

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

EXPERIMENTAL

(Nature of Service)

KE2XZF

(Call Sign)

XD      FX MO

(Class of Station)

0070-EX-RR-2004

(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(g, i) of the Commission's Rules

Station Locations

- (1) SYRACUSE (ONONDAGA), NY - NL 43-06-43; WL 76-11-18
- (2) MOBILE: SYRACUSE (ONONDAGA), NY, within 27 km, centered around NL 43-06-43;  
WL 76-11-18

Frequency Information

SYRACUSE (ONONDAGA), NY - NL 43-06-43; WL 76-11-18

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 32.2 MHz  | FX            | 25K0F2D             | 15 W (ERP)       | 0.002 %                   |
| 40.68 MHz | FX            | 25K0F2D             | 15 W (ERP)       | 0.002 %                   |
| 49.9 MHz  | FX            | 25K0F2D             | 15 W (ERP)       | 0.002 %                   |

This authorization effective July 01, 2004 and  
will expire 3:00 A.M. EST July 01, 2006

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: SYRACUSE (ONONDAGA), NY, within 27 km, centered around NL 43-06-43; WL 76-11-18

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1250 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1260 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1270 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1280 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1290 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1340 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1360 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1370 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1380 MHz  | MO            | 1M99P0N             | 115 kW (ERP)     |                           |
| 1390 MHz  | MO            | 1M99P0N             | 115 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.

**Special Conditions:**

- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) These frequency assignments on 1250 MHz, 1260 MHz, 1270 MHz, 1280 MHz, 1290 MHz, 1340 MHz, 1360 MHz, 1370 MHz, 1380 MHz and 1390 MHz were coordinated prior to authorization with the FAA Eastern Coordinator, New York, New York. Use of these frequencies under the authority of this assignment are subject to such further coordination with the FAA Eastern Coordinator, New York, New York, as necessary to ensure compatibility with existing uses.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by contract number DAAH-01-00-C-0028, Australia contracts VACS/SC/9623 and 093MOC054 and Swiss contracts 152926 and 4500'306'888. 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 contracts designated in the related application and enumerated above.
- (5) The Pulse Repetition Rate (PRR) = 1 - 4000 pps.
- (6) The Pulse Duration (PD) = 16 us.
- (7) Transmissions using 1250 MHz are required to be blanked between 5-15 degrees referenced to true north.
- (8) Transmissions using 1260 MHz are required to be blanked between 178-188 degrees referenced to true north.
- (9) Transmissions using 1280 MHz are required to be blanked between 5-15 degrees referenced to true north.
- (10) Transmissions using 1290 MHz are required to be blanked between 5-15 degrees, 24-34 degrees and 242-252 degrees referenced to true north.
- (11) Transmissions using 1340 MHz are required to be blanked between 5-15 degrees, 24-34 degrees and 99-109 degrees referenced to true north.
- (12) Transmissions using 1360 MHz are required to be blanked between 14-24 degrees referenced to true north.
- (13) Transmissions using 1370 MHz are required to be blanked between 14-24 degrees referenced to true north.