

Exhibit 1

Description of Experimental Program

Lockheed Martin Corporation requires the use of Global Positioning System (GPS) Re-Radiation (Re-Rad) systems at our Remote Minehunting System (RMS) test facilities in Riviera Beach, Florida. This equipment will be used for the purpose of testing and verifying GPS receiver functionality of the RMS Remote Multi-Mission Vehicle (RMMV) provided by Lockheed Martin as part of the RMS. Currently, in order to obtain a GPS signal, the vehicle and all supporting test equipment must be positioned outside of the test facility complex. Physical access to internal RMMV equipment needed to support integration and test activities is precluded under these conditions. Additionally, this capability is now required to support the ability to perform RMMV pre-launch procedures as they will be carried-out aboard the US Navy's Littoral Combat Ships which employ the RMS. The GPS Re-Rad systems are designed to re-transmit the GPS signal at approximately the same signal level as received outside the test facility. This Exhibit describes the implementation required at the Riviera Beach facility. The purpose of this application is modification of the existing WF2XXK license to add GPS L1 and L2 frequencies associated with the GPS Re-Rad system described in this exhibit.

1. PROGRAM DESCRIPTIONS

General Description.

The additional frequencies requested in this license modification correspond to the L1 and L2 Global Positioning Satellite (GPS) signals which will be received and then rebroadcasted (1) within a space approximately 200' x 50' within a 2-story steel building located adjacent to the antenna tower identified on FCC License WF2XXK and (2) within an area approximately 30' x 50' immediately outside the space described in (1). The outdoor area is covered by a corrugated metal roof with a perimeter fascia extending down approximately 4 feet from the roof deck.

The new transmitters associated with this request were selected based on hardware that the US Navy is procuring for installation on the Littoral Combat Ships (LCS). The AN/WLD-1 Remote Minehunting System (RMS) vehicle is produced by Lockheed Martin for deployment aboard LCS as part of the Mine Countermeasure (MCM) Mission Package. Installation of the equipment in a similar configuration to that of the LCS will support RMS vehicle testing and MCM crew training activities at the Lockheed Martin Riviera Beach facility in accordance with the referenced US Government contracts.

Technical Information.

Locations:

100 E. 17th Street Riviera Beach, FL

Longitude:	West 80° 3' 9"
Latitude:	North 26° 46' 38"

2. EQUIPMENT

All of the above sites will use the following equipment:

Transmit Antenna Orientation:	115 degrees vertical, 360 degrees horizontal. Antenna is directional typically facing down towards the ground at an angle of approximately 15° to 30°.
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Transmit Antenna Polarization: Right hand circular polarization (RHCP)
Frequencies: 1227.6 MHz, 1575.42 MHz (GPS L2/L1)
Emissions: 20M4W7D
Power at antenna input / ERP: 4.900000 pW / 9.800000 pW

3. CONDITIONS OF LICENSE

For all the foregoing programs, the following conditions will apply.

In order to ensure no GPS re-radiated signal adversely affects safety-of-life applications, Lockheed Martin will only transmit:

- Indoors, or strictly within the outdoor space;
- Such that no GPS re-radiated signal level greater than or equal to -140 dBm, measured 100 feet from the designated operational perimeter (215' x 51') will occur; and
- When testing an RMS RMMV is considered necessary.

In addition:

- The "Stop Buzzer" emergency point of contact (POC) will be as indicated on the WF2XXK license.
- If the POC changes, Lockheed Martin will notify the FCC.
- The location of the GPS transmitters will be fixed and located in such a way that the entire area of potential interference from the GPS transmitters is under the control of Lockheed Martin personnel - the facility where the transmitters will be located is a "secure" facility where security personnel control ingress and egress.