

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application (“Application”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant a two year experimental license to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant Form 442. *The instant application seeks a two year license for virtually the same¹ frequencies and facilities that were granted under Special Temporary Authority (“STA”) pursuant to File No. 0060-EX-ST-2006. BAE Systems also hereby confirms that it is willing to accept the same conditions that were imposed in the grant under File No. 0060-EX-ST-2006, namely:*

BAE Systems consents to the following Special Condition #1:

For the band 174-228.6 MHz - Only the frequencies designated in Exhibit 3 of the application are approved, namely:

174.600, 176.350, 178.100, 179.875, 181.675, 183.500, 185.325, 187.175, 189.050, 190.950, 192.850, 194.775, 196.725, 198.700, 200.700, 202.700, 204.725, 206.775, 208.825, 210.925, 213.025, 215.175, 217.325, 219.500, 221.675, 223.900, 226.150, 228.400 MHz

BAE Systems consents to the following Special Condition #2:

For the band 228.8-328.6 MHz - All frequencies as stated in Exhibit 3 are approved except for 244.875 MHz and 281.475 MHz which are denied, which constitutes approval of the following:

230.675, 233.000, 235.325, 237.675, 240.050, 242.450, 247.325, 249.800, 252.300, 253.900, 254.825, 257.175, 257.375, 259.950, 262.550, 265.175, 267.825, 270.500, 271.175, 273.200, 275.925, 278.700, 284.300, 287.125, 290.000, 292.900, 295.825, 298.800, 301.775, 304.800, 307.850, 310.618, 310.925, 314.025, 317.175, 320.350, 323.550, 326.775 MHz

BAE Systems consents to the following Special Condition #3:

For the band 335.4-454 MHz all frequencies as stated in Exhibit 3 are approved except for 350.350 MHz, 353.850 MHz, 380.250 MHz, and 387 MHz which are denied, which constitutes approval of the following:

336.675, 340.050, 343.450, 346.618, 346.875, 357.400, 360.975, 364.575, 368.225, 371.900, 375.625, 379.375, 383.175, 387.175, 390.875, 391.175, 394.775, 398.725, 402.725, 406.750, 410.825, 414.925, 419.075, 423.275, 427.500, 431.775, 436.100, 440.450, 444.850, 449.300, 453.800 MHz

¹ The only additional item included in the attached Form 442 that was not included in the grant issued by the Commission under File No. 0060-EX-ST-2006 is an extra emission designator – 25K0F2D – added to the requested frequency bands 228.8-328.6 MHz and 335.4-454 MHz. By a “Notification Pursuant to 47 CFR § 5.77” submitted by BAE Systems on May 9, 2006, BAE Systems notified the Commission that it would operate the experiment using this additional emissions designator on these two bands.

BAE Systems consents to the following Special Condition #4:

Frequencies 129.550 and 130.825 must be coordinated with ARINC.

BAE Systems consents to the following Special Condition #5:

For the band 940.4-1200 MHz, all frequencies as stated in Exhibit 3 are approved except for 1082.375 MHz which is denied, which constitutes approval of the following:

942.275, 961.125, 980.350, 999.950, 1019.950, 1040.350, 1061.150, 1104.025, 1126.125, 1148.625, 1171.600, 1195.050 MHz

2. Purpose of the Operation

BAE Systems Information & Electronic Warfare Systems (IEWS), a business unit of the Information and Electronic Systems Integration Sector (IESI) within BAE Systems Inc., will conduct the testing specified in this Application. IEWS is a major producer of electronic warfare systems, protection systems, and tactical surveillance and intelligence systems for all branches of the armed forces. IEWS' lines of business include Electronic Warfare/Electronic Protection, Electronic Warfare/Information Warfare, Integrated Defense Solutions, and Mission Electronics with products and services spanning the whole electromagnetic spectrum.

The testing at the Merrimack Antenna Test Range is a critical part of the manufacture and delivery of military systems provided to the Armed Forces in support of Homeland Security as well as war efforts. As a general matter, the purposes of the facilities for which consent is requested herein are to determine the requirement for calibration of the arrays installed on the candidate platform, generate calibration parameters if required and verify the accuracy of the calibration parameters by conducting carefully controlled flight tests. BAE Systems notes that the contract information related to this experiment has been submitted to the Commission's Security Office, under applicable classified submission procedures, under a prior submission – under File No. 0593-EX-ST-2005. Additional details regarding the nature of the transmissions for which authority is requested are specified at Exhibits 3 and 4, as follows:

- Antenna Registration #1 of this Application specifies technical parameters for proposed ground-based transmissions to be initiated from BAE Systems' Merrimack Antenna Test Range. These ground-based transmissions are comprised of:

- “Ground-Based CW Transmissions”;
 - “Ground-Based FM Data Transmissions”; and
 - “Ground-Based Data-Link (Uplink) Transmissions”.

See Exhibit 3 for a more detailed explanation of these ground-based transmissions.

- Antenna Registration #2 of this Application specifies technical parameters for proposed air-based transmissions to be initiated from target aircraft (while the aircraft is within the FAA-approved Flight Operations Area) and directed to a ground-based receiver located at BAE Systems' Merrimack Antenna Test Range. See Exhibit 4 for more details.

3. Prevention of Interference

BAE Systems' Tracy Johnson will be personally conducting the test and will be available by wireless telephone at (603) 689-8630. Mr. Johnson will act as a "stop buzzer" if any issues regarding interference arise during testing.