

**PUBLIC INTEREST STATEMENT**

**1. Introduction**

By the instant application (“Application”), Dynetics, Inc. (“Dynetics”) requests that the Commission grant a 2 year conventional experimental license to permit Dynetics to operate the facilities (the “Facilities”) specified in the instant Form 442.

**2. Purpose and Nature of the Operation**

Dynetics, headquartered in Huntsville, Alabama, delivers high-quality, high-value engineering, scientific, and information technology (IT) solutions to customers within the U.S. government and a range of other market segments. Dynetics delivers the "Power of Solutions," providing complete lifecycle analysis, engineering, and hardware, to support customer missions.

The requested license, a continuation of the operations previously authorized under STA under call sign WL9XJI, is requested is to test the Fortem low weight, low power prototype radars for detection and tracking of small UAS. Dynetics has received notification the government has exercised an option on phase 1 to continue the work beyond 6 months. In addition, Dynetics has been notified of a pending award for phase 2 of the program. The license will permit testing under the phase 1 option and the phase 2 award.

Operations are required on a temporary-fixed and airborne basis at and around Huntsville, AL (Antennas 1 and 2); Harvest, AL (at 00AL, Epps Airpark) (Antennas 3 and 4); and Hurtsboro, AL (at AL05, Sehoj Airport) (Antennas 5 and 6). When mobile, the facility will be mounted on an unmanned aircraft at a maximum altitude of 400 ft (122 m) AGL and within visual line-of-sight of the operator. When operating at an airport, operations will be coordinated with the airport owner.

This activity is necessary to support a DARPA Mobile Force Protection contract and will also provide useful feedback for Fortem related to work they are currently performing for an AFRL project as well as a NASA detect-and-avoid project.

Contract Information is as follows:

|                 |                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------|
| Agency:         | DARPA Mobile Force Protection (MFP)                                                              |
| Contract No. :  | HR0011-17-9-0017                                                                                 |
| Government POC: | Jean-Charles (JC) Lede<br>703-526-2844, <a href="mailto:jc.lede@darpa.mil">jc.lede@darpa.mil</a> |

Testing will be directed by the Dynetics engineering team, and in coordination with Fortem as a subcontractor (the Fortem engineering team was previously with IMSAR, from which Fortem purchased the technology).

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

**3. Interference Mitigation**

Dynetics is well aware of its obligations under Part 5 of the Commission's rules to avoid interference to co-channel licensees in non-experimental services, and will take all steps to ensure compliance with this obligation. With respect to interference mitigation, Dynetics understands that FAA (or other government stakeholders) may restrict radiation to certain azimuth and/or elevation sectors in order to ensure that the proposed Facilities do not pose a threat of interference to adjacent emitters. Accordingly, this is to confirm that Dynetics stands ready to work with FAA to identify any reasonably necessary restrictions for the system.

**4. Stop Buzzer.**

Dynetics advises that the following will be available by wireless telephone and will act as "stop buzzers" if any issues regarding interference arise during testing:

Primary: Baron Johnson - (352) 339-5272  
Secondary: Steve Norris - (256) 585-7885

For the foregoing reasons, Dynetics respectfully submits that approval of this Application is in the public interest, convenience and necessity.