

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

EXPERIMENTAL

(Nature of Service)

WE2XMJ

(Call Sign)

XT      FX MO

(Class of Station)

0012-EX-PL-2007

(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(i) of the Commission's Rules

Station Locations

- (1) Orlando (ORANGE), FL - NL 28-26-08; WL 81-27-07; MOBILE: Orlando (ORANGE), FL, within 50 km, centered around NL 28-26-08; WL 81-27-07
- (2) MOBILE: EOTS, within 50 km, centered around NL 28-22-39; WL 81-04-57
- (3) MOBILE: Fort Rucker Reservat, AL, within 50 km, centered around NL 31-20-47; WL 85-39-16
- (4) MOBILE: Redstone Arsenal, AL, within 50 km, centered around NL 34-40-27; WL 86-40-54
- (5) MOBILE: Mesa, AZ, within 50 km, centered around NL 33-28-07; WL 111-43-35
- (6) MOBILE: Yuma, AZ, within 50 km, centered around NL 32-51-38; WL 114-24-08
- (7) MOBILE: Salt Lake City, UT, within 50 km, centered around NL 40-46-46; WL 111-57-09
- (8) MOBILE: San Diego, CA, within 50 km, centered around NL 33-01-07; WL 117-05-45

Frequency Information

Orlando (ORANGE), FL - NL 28-26-08; WL 81-27-07; MOBILE: Orlando (ORANGE), FL, within 50 km, centered around NL 28

| Frequency      | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | FX            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D | 12 kW (ERP)      |                           |

This authorization effective March 05, 2008 and  
will expire 3:00 A.M. EST March 01, 2013

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Orlando (ORANGE), FL - NL 28-26-08; WL 81-27-07; MOBILE: Orlando (ORANGE), FL, within 50 km, centered around NL 28

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | FX            | 90M0G1D                                             | 12 kW (ERP)      |                           |
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | FX            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

MOBILE: EOTS, within 50 km, centered around NL 28-22-39; WL 81-04-57

| Frequency      | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D | 12 kW (ERP)      |                           |

## Frequency Information

MOBILE: EOTS, within 50 km, centered around NL 28-22-39; WL 81-04-57

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 90M0G1D                                             | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

MOBILE: Fort Rucker Reservat, AL, within 50 km, centered around NL 31-20-47; WL 85-39-16

| Frequency      | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D            | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D<br>8M60G1D | 12 kW (ERP)      |                           |

## Frequency Information

MOBILE: Redstone Arsenal, AL, within 50 km, centered around NL 34-40-27; WL 86-40-54

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

MOBILE: Mesa, AZ, within 50 km, centered around NL 33-28-07; WL 111-43-35

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

## Frequency Information

MOBILE: Yuma, AZ, within 50 km, centered around NL 32-51-38; WL 114-24-08

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

MOBILE: Salt Lake City, UT, within 50 km, centered around NL 40-46-46; WL 111-57-09

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

## Frequency Information

MOBILE: San Diego, CA, within 50 km, centered around NL 33-01-07; WL 117-05-45

| Frequency      | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14.4-14.83 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |
| 15.35-15.5 GHz | MO            | 8M60G1D<br>44M0G1D<br>64M0G1D<br>76M0G1D<br>90M0G1D | 12 kW (ERP)      |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.
- (4) The equipment will not be developed for operational use in this band.