

REQUEST FOR LIMITED ONE-MONTH STA

1. Introduction

By the instant application (“STA Request”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant – on an expedited basis - special temporary authority (“STA”) to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant STA Request. STA is requested for an *extremely limited timeframe* – namely – for only *one month from March 26-April 27, 2007*.

2. Purpose and Nature of the Operation

BAE Systems Networked Enabled Solutions (NES), a business unit within the Electronics and Integrated Solutions operating group within BAE Systems Inc., will conduct the testing specified in this STA Request. NES is a leader in developing, testing and building technical systems for the U.S. Department of Defense and the United States’ allies in avionics, navigation, and military communications. NES’ lines of business include C3I systems and communication systems integration, guidance and navigation, electronic identification, and reconnaissance systems.

The requested testing relates to BAE Systems’ development of imaging system that will involve the one-way transmission of data from an in-flight aircraft – transmitting solely within an area above the Gulf of Mexico as defined below and at Exhibit 2. The aircraft will take-off and land from the Venice Municipal Airport in Venice, Florida, and will transmit pursuant to the requested STA within the “In Flight Transmission Area” described in the next section and at Exhibit 2.

At this time, there is currently no government contract information specifically associated with the requested frequency request. If and when the facilities are to be used to implement the requirements of a specific government contract, BAE Systems will notify the Commission, or seek any necessary approvals, at such time.

3. DESCRIPTION OF IN-FLIGHT TRANSMISSION AREA

Centerpoint:

26-48-45 N.Lat.; 82-17-50 W.Long. (NAD 83)

Radius Around Centerpoint:

52.6 km

Corner Coordinates of In-Flight Transmissions Area:

Upper Left Corner: 26-57-00 N.Lat.; 082-42-00 W.Long. (NAD 83)

Upper Right Corner: 27-03-29 N.Lat.; 082-19-09 W.Long. (NAD 83)

Lower Left Corner: 26-31-20 N.Lat.; 082-15-20 W.Long. (NAD 83)

Lower Right Corner: 26 33 14 N.Lat.; 081-54-35 W.Long. (NAD 83)

Altitude:

Between 762-3048 meters (2,500-10,000 feet)

The flight paths required for these tests will occur at a variety of altitudes between 762-3048 meters, but in no event will the altitude of the aircraft exceed 3048 meters above mean sea level

Graphic Depiction of In-Flight Transmissions Area:

Please See Exhibit 2

Nearest Aircraft Landing Area:

The nearest aircraft landing area with relative to the Centerpoint is the Coral Creek, FL airport, which is approximately 5 km from the Centerpoint. As explained above, the aircraft will take-off and land from the Venice Municipal Airport in Venice, Florida, in careful coordination with the appropriate Venice Municipal Airport personnel

4. Limited Nature of STA Request

This STA Request is extremely limited in nature, as evidenced by the following, and will have no negative impact on the public or co-channel licensees, as demonstrated below. As such, expedited approval of this STA Request is in the public interest, convenience and necessity:

- STA is required for only a one month period, from March 26-April 27, 2007.
- BAE Systems will require only one week of actual transmission time during the one month STA period. At this time, due to logistical issues relating to the leasing of the aircraft, the actual week of operations has not been identified. Accordingly, it is necessary that authority for one month be requested at this time.

- By e-mail dated February 27, 2007, the Federal Aviation Administration (FAA) has prior-coordinated this STA Request and has confirmed it has no objection to this STA Request. In addition, the FAA has preliminarily concluded that the Navy and Air Force should have no objection to the STA Request. See attached e-mail from FAA's Jim Burchfield. The Coordination Number is NG-07-230.
- Transmission is anticipated during the hours of 0700-2300 (EDT).
- The requested operations have been coordinated with the appropriate Venice Municipal Airport personnel.
- Stop Buzzer – BAE Systems' John Santillo will be available by wireless telephone at (201) 452-1010 and will act as a "stop buzzer" if any issues regarding interference arise during testing.

5. Transmitting Equipment and Modulation Information

The following information is provided with respect to the transmitting equipment to be involved in the experiment.

Manufacturer	Model	Quantity	Experimental?
Harris	AN/PRC-150C	2	No
Raytheon	AN/PSC-5D	2	No
ITT	AN/VRC-90F	6	No
BAE Systems	AN/VRC-99(B)	2	No
BAE Systems	C4ISR	4	Yes

6. Antennas – Directionality/Orientation

3dB BW E (Vertical)	3dB BW H (Horizontal)
14°	14°

**FAA PRIOR COORDINATION OF STA REQUEST
CONFIRMATION OF NO OBJECTION (NG-07-230)**

Rummel, Jeffrey

From: Matthew.Burchfield@faa.gov
Sent: Tuesday, February 27, 2007 2:13 PM
To: Rummel, Jeffrey
Subject: Re: BAE Systems - Request for Expedited FAA Prior Coordination of FCC STA Experimental Request

Attachments: FLA2.pdf



FLA2.pdf (508 KB)

Mr Rummel,

The FAA's Eastern Service Area Spectrum Support Center has no problem with BAE Systems using the frequencies requested in the STA attachment to this e-mail. The FAA has no frequencies in the band G14.35-15.35 within 100 NM of the center coordinates of your clients test area. The military (Navy and Air Force) have five frequencies within this band that they use at the Mid-Atlantic Electronic Warfare Range to simulate surface to air missile and anti aircraft artillery radars. This facility is located at Avon Park, Florida and is approximately 62-71NM from your clients location and should not cause them any problems and I don't anticipate BAE Systems causing them any problems.

Your coordination number is NG-07-230.

Should you are your client have any questions please call me at 404-305-6672.

thank you

Jim b.

"Rummel, Jeffrey"
<Rummel.Jeffrey@A
RENTFOX.COM>

02/27/2007 12:35
PM

Matthew Burchfield/ASO/FAA@FAA

To

cc

"D'Ancona, Philip \ (US SSA\)"
<philip.dancona@baesystems.com>,
"Santillo, John E. \ (US SSA\)"
<john.santillo@baesystems.com>

Subject

BAE Systems - Request for Expedited
FAA Prior Coordination of FCC STA
Experimental Request

Mr. Burchfield:

BAE Systems, my client, intends to file with the FCC - either today or tomorrow - a Request for an experimental Special Temporary Authority to transmit on certain facilities in the microwave link band in connection with an in-flight experiment to be conducted off the Florida Coast, above the Gulf of Mexico.

In order to assist in the company's efforts to obtain expedited FCC grant by the requested March 26, 2007, date, I am transmitting to you the draft of BAE Systems' application that is to be filed with the FCC. On behalf of BAE Systems, I would greatly appreciate it if you could review the application, and confirm FAA's coordination of the application prior to the company's filing the STA Request with the FCC. As explained in the application, this STA Request is extremely limited in nature, in that:

- STA is required for only a one month period, from March 26-April 27, 2007.
- BAE Systems will require only one week of actual transmission time during the one month STA period. At this time, due to logistical issues relating to the leasing of the aircraft, the actual week of operations has not been identified. Accordingly, it is necessary that authority for one month be requested at this time.
- Transmission is anticipated during the hours of 0700-2300 (EDT).
- The requested operations have been coordinated with the appropriate Venice Municipal Airport personnel.

If you require any additional technical information to complete your review, please do not hesitate to contact me directly.

Best regards,

Jeffrey Rummel
Attorney for BAE Systems

<<FLA2.pdf>>

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