

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

EXPERIMENTAL

(Nature of Service)

XD     FX

(Class of Station)

WC2XOE

(Call Sign)

0025-EX-PL-2001

(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) BITHLO (ORANGE), FL - NL 28-22-35; WL 81-04-55

Frequency Information

BITHLO (ORANGE), FL - NL 28-22-35; WL 81-04-55

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 902-960 MHz     | FX            | 50M0P0N             | 1.8 MW (ERP)     |                           |
| 1215-1300 MHz   | FX            | 50M0P0N             | 1.8 MW (ERP)     |                           |
| 1350-1400 MHz   | FX            | 50M0P0N             | 1.8 MW (ERP)     |                           |
| 2400 MHz        | FX            | 200MP0N             | 5.8 MW (ERP)     |                           |
| 2900-3650 MHz   | FX            | 200MP0N             | 5.8 MW (ERP)     |                           |
| 4400-4990 MHz   | FX            | 400MP0N             | 10.2 MW (ERP)    |                           |
| 5250-5600 MHz   | FX            | 400MP0N             | 10.2 MW (ERP)    |                           |
| 5650-5925 MHz   | FX            | 400MP0N             | 10.2 MW (ERP)    |                           |
| 8500-9000 MHz   | FX            | 400MP0N             | 12.9 MW (ERP)    |                           |
| 9200-10000 MHz  | FX            | 400MP0N             | 12.9 MW (ERP)    |                           |
| 15400-18000 MHz | FX            | 400MP0N             | 13.5 MW (ERP)    |                           |
| 33400-36000 MHz | FX            | 400MP0N             | 15 MW (ERP)      |                           |
| 95-101 GHz      | FX            | 400MP0N             | 15 MW (ERP)      |                           |

Special Conditions:

- (1) 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

This authorization effective December 18, 2002 and  
will expire 3:00 A.M. EST January 01, 2005

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



Special coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, [executivedir@sbe.org](mailto:executivedir@sbe.org); information, [www.sbe.org](http://www.sbe.org).
- (6) All operations on frequencies allocated to the land mobile public safety service must be coordinated with the designated land mobile public safety coordinator.
- (7) Use of the frequency 2400 MHz will expire on May 01, 2004 in accordance with AFTRCC Coordination #: ICN0081-02.
- (8) Operations in the band 902-960 MHz are permitted using the following specifications only. Radar cross section measurement range. Transmitter is restricted to pointing at 150 degrees in azimuth and antennas are parabolic dish. The maximum above ground height is 210 inches and maximum power is 1 kW and average antenna gain is 40 dB, average 0.5 beam width. Per Claude Wells from Lockheed Martin Corporation.
- (9) All operations on frequencies allocated to the fixed microwave service must be prior coordinated with existing fixed microwave stations in accordance with 47 CFR, Part 101.103(d).
- (10) Operations shall be coordinated in accordance with CFR 47 Part 25.251.
- (11) Operations in the bands 1215-1300 MHz, 1350-1400 MHz and 15400-18000 MHz are permitted using the following specifications only. Radar cross section measurement range. Transmitter is restricted to pointing at 150 degrees in azimuth and antennas are parabolic dish. The maximum above ground height is L band 210 inches, S band 103 inches, C band 42 inches, X band 24 inches and Ku band 18 inches and maximum output power is 1 kW and average antenna gain is 40 dB, average beamwidth is 0.5 degrees. Per Claude Wells from Lockheed Martin Corporation.