

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application (“Application”), General Dynamics Armament and Technical Products, Inc. (“GDATP”) requests that the Commission grant to GDATP a two year experimental license to operate the facilities (the “Facilities”) specified in the instant Form 442.

2. Purpose and Nature of the Operation

The testing specified in this Application will be conducted by General Dynamics Armament and Technical Products (GDATP), a business unit of General Dynamics. The purpose of this experiment is to assist in the continued development of next generation unmanned aerial surveillance technologies, and will involve 2-way transmissions between ground-based transmitters and unmanned aerial surveillance aircraft. Such research will facilitate naval surveillance and ship recognizance missions, as well as to provide persistent, responsive battlefield surveillance at small unit echelons, and thereby provide warfighters the timely information they need to mitigate battlefield threats and reduce American casualties.

Testing authority is required in connection with a new avenue of IR&D identified by GDATP with respect to the integration of a Ku data link into alternative air vehicle applications, with such aircraft being smaller than previously studied Tier II applications. In addition, delays in the issuance of governmental contract in connection with the US Navy’s STUAS/Tier II UAS request for proposal (“RFP”) and delays in hardware availability require testing authority pursuant the requested 2 year license, to permit datalink development, as well as maturation of antenna pointing/tracking hardware and software integration, and the ability to conduct Tier II flight demonstrations that are anticipated to occur early next year.

3. Directionality

The form specifies “Yes” in response to the questions: “Is a directional antenna used?”. The “Yes” response relates to the ground-based (uplink) Ku-bands, as follows:

Gain (Nominal)	Width of Beam in Degrees at half-power point	Orientation in Vertical Plane	Orientation in Horizontal Plane
4 dBi	Omni directional	15° to -15°	0° to 360°
42.2 dBi	1.15° in Horizontal Plane 1.15° in Vertical Plane	-5° to 95°	0° to 360°
15 dBi	20° in Horizontal Plane 20° in Vertical Plane	-5° to 95°	0° to 360°

4. **Stop Buzzer**

GDATEP hereby advises that Mr. Richard Scheps will be available by wireless telephone at (802) 318-6561 and will act as a “stop buzzer” if any issues regarding interference arise during testing.