

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

KA2XBN

(Call Sign)

0301-EX-RR-2014

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

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M33M1D	131 kW (ERP)	
2740 MHz	MO	4M00P0N 4M27Q8N	52 MW (ERP)	
2760 MHz	MO	4M00P0N 4M27Q8N	52 MW (ERP)	
2805 MHz	MO	1M20P0N	52 MW (ERP)	

This authorization effective September 01, 2014 and
will expire 3:00 A.M. EST September 01, 2016

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Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2805 MHz	MO	4M00P0N 4M27Q8N	52 MW (ERP)	
2850 MHz	MO	4M00P0N 4M27Q8N	52 MW (ERP)	
2875 MHz	MO	4M00P0N 4M27Q8N 1M20P0N	52 MW (ERP)	
2895 MHz	MO	4M00P0N 4M27Q8N	52 MW (ERP)	

Special Conditions:

- (1) Assignment on 1030 MHz or in one of the bands 1215-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, NY, 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) 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 station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required to support the U.S. Government and/or foreign contract numbers: N66604-02-C-3365, N00019-00-C-0340 , 010402, 02/740/2007 , 12/AHM/FRA/2007 , and 12/AHM/FRA/2008 . 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.
- (6) A pulse repetition rate of 883.2 pps is specified for the use of the frequencies 2760 MHz, 2740 MHz, 2850 MHz and 2895 MHz.
A pulse repetition rate of 164 pps is specified for the use of the frequency 1030 MHz.
A pulse repetition rate of 900 pps is specified for the use of the frequencies 2805 MHz and 2875 MHz.
- (7) Transmissions using the frequency 2850 MHz are required to be blanked between 73-93 degrees and 266-276 degrees.
- (8) This frequency assignment was coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, D.C. 20591. Phone: 202-267-9739.
- (9) Pulse durations of 10.26 microseconds and 100 microseconds are specified for the use of the frequencies 2760 MHz, 2805 MHz, 2875 MHz, 2740 MHz, 2850 MHz and 2895 MHz.
- (10) The operation on 1030 MHz is limited to average interrogation rate confined between 222 and 250 interrogations per second.
- (11) 2740 MHz Blank +/- 5 degrees toward the coordinates 43-13-41N, 75-25-26W to protect operations in Rome, NY on 2737.49 MHz that is approximately 31NM away.

2760 MHz Blank +/- 5 degrees toward the coordinates 44-18-34N, 75-38-44W to protect operations in Ottawa, CAN on 2760 MHz located approximately 135NM away.

2760 MHz Blank +/- 5 degrees toward the coordinates 44-06-15N, 75-38-44W to protect operations in Ft. Drum, NY on 2765 MHz located approximately 64NM away.

2850 MHz Blank +/- 5 degrees toward the coordinates 45-20-30N, 75-55-00W to protect operations in Kanata Ontario, CAN on 2850 MHz located approximately 135 NM away.

2875 MHz Blank +/- 5 degrees toward the coordinates 45-20-30N 75-55-00W to protect operations in Kanata Ontario, CAN on 2875 MHz located approximately 135 NM away.

2895 MHz Blank +/- 5 degrees toward the coordinates 42-12-50N, 75-58-44W to protect operations in Binghamton, NY on 2895 MHz located approximately 53 NM away.