

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 experimental license to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant application.

2. Purpose of the Operation

The testing at the Litchfield Antenna Test Facilities 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.

Specifically, this experiment – a continuation of the transmissions previously authorized under File No. 0430-EX-ST-2012 (WF9XSN) – is conducted as part of deliverable requirements of a government contract in connection with BAE Systems’ development, testing and delivery of the AN/ALQ-218 (V) Low Band Antennas for the Navy’s EA-18G Aircraft as a second tier subcontractor under US Government prime contract N00019-09-C-0086. The experiment tests the functionality of individual antenna elements prior to their assembly into an antenna array. The elements will be swept over the specified frequency range and measured for amplitude and phase response. The elements will then be assembled into an array and the assembly measured at multiple discrete frequencies to determine the pattern and phase performance of the antenna assembly.

The prime contractor is Boeing, and BAE Systems’ direct customer is Northrop Grumman. A summary of the applicable contract numbers supporting use of the 228.8-328.6 MHz and 335.4-454 MHz bands appears below:

Ultimate End User/Customer:	US Navy
Navy Prime Contract Number with Boeing:	N00019-09-C-0086

POC: Mr. James Livolsi, (for N00019-09-C-0006, Northrop Grumman Corporation)
(516) 346-7380

Purchase orders from Boeing to Northrop Grumman	294383 ↓	516830 ↓
Associated Purchase orders from Northrop Grumman to BAE Systems:	2703438	2809126

3. Specific Frequency Requirements within Specified Bands

BAE Systems requires authority only for the following specific frequencies within the specified bands:

- 174-216 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

175.500000; 177.355369; 179.210738; 181.066107; 182.921477; 184.776846;
186.632215; 188.487584; 190.342953; 192.198322; 194.053691; 195.909060;
197.764430; 199.619799; 201.475168; 203.330537; 205.185906; 207.041275;
208.896644; 210.752013; 212.607383; 214.462752

- 216-225 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

216.318121; 218.173490; 220.028859; 221.884228; 223.739597;

- 225-328.6 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

225.594966; 227.450336; 229.305705; 231.161074; 233.016443; 234.871812;
236.727181; 238.582550; 240.437919; 242.293289; 244.148658; 246.004027;
247.859396; 249.714765; 251.570134; 253.425503; 255.280872; 257.136242;
258.991611; 260.846980; 262.702349; 264.557718; 266.413087; 268.268456;
270.123826; 271.979195; 273.834564; 275.689933; 277.545302; 279.400671;
281.256040; 283.111409; 284.966779; 286.822148; 288.677517; 290.532886;
292.388255; 294.243624; 296.098993; 297.954362; 299.809732; 301.665101;
303.520470; 305.375839; 307.231208; 309.086577; 310.941946; 312.797315;
314.652685; 316.508054; 318.363423; 320.218792; 322.074161; 323.929530;
325.784899; 327.640268

- 335.4-399.9 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

335.4-454 MHz - 336.917114; 338.772483; 340.627852; 342.483221; 344.338591;
346.193960; 348.049329; 349.904698; 351.760067; 353.615436; 355.470805;
357.326174; 359.181544; 361.036913; 362.892282; 364.747651; 366.603020;
368.458389; 370.313758; 372.169128; 374.024497; 375.879866; 377.735235;
379.590604; 381.445973; 383.301342; 385.156711; 387.012081; 388.867450;
390.722819; 392.578188; 394.433557; 396.288926; 398.144295; 399.999664

- 399.9-450 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

401.855034; 403.710403; 405.565772; 407.421141; 409.276510; 411.131879;
412.987248; 414.842617; 416.697987; 418.553356; 420.408725; 422.264094;
424.119463; 425.974832; 427.830201; 429.685570; 431.540940; 433.396309;
435.251678; 437.107047; 438.962416; 440.817785; 442.673154; 444.528523;
446.383893; 448.239262;

- 450-454 MHz

Actual Frequency Requirements within this Sub-Band are as Follows:

450.094631; 451.950000

4. Directionality of Antennas for Requested Bands

For the requested new bands, this antenna grouping relates to 5 different antennas which are directional in nature, and which do not exceed 6 meters in height above the ground (or above any structure). These antennas are as follows:

Manufacturer	Model #	Quantity	Gain (Nominal)	3dB BW E (Vertical)	3dB BW H (Horizontal)
Sunol	JB1	1	+6.5 dBi	30 Degrees	60 Degrees
Sunol	JB6	4	+6.5 dBi	30 Degrees	60 Degrees

5. Note Regarding Output Power/ERP Figures

For the purpose of completion of the attached form, antenna efficiency has been assumed to be 100%. Therefore, the transmitter power and the radiated power are reported as equal (i.e., both the Output Power and the ERP are reported as “.007 W”). In practice the antenna efficiency and cable loss between the transmitter and the antenna will be considered and the transmitter power adjusted to achieve the approved output radiated power level.

6. Note Regarding “Mean” Power Designation

In the attached form, the power levels are reported as a “Mean” value. The transmitter will not be left on continuously due to the nature of the experiment and the need to physically reposition the unit under test between measurements, cycle through frequencies, change elevation angles of the transmit antenna, etc. where the transmit power is reduced to zero. The actual duty cycle of the transmit system is approximately 7%. Mean power is therefore a more accurate representation of the applicant’s proposed activity.

7. Transmitting Equipment for Requested Bands

The following information is provided with respect to the transmitting equipment to be involved in the experiment for the requested bands. It is noted that each of these transmitters is non-experimental in nature, unless otherwise specified:

Manufacturer	Model	Quantity
Agilent	N5230C	1
Agilent	E5071C	1
Fluke	Fluke 6060	1
HP	HP8341	1
HP	HP8643A	2
HP	HP8340B	2
HP	HP8662A	1
HP	HP8671A	1

HP	HP8753A	2
HP	HP8753D	2
HP	HP8753E	2
HP	HP8510B	1
HP	HP8510C	1
Agilent	E8257D	1

8. Additional Signal Amplification for Requested Bands

Due to the low gain of the transmit antennas, an additional signal amplification may be utilized as follows:

Power Amplifiers	Model	Frequency Band	Power Output	Quantity
OPHIR	5069	.5MHz to 500MHz	8W	1
OPHIR	5094	1MHz to 1000MHz	3W	1

9. Stop Buzzers

“Stop Buzzer” contact Rick Ball at (603) 318-6913 or BAE Systems Emergency Services Center at (603) 885-3842 shall be available during testing to cease operations in the event of any interference.