

**PUBLIC INTEREST STATEMENT**

**1. Introduction**

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

**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.

As a general matter, this experimental license is requested to support a Dynetics Internal Research and Development (IRAD) project to develop, test and validate a ground surveillance radar. Dynetics will locate the radar at a fixed site on the roof of the Dynetics Solutions Complex building in Cummings Research Park. The radar will be placed on the building roof with the radar antenna at a fixed orientation of approximately 225° clockwise from true north and level with horizon. Note that there are superstructures on the building that are higher than where the radar will be placed, so the radar is not the highest point on the building and would not itself be a hazard to aviation. Additional confidential information regarding the purpose and nature of the experiment is contained at Confidential Exhibit 3.

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

A “No” reply has been inserted with respect to the question “Is a directional antenna (other than radar) used?” because the transmitter is a radar device. For the purposes of full disclosure, however, the following additional directionality information is provided:

Width of beam in degrees at the half power point:	Azimuth: 120 deg, elevation: 30 deg
Orientation in horizontal plane:	Fixed at 225 deg relative to North
Orientation in vertical plane:	Fixed at 0 deg; level with horizon

**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 the subject radar device can be manually pointed to specific directions to mitigate interference and that Dynetics stands ready to work with FAA (or other government stakeholders) to identify any reasonably

necessary orientation 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: Joel Simoneau (256-744-4514)  
Secondary: Jeff Skinner (256-457-2779)

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