

**REQUEST FOR VERY LIMITED 1 DAY STA
NO LATER THAN THURSDAY APRIL 12, 2012
TO CONDUCT A FIVE HOUR TEST TO SUPPORT US ARMY REQUIREMENTS**

Exhibit 1

1. Introduction

By the instant application (“Application”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant a very limited one day Special Temporary Authority (“STA”) no later than Thursday, April 12, 2012, to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant application to conduct a five hour test to support US Army requirements.

2. Purpose of the Operation

The testing at the Merrimack Antenna Test Facilities 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.

This approval is required to characterize the system’s maximum capability in support of a government scheduled flight test to be conducted on April 17, 2012. The test to be conducted under this STA is required to characterize and determine the system’s proper optimized operating point as the equipment has matured in design and performance. The test is a P1db compression gain test. Previous testing addressed only the nominal RF output case, not taking into consideration the 4dB back-off reserved by the radio waveform. During calibration/performance characterizations such as this, BAE Systems uses a highly controllable surrogate waveform generator which allows for tight RF output control.

BAE has acted as quickly as possible to confirm this licensing requirement and prepare and submit this request for Commission authority. Due to performance shortcomings in a February 2012 unit, the US Army elected not to fly the company’s device, but instead, requested that BAE Systems build up another unit to fly on a subsequent test flight scheduled in mid-April. This was an unexpected event which is causing fabrication and test schedule pressures. Testing under this STA must be completed by April 12, 2012, as the US Army is expected to take possession of the device for its own testing purposes on April 17, 2012. A separate Request for Expedited Processing has been submitted along with this Application.

The need to operate the requested Facilities is very limited in scope and duration, as follows:

- *Operation is required on only one day – no later than April 12, 2012*
- *Operation is required for only a five (5) hour period*
- *Operation is required under this STA on only one frequency, 15 GHz*
- *Each ground-based transmission is expected to last no more than 10 seconds*
- *The duration of transmissions under STA is expected to total no more than 15 minutes*

The POCs for this effort are as follows:

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