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BAE SYSTEMS

September 21, 2011

FILED ELECTRONICALLY

Federal Communications Commission
Office of Engineering and Technology
Experimental Licensing Branch
Washington, DC. 20554

**Re: Request for Expedited Processing and Grant for Very Limited 24 day STA from
October 11, 2011 through November 3, 2011 at Ft. Benning, GA**

BAE Systems Unmanned Aircraft Programs Inc.

**Application For Special Temporary Authority
File No. 0591-EX-ST-2011**

Dear Sirs:

On behalf of BAE Systems Unmanned Aircraft Programs Inc. ("BAE Systems"), this letter is to request expedited processing of the above-referenced application ("STA Request") wherein BAE Systems requested that the Commission grant special temporary authority ("STA") to permit BAE Systems to operate the facilities specified in the STA Request for a 24 day period, from October 11-November 3, 2011, at Ft. Benning, Georgia.

In support of this Request, the following is shown:

- **Demonstration is at the Request of the United States Army to Support AEWA Experiments**

As explained at Exhibit 1, the testing conducted by BAE Systems 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. Specifically, this experiment will involve the demonstration of BAE Systems' Silver Fox unmanned aircraft at Ft. Benning. BAE Systems has been invited by the United States Army to conduct these demonstrations at Ft. Benning as part of the Army's Army Expeditionary Warrior Experiments (AEWE). Grant of this STA is critical because upon grant the company would be the only battalion level asset providing Intelligence, Surveillance and Reconnaissance (ISR) functions during the entire AEWE program.

The US Army expressly supports this STA Request. These operations are fully supported by Ft. Benning personnel conducting the AEWE experiments. Attached is an e-mail from Mr. Gary Daniel, Maneuver Center of Excellence and Maneuver Battle Lab Project Lead for AEWE Spiral G, confirming the U.S Army's support of this demonstration during the requested timeframe. Questions related to the AEWE experiment, and for validating the information requested in this Application can be directed to the following POC:

Mr. Gary Daniel; AEWE Program Manager
Maneuver Battle Lab, Maneuver Center of Excellence, Ft. Benning, GA
(706) 545-5992; (706) 575-7210; gary.daniel@us.army.mil

- If Required, FAA Coordination Will Be Obtained and Provided to the Commission:
BAE Systems will promptly contact the FAA to determine whether FAA coordination is required in this case, and if it is required BAE Systems will obtain FAA coordination for this experiment and will provide proof of coordination upon receipt from the FAA.
- Very Limited Frequency Requirement Within 1370-1390 MHz
BAE Systems notes that it does not require actual operation over the entire 1370-1390 MHz band. Rather, BAE Systems' minimum frequency requirement for this experiment is a single operating frequency within 1370-1390 MHz band with an emissions of 300KF1D. In other words, BAE Systems requires only a single 300 kHz block within 1370-1390 MHz, comprised of a center frequency plus 150 kHz below and above the center frequency, to allow for a 40 decibel drop in the radio signal from the center frequency to ensure non-interference.

BAE Systems is well aware that requests to expedite processing and grant of experimental applications such as this STA Request place additional requirements on the Commission's already strained resources. For that reason, BAE Systems submits expedite requests only in appropriate circumstances and where no other alternative exists. In this case, BAE Systems first attempted to obtain permission to operate the requested facilities directly from Ft. Benning under a military assignment, and such efforts included working directly with AFRL to assist in this process. Despite these continued and best efforts to avoid burdening the Commission's resources, it was only until the past few days that BAE Systems was finally advised that an FCC filing would be necessary in order to meet the timetable for the US Army's AEWE experiment. Because participating in this experiment is essential to the success of the Silver Fox program, and in light of BAE Systems' prior attempts to resolve this issue, BAE Systems respectfully requests that the Commission approve expedited review and testing of the STA Request.

For the reasons set forth above, BAE Systems has demonstrated the need for expedited processing in this particular case. BAE Systems greatly appreciates the Commission's attention to this matter.

Should any questions arise with respect to the instant STA Request, please do not hesitate to contact undersigned.

Sincerely,



Keith A. Dock, Site Manager
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E-MAIL FROM AEWE PROGRAM MGR SUPPORTING GRANT OF THIS STA REQUEST

From: Daniel, Gary CTR US USA
To: Trout, Christopher (US SSA)
Cc: Bailey, Jason G CTR US USA TRADOC; Lubin, Henry J CTV USA TRADOC
Subject: RE: AEWE Spiral G Project Lead concurrence for BAE Systems to submit a Silver Fox Unmanned Aircraft frequency request for FCC approval (UNCLASSIFIED)
Date: Wednesday, September 21, 2011 7:23:52 AM

Classification: UNCLASSIFIED
Caveats: NONE

Christopher Trout,

My name is Gary Daniel and I am the Maneuver Center of Excellence (MCoE), Maneuver Battle Lab's (MBL) Project Lead for the Army Expeditionary Warrior Experiment (AEWE) Spiral G. It is my understanding that BAE Systems intends to file with the Federal Communications Commission (FCC) an application for Special Temporary Authority (STA) to permit BAE Systems to demonstrate its Silver Fox unmanned aircraft at Fort Benning, Georgia from October 11, 2011 through November 3, 2011. This email message is to express my organization's support of this filing and for FCC approval of the STA Request by October 11, 2011 in order to support my experiment.

It is my understanding that BAE Systems is seeking FCC consent for operating authority within 1370-1390 MHz at 1W ERP, for fixed ground-based transmissions, as well as for airborne transmissions within a 10km radius around a center point located at Fort Benning. BAE Systems has been invited by the United States Army to conduct these demonstrations at Fort Benning as part of the Army Expeditionary Warrior Experiments (AEWE) Spiral G. Assuming that all other necessary FCC processing determines that these operations are acceptable, these actions to get the Silver Fox unmanned aircraft into my experiment is supported by my leadership at Fort Benning. The Silver Fox is an important technology in order for us to examine a Unmanned Aerial System (UAS) at the Battalion level to support our AEWE Spiral G objectives.

/r
Gary Daniel
AEWE Program Manager
Maneuver Battle Lab
SAIC
Ft. Benning, GA
706-545-5992
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Classification: UNCLASSIFIED
Caveats: NONE