

**STA REQUEST
AND DESCRIPTION OF OPERATIONS**

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 the same frequencies and facilities that were granted under Special Temporary Authority ("STA") pursuant to File No. 0593-EX-ST-2005. BAE Systems also hereby confirms that it is willing to accept the same conditions that were imposed in the grant under File 0593-EX-ST-2005, namely:***

BAE Systems consents to the following Special Condition #1:

For the band 108.5-118.4 MHz - Only the following frequencies are approved:
109.375 MHz, 111.575 MHz, 113.825 MHz, 114.950MHz, 116.100 MHz, &117.275 MHz

BAE Systems consents to the following Special Condition #2:

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 #3:

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 #4:

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

BAE Systems consents to the following Special Condition #5:

For the band 120.1-129.2 MHz, all frequencies as stated in Exhibit 3 are approved except for 128.250 MHz which is denied, which constitutes approval of the following:

120.825, 122.025, 123.250, 124.475, 125.725, 126.975 MHz

BAE Systems consents to the following Special Condition #6:

For the band 129.5-135.2 MHz, all frequencies as stated in Exhibit 3 are approved except for 132.150 MHz which is denied. Frequencies 129.550 MHz and 130.825 MHz must be coordinated with ARINC. This constitutes approval of the following:

129.550 (coordinate with ARINC), 130.825 (coordinate with ARINC), 133.475, 134.800 MHz

BAE Systems consents to the following Special Condition #7:

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 STA Request. 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 Litchfield 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. More specifically, the testing under the requested license is for the purpose of implementing the following contracts:

- A Classified Contract (the "Initial Classified Contract"), with respect to which BAE Systems previously submitted to the Commission's Security Office, under applicable classified submission procedures, the relevant program name, contract number and point of contact for the program, in connection with the underlying STA for File No. 0593-EX-ST-2005.
- By e-mail dated December 8, 2005, BAE Systems notified the Commission that certain of the Facilities granted under File No. 0593-EX-ST-2005 would be operated with respect to an additional Classified Contract ("First Additional Classified Contract"). Accordingly, for the

purpose of this Application, the First Additional Classified Contract should be associated with the instant filing. (Please note that BAE Systems separately submitted to the Commission's Security Office, under applicable classified submission procedures, the contract number, relevant agency and point of contact for the First Additional Contract - See classified submission of BAE Systems associated with File No. 0705-EX-ST-2005).

- By e-mail dated February 2, 2006, BAE Systems notified the Commission that certain of the Facilities granted under File No. 0593-EX-ST-2005 would be operated with respect to an additional Classified Contract ("Second Additional Classified Contract") with a Contract Number of: F33657-03-G-3027. Accordingly, for the purpose of this Application, the Second Additional Classified Contract should be associated with the instant filing. (Please note that BAE Systems separately submitted to the Commission's Security Office, under applicable classified submission procedures, the relevant agency and point of contact for the Second Additional Contract - See classified submission of BAE Systems associated with File No. 0017-EX-ST-2006).
- By e-mail dated February 16, 2006, BAE Systems notified the Commission that certain of the Facilities granted under File No. 0593-EX-ST-2005 would be operated with respect to an additional Classified Contract ("Third Additional Classified Contract"). Accordingly, for the purpose of this Application, the Third Additional Classified Contract should be associated with the instant filing. (Please note that BAE Systems separately submitted to the Commission's Security Office, under applicable classified submission procedures, the contract number, relevant agency and point of contact for the Third Additional Contract - See classified submission of BAE Systems associated with File No. 0081-EX-ST-2006).
- By e-mail dated February 23, 2006, BAE Systems notified the Commission that certain of the Facilities granted under File No. 0593-EX-ST-2005 would be operated with respect to an additional contract with the following information:
Customer Name: MegaWave Corporation (Prime Contractor) [Gov't Sponsor-USSOCOM]
Customer Contact Information: Ms. Glynda Benham, 508-869-2700, X12
Contract Number: 2083 [Prime Contract No. = H92222-05-C-0031]

Accordingly, for the purpose of this Application, the Third Additional Classified Contract should be associated with the instant filing.

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' Litchfield 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' Litchfield Antenna Test Range. See Exhibit 4 for more details.

3. Prevention of Interference

BAE Systems' Richard C. Ball will be personally conducting the test and will be available by wireless telephone at (603) 318-6913. Mr. Ball will act as a "stop buzzer" if any issues regarding interference arise during testing.