APPENDIX C

SUMMARY OF RADIO FREQUENCY COMMUNICATIONS SPECTRUM

RADIO FREQUENCY SPECTRUM **MICROWAVE OFFICIAL OFFICIAL** AND RADAR ITU/GENEVA JCS **USAGE BAND** BAND **MILITARY** UNITED **DESIGNATION** DESIGNATION APPLICATION STATES 100,000 W-BAND Μ BAND NO.11 56.000-100.000 60.000-100.000 EHF 70.000 MILSTAR EHF 30,000-300,000 COMMUNICATIONS V-BAND 50,000 46,000-56,000 40,000-60,000 40,000 (40 GHz) Q-BAND MILLIMETRIC 36,000-46,000 30.000 K_a 33,000-36,000 20,000-40,000 20,000 K-BAND 10,900-36,000 SHF SUBMARINE K_u 15,25**0**-17,25**0** SATCOM DEMO 10,000-20,000 INTELSAT 10,000 (10 GHz) BAND NO.10 8,000-40,000 SHF 3,000-30,000 X-BAND 7,000 6,200-10,900 Х SHF DSCS 6,000-8,000 6,000 C-BAND 5.200 G 5,000 3,900 - 6,200 4,000-6,000 4,000 CENTIMETRIC S-BAND 3,000-4,000 3,000 1,550-3,900 2,000-3,000 2,000 D 1,**000-**2,**000** 1,000 (1 GHz) JTIDS/IFF/GPS L-BAND BAND NO.9 390-1,550 UHF 500-1,000 300-3,000 700 MHz 500 MHz SUBMARINE SATCOM (SSIXS, OTCIXS, BGIXS) DECIMETRIC P-BAND 300 MHz 250-500 225-390 250 MHz BRIDGE TO BRIDGE RADIO G-BAND 150-225 BAND NO.8 150 MHz I-BAND 100-150 VHF SOF FORCE COMMS 30-300 0-250 100 MHz METRIC SHORE & SHIP BAND NO.7 50 MHz TRANSMIT & RECEIVE 3-30 MHz HE 3-30 BAND NO.6 3**0** MHz 3**00**-3,**000** kHz MF BAND NO.5 30-300 kHz 30 kHz FIXED VLF/LF 3-30 kHz BAND NO.4 SHORE BCST 3 kHz 300-3,000 Hz BAND NO.3

Figure C-1. Summary of Radio Frequency Communications Spectrum

30-300 Hz

BAND NO.2

ELF

ELF SHORE BCST

300 Hz

30 Hz