

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

EXPERIMENTAL

(Nature of Service)

XE MO

(Class of Station)

WC2XRO

(Call Sign)

0057-EX-RR-2009

(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) MOBILE: Syracuse, NY, within 1 km, centered around NL 43-06-43; WL 76-11-18
- (2) MOBILE: E.Syracuse, NY, within 1 km, centered around NL 43-05-20; WL 76-05-53
- (3) MOBILE: S.Syracuse, NY, within 1 km, centered around NL 42-55-37; WL 75-55-27

Frequency Information

MOBILE: Syracuse, 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)	
1261-1289 MHz	MO	17M9Q7N	131 MW (ERP)	
1261-1289 MHz	MO	17M9Q7N	52 kW (ERP)	
1353-1392 MHz	MO	17M9Q7N	131 MW (ERP)	

This authorization effective March 31, 2009 and
will expire 3:00 A.M. EST April 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1353-1392 MHz	MO	17M9Q7N	52 kW (ERP)	

MOBILE: E.Syracuse, NY, within 1 km, centered around NL 43-05-20; WL 76-05-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1261-1289 MHz	MO	17M9Q7N	131 MW (ERP)	
1353-1392 MHz	MO	17M9Q7N	131 MW (ERP)	

MOBILE: S.Syracuse, NY, within 1 km, centered around NL 42-55-37; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M33M1D	126 kW (ERP)	
1261-1289 MHz	MO	17M9Q7N	131 MW (ERP)	
1353-1392 MHz	MO	17M9Q7N	131 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.

Special Conditions:

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by contract numbers 02/643/06, CN07000914, KU/KAF/08/322, 765/07508-01, FA8720-05-C-0002, 5300000040, 84/2550, LATVIATPS77DEC0407. 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.
- (4) For the Syracuse location NL 43-06-43; WL 76-11-18, operations on 1030 MHz will be in accordance with the following: PRR=140 pps for normal operation and 240 pps for low power antenna testing, pulse duration = 0.8 us and ERP = 131 kW peak.
- (5) For the E.Syracuse location NL 43-05-20; WL 76-05-53, operations on 1261-1289 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 3-14 DEG, 46-56 DEG, 180-190 DEG AND 218-228 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (6) Operations on 1335-1348 MHz will be in accordance with the following: PRR=1-1000 pps, pulse duration = 2 us and ERP = 0.5 W peak. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (7) For the E.Syracuse location NL 43-05-20; WL 76-05-53, operations on 1353-1392 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 10-20 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (8) For the S.Syracuse location NL 42-55-37; WL 75-55-27, operations on 1261-1289 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 0-10 DEG, 185-195 DEG AND 255-265 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (9) For the S.Syracuse location NL 42-55-37; WL 75-55-27, operations on 1353-1392 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 2-12 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (10) For the S.Syracuse location NL 42-55-37; WL 75-55-27 and the E.Syracuse location NL 43-05-20; WL 76-05-53, operations on 1030 MHz will be in accordance with the following: PRR=285 pps, pulse duration = 0.8 us and ERP = 126 kW peak.

Special Conditions:

- (11) For the Syracuse location NL 43-06-43; WL 76-11-18, operations on 1261-1289 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 5-15 DEG, 178-188 DEG AND 241-251 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (12) For the Syracuse location NL 43-06-43; WL 76-11-18, operations on 1335-1348 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 0.63 W peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 5-15 DEG, 178-188 DEG AND 241-251 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (13) For the Syracuse location NL 43-06-43; WL 76-11-18, operations on 1353-1392 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 131 MW peak. TRANSMISSIONS ARE REQUIRED TO BE BLANKED BETWEEN 5-15 DEG, 178-188 DEG AND 241-251 DEG REF TO TRUE NORTH. The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper and lower limits of the authorized band.
- (14) For the S.Syracuse location NL 42-55-37; WL 75-55-27, operations on 1335-1348 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 0.5 W peak.
- (15) For the E.Syracuse location NL 43-05-20; WL 76-05-53, operations on 1335-1348 MHz will be in accordance with the following: PRR = 1-1000 pps, pulse duration = 2 us and ERP = 0.5 W peak.