

**PUBLIC INTEREST STATEMENT**

**1. Introduction**

By the instant application (“Application”), Dynetics, Inc. (“Dynetics”) requests that the Commission grant a 2 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 the following government contract, the general purpose of which is to develop a radar for the US government to track bullets and other high-speed projectiles in real-time:

Agency: PEO STRI

Contract No.: W900KK-13-C-0022

Contract POC: Minh Vuong - (407) 384-5232

The radar will be placed on retractable mast mounted on a trailer. The mast-mounted radar can be extended up to 50 ft. above the ground. The radar will be initially located on Dynetics property (at the latitude and longitude specified on Form 442) during the development phase and located on a test range on Redstone Arsenal (within the stated radius of operation) during the test phase. Additional confidential information regarding the nature and purpose of the experiment and the subject radar is set forth in 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: 75°; Elevation: 15°

Orientation in horizontal plane:

Will be oriented at various orientations relative to  
North (i.e. 360°)

Orientation in vertical plane:

+30 deg from 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.

The mast on which the transmitter is mounted will be extended to approximately 50 feet above ground level. There are buildings on Dynetics property that extend much higher than where the radar will be placed, so the radar is not the highest structure in the immediate area and would not be a hazard to aviation. Later in the development program, the radar will be relocated to a Redstone Arsenal test range for live-fire munition tests. Test ranges on Redstone Arsenal are within restricted and controlled air space and within the specified radius of operation.

### **4. Stop Buzzer.**

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

Primary: Joel Simoneau (256-744-4514)

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