

INTERNATIONAL SYSTEMS LLC
FCC FORM 442
EXPERIMENTAL LICENSE APPLICATION
MAY 2005

Description of Experiment

The purpose of this experiment is to test the command and control systems of unmanned aeronautical vehicles. This experiment will extend the communications range for Applicant's Affordable Weapon (AW) vehicle. Applicant submits that a grant of this application will serve the public interest by advancing the homeland security initiatives of the United States military.

Response to Question 4:

The requested authorization is to be used in fulfilling the requirement of a government contract with an agency of the United States Government. Specifically, government project is known as the "Affordable Weapon Spiral O," under the auspices of the Naval Sea Systems Command. The contract number is N00024-04-C-6301. The Navy contact person is Janet Crowe/SEA 0263.

Response to Question 8:

Applicant is requesting a two-year license. Applicant anticipates that two years will be sufficient for completion of the experimental project, but reserves the right to request license renewal upon an adequate showing of need.

Response to Question 11:

Applicant's equipment is capable of broadcasting the ESSID. To the extent necessary, Applicant requests a waiver of the station identification requirements.

Response to Question 12:

Applicant is a Limited Liability Company (LLC).

Response to Antenna Profile Information

The fixed (base) directional antenna will be attached to a 30 foot metal antenna pole, situated next to a bunker and adjacent power lines that provide electricity to the bunker. The bunker is located at the Yuma Proving Ground in Yuma, AZ.

The omnidirectional mobile antenna will be affixed to an unmanned air vehicle (UAV) flying above Yuma Proving Ground, with an approximate radius of 33

kilometers. The maximum height at which the UAV mobile antenna will operate will be 15,000 feet.

2820150_v1