	45510-5-202	IFF TRANSPONDER TEST		
11	S-Band Nav Radar	FR-2135	3050 MHz +- 30 MHz	13.5 Watts	Mean	0.0098	3022.27	Pulse	67M5P0N	3050 MHz	Self navigation displays	Equipment is approved for operations by FCC/FAA/NTIA	45112-4-201	SSR/S & /X VERIF TEST (LM)	45114-7-200	RADAR DEMONSTRATION (BT) (LM)
12	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	4.7314 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
13	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	6.2000MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
14	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	6.7104 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
15	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	8.1964 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
16	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	8.2984 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
17	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	9.0374 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
18	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	11.1974 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
19	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	12.2434 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
20	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	12.3544 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
21	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	16.3764 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
22	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	16.5294 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
23	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	18.8164 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
24	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	22.0074 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		

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25	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80J3E	22.1604 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
26	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	4.7314 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
27	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	6.2000MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
28	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	6.7104 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
29	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	8.1964 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
30	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	8.2984 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
31	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	9.0374 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
32	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	11.1974 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
33	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	12.2434 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
34	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	12.3544 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
35	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	16.3764 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
36	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	16.5294 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
37	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	18.8164 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
38	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	22.0074 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
39	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	2K80R3E	22.1604 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
40	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	4.7314 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
41	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	6.2000MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
42	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	6.7104 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
43	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	8.1964 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		
44	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	8.2984 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM		

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Line Item	Function	Manufacturer / Model Number	Action Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
45	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	9.0374 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
46	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	11.1974 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
47	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	12.2434 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
48	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	12.3544 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
49	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	16.3764 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
50	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	16.5294 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
51	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	18.8164 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
52	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	22.0074 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
53	HF-Radiotelephony	Furuno FS-5000T	1.6 to 27.5 MHz	187 Watts	Mean	0.0000007	100.237	AM	300HF1B	22.1604 MHz	Transmition of GMDSS to Mobile Marine/LBTF for safety	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)		
54	X-Band Nav Radar	FURUNO FR-2125	9410 MHz +- 30 MHz	15.5 watts	Mean	0.003	11228.8	Pulse	72M5P0N	9410 MHz	Self navigation displays	Equipment is approved for operations by FCC/FAA/NTIA	45112-4-201	SSR/S & /X VERIF TEST (LM)	45114-7-200	RADAR DEMONSTRATION (BT) (LM)
55	VHF Marine, DSC	L-3 DSC500	156.000 to 157.425 MHz	50 watts	Mean	0.0005	56.101	FM	16K0G3E	156.95 MHz	Digital Select Call-in to Mobile Marine/LBTF to pass ships position	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-201	VHF MARINE RADIO COMM TEST (LM)	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)
56	VHF Marine, DSC	L-3 DSC500	156.000 to 157.425 MHz	50 watts	Mean	0.0005	56.101	FM	16K0F1D	156.95 MHz	Communication w/mobile marine asset for safety Navigation	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-201	VHF MARINE RADIO COMM TEST (LM)	44110-5-200	GMDSS CONSOLE DISTRESS SYS TST (LM)
57	VHF High Band P-25	M/A-COM M7100;	136 To 174 MHz	50 Watts	Mean	.00015	56.101	FM	11K0F3E	139.975 MHz	P-25 Communications w/mobile marine or shore unit	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-200	VHF LAW ENFORCEMENT COMM TST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
58	VHF High Band P-25	M/A-COM M7100;	136 To 174 MHz	50 Watts	Mean	.00015	56.101	FM	16K0F3E	139.975 MHz	P-25 Communications w/mobile marine or shore unit	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-200	VHF LAW ENFORCEMENT COMM TST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
59	VHF High Band P-25	M/A-COM M7100;	136 To 174 MHz	50 Watts	Mean	.00015	56.101	FM	8K40F1E	139.975 MHz	P-25 Communications w/mobile marine or shore unit	Equipment is approved for operations by FCC/FAA/NTIA	44019-5-200	VHF LAW ENFORCEMENT COMM TST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
60	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	8K50F1D	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
61	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	8K50F1E	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
62	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	8K50F3E	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
63	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	10K0F2D	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
64	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
65	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	395.875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
66	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	395.675 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		

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Line Item	Function	Manufacturer / Model Number	Action	Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
67	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	395.500 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
68	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	395.300 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
69	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	395.100 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
70	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.9125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
71	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.8357 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
72	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.7375 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
73	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.5125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
74	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.4625 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
75	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	15K0F2D	389.3875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
76	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
77	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	395.875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
78	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	395.675 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
79	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	395.500 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
80	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	395.300 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
81	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	395.100 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
82	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.9125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
83	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.8357 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
84	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.7375 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
85	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.5125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
86	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.4625 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
87	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	16K0F3E	389.3875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
88	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	397.125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
89	Wireless Voice above deck Antenna	M/A-COMM Hydra		380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	395.875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		

Detailed Technical Information

Line Item	Function	Manufacturer / Model Number	Action Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
90	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	395.675 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
91	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	395.500 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
92	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	395.300 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
93	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	395.100 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
94	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.9125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
95	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.8357 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
96	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.7375 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
97	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.5125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
98	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.4625 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
99	Wireless Voice above deck Antenna	M/A-COMM Hydra	380-400 403-420	500 mw	Mean	.0001	3.155	FM FSK, 2-level	20K0F1E	389.3875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
100	BAE Gun	Muzzle velocity radar MVS-470	9.775 GHz	400 mWatts	mean	0.0002	100.475		10K0N0N	9775 MHz	Bullet trajectory tracking to onboard receiver	Equipment is approved for operations by FCC/FAA/NTIA	71011-4-200	MK-3 57MM GUN FUNCTIONAL		
101	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	10K4F3E	140.475 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
102	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	10K4F3E	140.725 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
103	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	10K4F3E	141.6125 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
104	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	10K4F3E	150.700 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
105	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	10K4F3E	150.725 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
106	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	21K2F1D	140.475 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
107	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	21K2F1D	140.725 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
108	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	21K2F1D	141.6125 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
109	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	21K2F1D	150.700 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
110	VHF Military Tactical	Rockwell RT1794;	118 to 174 MHz	50 Watts	mean	.0002	56.1041	FM	21K2F1D	150.725 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
111	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	10K4F3E	275.100 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
112	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	406.6250 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
113	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	406.6250 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
114	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	406.825 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
115	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	407.225 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
116	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	407.625 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
117	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	410.125 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
118	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	410.287 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)

Detailed Technical Information

Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2

Line Item	Function	Manufacturer / Model Number	Action Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
119	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	410..375 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
120	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	411.8125 MHx	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
121	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	415.625 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
122	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	415.825 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
123	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	416.225 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
124	UHF Military Tactical	Rockwell RT1794;	225-400 MHz	40 Watts	mean	.0002	44.881	FM	21K2F1D	416.825 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
125	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	10K4F3E	34.01 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
126	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	21K2F1D	34.01 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
127	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	21K2F1D	41.21 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
128	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	21K2F1D	41.73 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
129	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	21K2F1D	41.75 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
130	VHF Military Tactical	Rockwell RT1794;	30-88 MHz	60 watts	mean	.0002	53.475	FM	21K2F1D	41.83 MHz	Communications w/mobile marine or mobile shore (plain/covered)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
131	VHF Military Tactical	Rockwell RT1794; AM	118 to 156 Mhz	22 Watts	mean	.0002	24.684	AM	8K02A3E	138.475 MHz	Communications w/military air or civilian air	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
132	VHF Military Tactical	Rockwell RT1794; AM	225 to 400 MHz	16 Watts	mean	.0002	17.952	AM	22K0A1E	242.650 MHz	Communications w/military air or civilian air	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
133	VHF Military Tactical	Rockwell RT1794; AM	225 to 400 MHz	16 Watts	mean	.0002	17.952	AM	22K0A1E	275.100 MHz	Communications w/military air or civilian air	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
134	VHF Military Tactical	Rockwell RT1794; AM	225 to 400 MHz	16 Watts	mean	.0002	17.952	AM	22K0A1E	406.6250 MHz	Communications w/military air or civilian air	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
135	VHF Military Tactical	Rockwell RT1794; AM	225 to 400 MHz	16 Watts	mean	.0002	17.952	AM	22K0A1E	406.8250 MHz	Communications w/military air or civilian air	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-204	VHF/UHF LOS COMM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
136	UHF MilSatcom 2 (25 kHz Non-DAMA)	Rockwell RT1794; AM	291 to 318.3 MHz	100 Watts	mean	.0002	112.202	FM / PM	25K0F1D	303.25 MHz	Sat voice communication to mobile unit (SID required 30 days prior)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-202	MILSATCOM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
137	UHF MilSatcom 2 (25 kHz Non-DAMA)	Rockwell RT1794; AM	291 to 318.3 MHz	100 Watts	mean	.0002	112.202	FM / PM	7K20G1D	303.25 MHz	Sat voice communication to mobile unit (SID required 30 days prior)	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-202	MILSATCOM TEST (LM)	44011-7-200	COMM DEMONSTRATION (BT)(LM)
138	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	2K7J3E	4.150 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
139	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	4.7314 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
140	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	6.2000MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
141	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	6.7104 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
142	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	8.1964 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
143	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	8.2984 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
144	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	9.0374 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
145	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	11.1974 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
146	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	12.2434 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
147	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	12.3544 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
148	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	16.3764 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
149	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	16.5294 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
150	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	18.8164 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
151	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	22.0074 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)
152	HF / HF ALE - Voice	ROHDE & SCHWARZ GX2900	2-30 MHz	1 KWatts	Mean	.0001	660.693	AM	3K10H3E	22.1604 MHz	Tactical voice/data to marine mobile, shore mobile, shore	Equipment is approved for operations by FCC/FAA/NTIA	44110-5-201	HF COMMUNICATIONS TEST (LM)	44011-7-200	COMMUNICATIONS DEM (AT) (LM)

**Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2**

Page 7 of 11

**Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2**

Page 8 of 11

Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2

Page 9 of 11

**Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2**

Page 10 of 11

Detailed Technical Information

Northrop Grumman Ship Systems, Inc.
Request for Special Temporary Authority
Exhibit 2

Line Item	Function	Manufacturer / Model Number	Action Frequency	Output Power	Mean / Peak	Frequency Tolerance (+/-)	ERP (Watts)	Modulating Signal	1494 Emission Designator	Requested Freq	Test Companion Element	Companion Approvals	T.P. Number	Test Description	T.P. Number	Test Description
286	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	11K0F3E	389.7375 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
287	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	15K6F1D	389.5125 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
288	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	8K4F1D	389.4625 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
289	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	15K6F1E	389.3875 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
290	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	7K8F1D	395.300 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		
291	Low Power VHF Hydra Handheld	M/A Comm P7100 Handheld	378 - 430 MHz	100 MW 20MW	Mean	0.00015	93.3MW	FM	8K4F1E	395.100 MHz	Wireless Internal Communications Net	Equipment is approved for operations by FCC/FAA/NTIA	44018-5-201	INTERIOR COMMUNICATIONS		