

**MODIFICATION OF EXPERIMENTAL LICENSE****(CALL SIGN WK2XPP)**

Lockheed Martin Corporation (“Lockheed Martin”) holds an experimental license under Call Sign WK2XPP (File No. 0922-EX-CN-2019) to operate on two UHF frequencies. Lockheed Martin is currently conducting testing to determine the feasibility of a new communications architecture that Lockheed Martin is developing in collaboration with a Department of Defense customer under U.S. Navy contract N00019-14-C-0050.

Based on the positive results of its ongoing testing at the location, Lockheed Martin has determined that it requires additional frequency pairs in order to conduct full-duplex radio testing. Accordingly, Lockheed Martin is herein seeking modification of license WK2XPP to add those additional frequency pairs.

These operations will primarily permit Lockheed Martin to test proof of concept and system verification to support anticipated future operational needs.

**Purpose of Modification.**

Lockheed Martin currently is authorized to operate a fixed transmitter at its Owego facility. The aircraft transceiver is operated within 20 nm of the coordinates around that facility.

Lockheed Martin initially selected a frequency pair from Annex B of the DOD’s UHF Channel Plan. Lockheed Martin has likewise selected compatible Annex B frequencies, identified below, in support of the U.S. Government contract identified above.

The Form 442 reflects the following frequencies, as the subject of this modification:

Request authority for the following frequencies for fixed station (4W ERP) in Owego:

**245.875 MHz** – 25KHz channel (within M245.775 thru M246.975 range of DOD UHF Channel Plan Annex B)

**246.875 MHz** – 25KHz channel (within M245.775 thru M246.975 range of DOD UHF Channel Plan Annex B)

**248.250 MHz** – 25KHz channel (within M247.150 thru M248.350 range of DOD UHF Channel Plan Annex B)

Request authority for the following frequencies for mobile terminal (200W ERP) within 20nm of Owego coordinates:

**299.875 MHz** – 25KHz channel (within M299.775 thru M300.975 range of DOD UHF Channel Plan Annex B)

**304.250 MHz** – 25KHz channel (within M303.650 thru M304.850 range of DOD UHF Channel Plan Annex B)

**313.375 MHz** – 25KHz channel (within M312.275 thru M313.475 range of DOD UHF Channel Plan Annex B)