

Exhibit 1

1. Introduction

By the instant application (“Application”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant special temporary authority (“STA”) to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant application. STA is requested for a period of six (6) months.

2. Purpose of the Operation

The testing conducted by BAE Systems is a critical part of the manufacturing and delivery of military systems provided to the Armed Forces in support of their efforts.

In support of both Internal Research and Development as well as the contract listed below, the purpose of these tests is to measured gain over field of view of an antenna that is a critical part of the system delivered to the customer. Testing will be done using program developed antennas and range supplied RF measurement equipment. This testing is required to verify total system performance.

3. Contract Information for MAG Frequencies

The contract information associated with the following MAG Frequencies is as follows (Agency/Customer: US Air Force; Contract Number: FA8650-17-C-8578; Contract POC: James Blackston (937) 656-9900 - James.blackston@us.af.mil):

230-235 MHz
240 MHz
245-250 MHz
255.5-260 MHz
265 MHz
270 MHz
275 MHz
280 MHz
285 MHz
290-305 MHz
310-325 MHz
335.4 MHz
340.627852 MHz
344.338591 MHz
349.904698 MHz
355.470805 MHz
359.181544 MHz
364.747651 MHz
370.313758 MHz
375.879866 MHz
379.590604 MHz
385.156711 MHz
390.722819 MHz
394.433557 MHz

4. Operation to Support IR&D for Non-MAG Frequencies

BAE Systems requests that the STA contain a Special Condition specifically confirming that the following non-MAG frequencies are permitted to support Internal Research and Development activities:

100 MHz
109.5 MHz
115 MHz
119.725 MHz
124.575 MHz
130 MHz
134.1 MHz
138 MHz
145-150 MHz
155 MHz
160 MHz
165-170 MHz
175-225 MHz
330.05 MHz
400-405 MHz
410-450 MHz
454.4 MHz
460-470 MHz
476.95 MHz
481.725 MHz
486.525 MHz
491.4 MHz
496.3 MHz
500 MHz

5. Waiver of Station ID Requirements

Waiver of the Station ID rules set forth at Section 5.115 is respectfully requested.

6. Other Issues

A. Transmit Directionality

The experiment requires transmission from this location.

Station	North Latitude	West Longitude	Reference	Transmit Direction
1	42-48-18	71-25-34	LIT1C Range	34 degree Line of Bearing (LOB)

B. Antenna Data

For the convenience of the Commission, the following chart defines certain specifications relating to the directional antennas that are to be used in the experiment:

Mfg.	Model Number	Frequency Range	Gain	BW		
Sunol Sciences	JB6	30 – 6000 MHz	< 1.1 dBi 100-150 MHz, < 4.4 dBi 150-200 MHz, < 6.4 dBi 200-500 MHz	Freq	E-Plane	H-Plane
				<u>MHz</u>	<u>deg</u>	<u>deg</u>
				100	90	360
				150	80	180
				200	56	100
				250	60	120
				500	60	100

C. RF Source

An HP 8341B Synthesized Sweeper (10 MHz – 20 GHz), or equivalent will be used as the RF Source for these operations.

D. Additional Signal Amplification

Additional signal amplification is necessary to achieve a useful signal to noise ratio for the received signal. The output power of the system will be measured and verified to meet the radiated output power limits set forth in the license.

Mfg.	Model Number	Frequency Range	Gain
Mini-Circuits	TVA-11-422A+ (or equivalent)	10-4200 MHz	+40 dB

E. Prevention of Interference

BAE Systems hereby advises the Commission that the tests to be conducted under the requested Commission authorization are to be conducted near the center of BAE Systems' Litchfield, New Hampshire facilities. Such location will result in the separation of the test facilities from other existing transmit or receive facilities.

F. Stop Buzzers

Primary: David Jillson - (603) 484-1024

Alternate: BAE Systems Emergency Services Center - (603) 885-3842