

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 six month period, from 03/10/2017 through 09/10/2017.

2. Purpose and Nature of the Operation

BAE Systems manufactures and tests RF systems as well as antennas for DOD as well as other governmental customers. The testing specified in this Application will be conducted by BAE Systems Information and Electronic Systems Integration Inc., which is a major producer of electronic warfare systems, protection systems, and tactical surveillance and intelligence systems for all branches of the armed forces. This unit's lines of business include Electronic Warfare/Electronic Protection, Electronic Warfare/Information Warfare, Integrated Defense Solutions, and Mission Electronics with products and services spanning the whole electromagnetic spectrum.

BAE Systems developed and produces SIGINT systems used by US Government military customers. The SIGINT system performs Direction Finding and Geolocation, and needs to be fully characterized (or calibrated) and tested on an unmanned aircraft system (UAS) operated at Dugway Proving Ground (DPG), Dugway UT. The calibration and testing effort at DPG will directly enhance the performance, capabilities and accuracy of the SIGINT system. This technology will be incorporated into active military weapons systems, which in turn will directly improve the success and utility of the military missions flown by the SIGINT system in the areas of deployment.

This request is in direct support of US Army and their contract with BAE Systems, as follows:

Customer:	US Army
Contract No. :	W56KGY-16-D-0013
Customer Contract POC:	Freddie Lee – (443) 861-2309; Freddie.a.lee.ctr@mail.mil

3. Transmitting Equipment and Directionality/Orientation

Make	Model	QTY	1/2 Pwr Beam Width	Horizontal Orientation	Vertical Orientation	Experimental
LOW BAND						Y
Agilent	N5182A	2	n/a			
Empower	2108	2	n/a			
Signal Antenna	SA LP20DP	1	60°	+30°	Horizon + 90°	
MID BAND						Y
Agilent	N5182A	2	n/a			
Empower	2108	2	n/a			
Scientific Atlanta	29-0.1	1	60°	+30°	Horizon + 90°	
HIGH BAND						Y
Agilent	N5182A	2	n/a			
Amplifier Research	175S4G1	2	n/a			
Ant. Des. & Mfg.	LPDA-13/ADP	1	65°	+30°	Horizon + 90°	

4. Description of Frequency Requirements

At any given time, BAE Systems will not occupy the entirety of the bands listed in the Application. In fact, at any given time, within each of the band segments specified on the Application BAE Systems will only be transmitting within a 30 MHz sub-band for a very brief duration on only a select group of frequencies. Specifically, within each such 30 MHz sub-band, BAE Systems will operate as follows:

- Operation will occur on 160 frequencies in groups of up to 15 frequencies.
- Each of the 15 frequencies in each “group” will be separated by between 200KHz and 1.025MHz frequency spacing.
- Operation will occur within the 30 MHz sub-band for up to 25msec, then operation will move to the next 30 MHz sub-band.

5. Waiver of Station ID

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

6. **Stop Buzzer**

The designated point-of-contacts to terminate transmissions if interference occurs is:
BAE Systems Stop Buzzers:

Stephen (Speedy) Lang; Transmit Station Engineer; 603-738-7295
Paul Nuccio; Test Lead; 603-897-9764

Note: Because Dugway Proving Ground is in a very remote area and is surrounded on three sides by mountain ranges, cell coverage may be limited. Accordingly, the following additional “Stop Buzzers” are provided, with their landline numbers, who are located on site

DPG RIAC Test Facility
Test Leads
Doug McDaniel; 256-759-7642; 435-831-7841
Nate Critchlow; 435-841-1474

DPG Spectrum Manager
Jason Straughan; 435-831-3411