

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.

2. Purpose of the Operation

The proposed ground-based testing at BAE Systems’ range at Merrimack, NH 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.

A waiver of the Commission’s Station ID requirements in Section 5.115 is requested.

3. Mitigation of Interference

The technical and operational characteristic of the transmissions will ensure mitigation of impact to co-channel operations, as follows:

- The duration of each transmission will not to exceed 150 milliseconds
- The beam is narrow and fixed focused and does not scan, the computer steers the antenna to the target before radiating
- The target (located on the ground) is at a fixed location

4. 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
BIRD Aerosystems	BAS0030000	34.1-34.9 GHz	33 dBi	E-Plane H-Plane <u>deg</u> <u>deg</u> 3.5 3.5

RF Source

The RF source is integral to the BIRD Aerosystems MACS Sensor.

Additional Signal Amplification

Additional signal amplification is integral to the BIRD Aerosystems MACS Sensor.

Stop Buzzers

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