

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WF2XZE

(Call Sign)

0442-EX-RR-2015

(File Number)

NAME Lockheed Martin Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

(1) Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

Frequency Information

Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 1301.587302 MHz | FX            | 40M0P0N             | 235.1 W (ERP)    |                           |
| 1317.460317 MHz | FX            | 40M0P0N             | 235.1 W (ERP)    |                           |
| 1322.580645 MHz | FX            | 40M0P0N             | 235.1 W (ERP)    |                           |
| 1333.333333 MHz | FX            | 40M0P0N             | 258.8 W (ERP)    |                           |

This authorization effective December 01, 2015 and  
will expire 3:00 A.M. EST December 01, 2017

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 1444.444444 MHz | FX            | 40M0P0N             | 286.6 W (ERP)    |                           |
| 1451.612903 MHz | FX            | 40M0P0N             | 281.8 W (ERP)    |                           |
| 1460.31746 MHz  | FX            | 40M0P0N             | 298.6 W (ERP)    |                           |
| 1476.190476 MHz | FX            | 40M0P0N             | 314.4 W (ERP)    |                           |
| 1483.870968 MHz | FX            | 40M0P0N             | 295.5 W (ERP)    |                           |
| 1492.063492 MHz | FX            | 40M0P0N             | 286 W (ERP)      |                           |
| 1507.936508 MHz | FX            | 40M0P0N             | 280.5 W (ERP)    |                           |
| 1516.129032 MHz | FX            | 40M0P0N             | 270.6 W (ERP)    |                           |
| 1523.809524 MHz | FX            | 40M0P0N             | 260.6 W (ERP)    |                           |
| 1634.920635 MHz | FX            | 40M0P0N             | 179.5 W (ERP)    |                           |

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| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 1698.412698 MHz | FX            | 40M0P0N             | 239.8 W (ERP)    |                           |
| 1709.677419 MHz | FX            | 40M0P0N             | 228.8 W (ERP)    |                           |
| 1710-1755 MHz   | FX            | 40M0P0N             | 221.5 W (ERP)    |                           |
| 1755-1842 MHz   | FX            | 40M0P0N             | 214.6 W (ERP)    |                           |
| 1850-2000 MHz   | FX            | 40M0P0N             | 202.9 W (ERP)    |                           |

## Special Conditions:

- (1) All operations subject to coordination with the Gulf Area Frequency Coordinator located at Eglin AFB, Florida, prior to use with the area bounded by 27 degrees N. 33 degrees 30' N; and 83 degrees W. 90 degrees W.
- (2) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.
- (3) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Southern Coordinator, Atlanta, GA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.
- (4) All operations subject to coordination with the Eastern Area Frequency Coordinator located at Patrick AFB, Florida, prior to use within the area bounded by 24 degrees N, 31 degrees 30' N and 77 degrees W, 83 degrees W.
- (5) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (6) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.

**Special Conditions:**

- (7) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (8) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (9) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (10) The licensee shall not constrain or limit the present or future growth of non-Federal and Federal radio services in the area of operation. Furthermore, the licensee shall:  
(1.) be responsible for remedying RF interference caused to non-Federal and Federal users including terminating transmissions if necessary to resolve interference, (2.) maintain a transmission log as a standard operating procedure, (3.) periodically check the FCC licensing databases to monitor the authorizations granted in the area of operation, and (4.) notify appropriate the FCC Field Office(s) of the test locations and duration of operation. The Stop Buzzer for this authorization is Robert Reim at (407) 568-7100.
- (11) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8682-10-C-0016. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (12) All operations in frequencies: 1301.587302 , 1317.460317 , 1322.580645 , 1333.333333 (All in MHz) are limited to:  
Pulse Duration: 0.055 usec  
Pulse Repetition Rate: 60K pps