

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WF2XPG

(Call Sign)

0484-EX-PL-2010

(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 33-12-52; WL 96-39-05
- (2) Greenville (GREENVILLE), SC - NL 34-45-20; WL 82-23-00

Frequency Information

McKinney (COLLIN), TX - NL 33-12-52; 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 December 03, 2010 and
will expire 3:00 A.M. EST December 01, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

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

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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) For antenna location 33°-12'-52" N and 096°-39'-05" W (McKinney, TX) and frequency 1030 MHz, transmission is limited between 0-30 degrees referenced to True North.
- (4) 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.
- (5) Operations on 1030 MHz will be in accordance with the following restrictions:
 - a) ERP =2500 W peak
 - b) Pulse Duration = FX 0.8 usec
 - c) The interrogation rate (PRR) may be selected from 300 pps or 450 pps.
 - d) Only modes 1, 2, 3A and C are allowed to transmit. Transmission is PROHIBITED in mode 4.
- (6) Operations on 1090 MHz will be in accordance with the following restrictions:
 - a) ERP = 1 W peak
 - b) Pulse Duration = FX 0.45 usec
 - c) Only modes 1, 2, 3A and C are allowed to transmit. Transmission is PROHIBITED in mode 4.
 - d) Mode C response must indicate altitude below sea level or above 90K feet above ground level. Whenever possible use direct connection via cable to minimize free space radiation.
- (7) This license SUPERSEDES the previously issued license with the same call sign and file number: modification of PRR and PD.