

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”) for a six month period from April 9- October 9, 2018 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 both Internal Research and Development as well as the contract listed below, the purpose of these tests is to determine the viability of detecting small arms fire pursuant to protecting military helicopter pilots operating regions with hostile fire.

In addition to IR&D, the following government contract will be supported by these operations:

Customer/Agency: US Army Research Laboratory
Contract Number: W911NF-17-2-0139
Government POC: Dave Wikner 301-394-0865

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	5 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

BAE Systems hereby advises the Commission that the tests to be conducted under the requested authorization are to be conducted at the Sig Sauer Academy, 233 Exeter Rd, Epping, NH. All electronics are within a metal enclosure. The transmission will be placed within the allocated bandwidth in order to minimize interference. The operation will be sporadic over the 6 month period.

5. Stop Buzzers

Primary: Bruce Partin, (603) 885-1020
Alternate: Eric Rundquist, (603) 809-8960