

1. Introduction

By the instant application (“Application”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant an experimental Special Temporary Authority to permit BAE Systems to operate the facilities specified in the instant application.

2. Purpose of the Operation

BAE Systems, located in Greenlawn, New York, is researching and developing innovative applications of radar technology. This request is to enable product evaluation tests to characterize the performance of the Echodyne Echoflight Metamaterial Electronically Scanning Array (“MESA”) while temporarily installed on the rooftop of BAE Systems’ campus at Greenlawn, NY. After characterizing the performance BAE Systems will evaluate the potential use MESA radars for Military applications.

3. Waiver of Station ID Requirements of Section 5.115(a)

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

4. Mitigation of Interference

The Echodyne Echoflight MESA radar will be used without modification. The Echoflight radar (FCCID:2ANLB-MESADAA00051) has received FCC Equipment Authorization. The antenna and transmitter of the Echoflight are assembled in the same housing by the manufacturer. Analysis conducted by Echodyne indicates that Echoflight operation should not interfere with any licensed operation.

With respect to interference mitigation, it is noted that authority is requested for only limited and sporadic operation of the facilities. Specifically, operation of the facilities will occur only between 7am – 5pm (ET). In addition, during those hours, operation will be sporadic, not continuous. In fact, there may be extended periods of non-operation during the authorized period. It is expected that on each day, transmissions will not exceed 3 hours in cumulative duration. In addition, during the license period, it is expected that transmissions will not occur for more than 3 weeks in total cumulative transmitting time. In addition due to the height of the equipment and the surrounding wooded areas the extent of possible interference will be greatly mitigated.

5. Stop Buzzer

BAE Systems is well aware of its obligation under Commission rules to immediately terminate operation in the event of interference to any other licensed emitter. BAE Systems is a long-standing Commission licensee and the company will take any and all actions to ensure that it complies with its obligations as a licensee of experimental facilities. The Stop Buzzers in the event of interference are:

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