

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 specified in the instant Form 442.

2. Purpose and Nature of the Operation

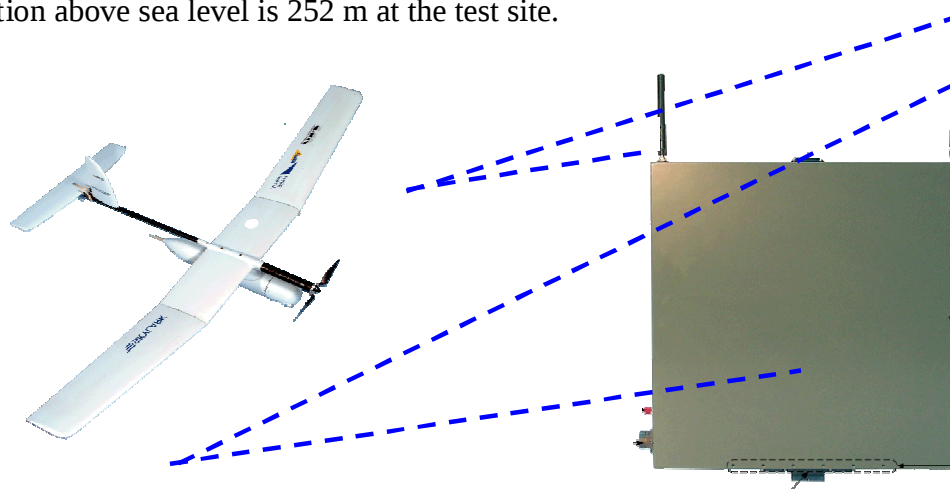
The testing specified in this Application will be conducted by GDATP, a business unit of General Dynamics. The purpose of this experiment is to assist in the rapid development, testing, and demonstration to key representatives of the U.S. Armed Forces of state-of-the-art unmanned aerial surveillance technologies. Transmissions originate from the ground and the air, as follows:

Ground-Based Transmissions:

Originating from a laptop/consul/tripod configuration, located at temporary-fixed locations within a 1 km radius around the centerpoint coordinates of: 44-28-42 N.Lat.; 072-56-57 W.Long. (NAD 83) (“Centerpoint Coordinates”) (Centerpoint Coordinates located at Ethan Allen Firing Range in Jericho, VT)

Airborne Transmissions:

Mobile airborne transmissions originating from an unmanned aerial surveillance aircraft, within a 7 km radius around the Centerpoint Coordinates. Maximum flight planned is 1219.2 m above ground level. The firing range air space is controlled by Burlington International airport, which - line of site - is 15.7 km away from the firing range. Ground elevation above sea level is 252 m at the test site.



The goal of this testing is 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. This effort represents a cooperative effort between GDATP and the U.S. Army’s Ft. Benning Infantry Battle Lab, and the effort is fully

supported by the U.S Army's Ft. Benning Infantry Battle Lab and Yuma Proving Ground personnel. Having successfully completed the requisite preliminary safety assessment and safety report necessary for full-scale tests at Ft. Benning, the Ethan Allen Range has now been identified as an "engineering center" for ongoing evaluation of UAS-based payloads and sensors to support the needs of the Warfighter, as well as long-term training of military personnel operating this technology. As such, GDATP has filed this Application seeking a 2 year experimental license for continued experimental operations to support this effort.

3. Stop Buzzer – GDATP 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

4. Directionality of Antennas

The Antenna Registration for the ground-based transmissions specifies "Yes" in response to the question: "Is a directional antenna used?". This is to clarify that for such ground-based transmissions, one of 3 different antennas may be used. Of those three potential antennas, only one is directional. Such directional antenna is characterized by the following:

Gain (Nominal)	Width of Beam in Degrees at half-power point	Orientation in Vertical Plane	Orientation in Horizontal Plane
+18dBi	16° in Horizontal Plane 15° in Vertical Plane	0-90°	360°

This experiment is extremely limited in scope, as operation of the facilities will occur only from approximately 7am-4 pm (ET). In addition, during those hours, operation will be sporadic, not continuous. Training flights are envisioned to be only approximately 2 hours each. To date, operations under STA have resulted in no interference issues on the base or with commercial/civilian operators.

Finally, AFTRCC coordination has been conducted and the results of such coordination are attached hereto.

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