

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WG2XNL

(Call Sign)

0080-EX-PL-2013

(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) McKinney (COLLIN), TX - NL 33-12-51; WL 96-39-05
- (2) Greenville, SC - NL 34-45-20; WL 82-23-00

Frequency Information

McKinney (COLLIN), TX - NL 33-12-51; WL 96-39-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	7M10V0D 9M38V1D	2500 W (ERP)	
1090 MHz	FX	7M10V1D 9M83V1D	1 W (ERP)	

This authorization effective May 06, 2013 and
will expire 3:00 A.M. EST May 01, 2015

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Frequency Information

Greenville, SC - NL 34-45-20; WL 82-23-00

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Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Southwest Coordinator, Ft. Worth, TX. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Southwest Coordinator, Ft. Worth, TX, as necessary to ensure compatibility with existing uses.
- (2) 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 coordination with the FAA Southern Coordinator, Atlanta, GA, as necessary to ensure compatibility with existing uses.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) For antenna location 33°-12'-51" N and 096°-39'-05" W (McKinney, TX) and frequency 1030 MHz the following restrictions apply:
 - a) ERP = 2500 W peak
 - b) Pulse Duration = FX 0.8 usec
 - c) The interrogation rate (PRR) is 232 pps.
 - d) Only mode 2 is allowed to transmit for ground radiated test. All other modes must use direct connect method. No mode 3A/C/4/5/S or TCAS.
 - e) No flight test.
- (5) For antenna location 33°-12'-51" N and 096°-39'-05" W (McKinney, TX) and frequency 1090 MHz the following restrictions apply:
 - a) ERP = 1 W peak
 - b) The interrogation rate (PRR) is 232 pps.
 - c) Pulse Duration = FX 0.45 usec
 - d) Only mode 2 is allowed to transmit for ground radiated test. All other modes must use direct connect method.
 - e) No flight test.
- (6) Stop buzzer is Mr. Scott Henneberry at (972) 837-0399 or Ms. Sussan Sundae at (214) 385-0586.

Special Conditions:

- (7) For antenna location 34°-45'-20" N and 082°-23'-00" W (Greenville, SC) and frequency 1030 MHz, transmission is limited between 270-300 degrees referenced to True North. And the following restrictions apply:
- a) ERP = 2500 W peak
 - b) The interrogation rate (PRR) is 429 pps.
 - c) Pulse Duration = FX 0.8 usec
 - d) Only mode 2 is allowed to transmit for ground radiated test. All other modes must use direct connect method. No mode 4 test allowed
 - e) No flight test.
- (8) For antenna location 34°-45'-20" N and 082°-23'-00" W (Greenville, SC) and frequency 1090 MHz, transmission is limited between 270-300 degrees referenced to True North. And the following restrictions apply:
- a) ERP = 1 W peak
 - b) Pulse Duration = FX 0.45 usec
 - c) Only mode 2 is allowed to transmit for ground radiated test. All other modes must use direct connect method. No mode 4 test allowed.
 - d) No flight test.
- (9) This license is to test designated foreign sales only prior to deliver to the foreign country. Not for the US operation. In case of US airspace operation, an airworthiness certification is required prior to flying to US airspace.