

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 two year conventional experimental license to operate the facilities (the “Facilities”) specified in the instant application.

2. Purpose of the Operation

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.

In support of Internal Research and Development, the purpose of these tests – a continuation of the authority originally authorized under STA pursuant to call sign WM9XLX – is to continue demonstrate a radar capability intended for aircraft protection against missile threats. Testing will continue to be done using threat simulators and RF transponders to demonstrate that this capability can achieve performance levels needed to support the aircraft self-protection mission.

A waiver of the Station ID requirements of 47 CFR §5.115(a) is respectfully requested.

3. Other Issues

A. Transmitting Equipment

Manufacturer	Model No	RF Power	# Units	Modulating Signal(s)	Experimental? Yes/No
BAE Systems	N/A	20 W, CW	1	No modulation	Yes

B. Antenna Data

Manufacturer	Model Number	Gain	Width of Beam @ 1/2 Power Point	Orientation in Horiz. Pane	Orientation in Vert. Pane
Echodyne	MESA-K-EVU	21 dB	4° az x 12° el	Depends on site geometry; electronically scanned +/- 60 degrees	Electronically scanned 0+/-40 degrees.

4. Interference Mitigation

The antenna under test has a narrow, electronically steerable beam with -16 dB average side lobes. Testing will typically consist of pointing this beam towards targets with a fixed

location and the main beam will not scan a large area. Generally during testing emission will be limited to short periods of less than 1 minute and only periodically with an overall duty cycle of less than 10% during tests. Testing will be sporadically planned and executed throughout the course of this license, typically for one to three days at a time at an expected frequency of once or twice a month. Testing will typically only occur between the hours of 8AM and 6PM EST on week days. During testing, targets will primarily be located on the ground and emission will be typically limited to no more than 10 degrees above the horizon. It is expected that these typical test conditions will represent 90% or more of the testing done under this license.

5. Stop Buzzers

Primary: Austin Dionne 603-540-1620

Alternate: Jacob Freedman 603-867-1028