

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WF2XXB

(Call Sign)

0383-EX-PL-2011

(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(b) 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 (+/-)
2000 MHz	FX	116MP0N	1.18 MW (ERP)	
2015.748031 MHz	FX	116MP0N	1.19 MW (ERP)	
2031.496063 MHz	FX	116MP0N	1.25 MW (ERP)	
2031.746032 MHz	FX	116MP0N	1.25 MW (ERP)	

This authorization effective February 23, 2012 and
will expire 3:00 A.M. EST September 01, 2013

**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 (+/-)
2047.244094 MHz	FX	116MP0N	1.33 MW (ERP)	
2062.992126 MHz	FX	116MP0N	1.35 MW (ERP)	
2063.492063 MHz	FX	116MP0N	1.35 MW (ERP)	
2078.740157 MHz	FX	116MP0N	1.38 MW (ERP)	
2094.488189 MHz	FX	116MP0N	1.45 MW (ERP)	
2095.238095 MHz	FX	116MP0N	1.45 MW (ERP)	
2110.23622 MHz	FX	116MP0N	1.47 MW (ERP)	
2125.984252 MHz	FX	116MP0N	1.49 MW (ERP)	
2126.984127 MHz	FX	116MP0N	1.49 MW (ERP)	
2141.732283 MHz	FX	116MP0N	1.51 MW (ERP)	

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2157.480315 MHz	FX	116MP0N	1.54 MW (ERP)	
2158.730159 MHz	FX	116MP0N	1.54 MW (ERP)	
2173.228346 MHz	FX	116MP0N	1.58 MW (ERP)	
2188.976378 MHz	FX	116MP0N	1.6 MW (ERP)	
2190.47619 MHz	FX	116MP0N	1.6 MW (ERP)	
2204.724409 MHz	FX	116MP0N	1.62 MW (ERP)	
2220.472441 MHz	FX	116MP0N	1.59 MW (ERP)	
2222.222222 MHz	FX	116MP0N	1.59 MW (ERP)	
2236.220472 MHz	FX	116MP0N	1.27 MW (ERP)	
2251.968504 MHz	FX	116MP0N	1.27 MW (ERP)	

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2253.968254 MHz	FX	116MP0N	1.27 MW (ERP)	
2267.716535 MHz	FX	116MP0N	1.27 MW (ERP)	
2283.464567 MHz	FX	116MP0N	1.27 MW (ERP)	
2285.714286 MHz	FX	116MP0N	1.27 MW (ERP)	
2299.212598 MHz	FX	116MP0N	1.27 MW (ERP)	
2314.96063 MHz	FX	116MP0N	1.27 MW (ERP)	
2317.460317 MHz	FX	116MP0N	1.27 MW (ERP)	
2346.456693 MHz	FX	116MP0N	1.27 MW (ERP)	
2349.206349 MHz	FX	116MP0N	1.27 MW (ERP)	
2362.204724 MHz	FX	116MP0N	1.27 MW (ERP)	

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2377.952756 MHz	FX	116MP0N	1.27 MW (ERP)	
2380.952381 MHz	FX	116MP0N	1.27 MW (ERP)	
2393.700787 MHz	FX	116MP0N	1.27 MW (ERP)	
2409.448819 MHz	FX	116MP0N	1.27 MW (ERP)	
2412.698413 MHz	FX	116MP0N	1.27 MW (ERP)	
2425.49685 MHz	FX	116MP0N	1.27 MW (ERP)	
2440.944882 MHz	FX	116MP0N	1.27 MW (ERP)	
2444.444444 MHz	FX	116MP0N	1.27 MW (ERP)	
2456.692913 MHz	FX	116MP0N	1.27 MW (ERP)	
2472.440945 MHz	FX	116MP0N	1.82 MW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2476.190476 MHz	FX	116MP0N	1.8 MW (ERP)	
2488.188976 MHz	FX	116MP0N	1.78 MW (ERP)	
2500-2655 MHz	FX	116MP0N	3.58 MW (ERP)	
2661.417323 MHz	FX	116MP0N	1.98 MW (ERP)	
2666.666667 MHz	FX	116MP0N	1.98 MW (ERP)	
2677.165354 MHz	FX	116MP0N	2.03 MW (ERP)	
3650.793651 MHz	FX	116MP0N	3.02 MW (ERP)	
3653.543307 MHz	FX	116MP0N	3.02 MW (ERP)	
3669.291339 MHz	FX	116MP0N	2.99 MW (ERP)	
3682.539683 MHz	FX	116MP0N	2.97 MW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3685.03937 MHz	FX	116MP0N	2.97 MW (ERP)	
3700-4000 MHz	FX	116MP0N	3.58 MW (ERP)	
25330.708661 MHz	FX	116MP0N	1.85 MW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, 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 AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (6) 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.
- (7) Operation in the band 2320-2345 MHz requires consent of existing Satellite Digital Audio Radio Service (SDARS) licensees.
- (8) 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.

Special Conditions:

- (9) The applicant shall secure consent from the existing and future Advanced Wireless Service licensees prior to operation on the ranges of 1995-2000 MHz, 2020-2025 MHz and 2110-2180 MHz.
- (10) The applicant shall coordinate with the local Society of Broadcast Engineers (SBE) coordinator prior to operation on 2025-2110 MHz and 2450-2500 MHz and coordinate with the Fixed Microwave Service licensees prior to operation in the 3700-4200 MHz and 2450-2500 MHz bands.
- (11) Operations in frequency band 3650 -3700 MHz, must maintain separation from grandfathered earth stations as defined in Part 90, subpart Z, or coordinate an agreement with the grandfathered earth station licensees. In addition, the applicant shall consult the ULS database to ensure that its operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band and notify the registered users in the area.
- (12) Use of frequencies under the authority of this assignment is subject to further coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.
- (13) 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.
- (14) The designated point-of-contact to terminate transmissions if interference occurs is Robert Reim at (407) 568-7100.
- (15) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees in frequency band 2500 - 2690 MHz within 80 km.
- (16) Due to possible harmful interference to the FAA operations, frequencies 2692.913386 MHz and 2698.412698 MHz are not permitted.