

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

EXPERIMENTAL

(Nature of Service)

WK2XFE

(Call Sign)

XC FX

(Class of Station)

0305-EX-CN-2019

(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) Cazenovia (ONONDAGA), NY - NL 42-55-38; WL 75-55-27

Frequency Information

Cazenovia (ONONDAGA), NY - NL 42-55-38; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	10M0V1D 20M0V1D	2 kW (Output Power)	0.05 %

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

This authorization effective June 19, 2019 and
will expire 3:00 A.M. EST December 30, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (5) OPERATION OF INTERROGATOR SET UPX-41(C) DIGITAL INTERROGATOR, SW VERSION 5.5 OR 5.6, WITH THE CP-2819 CONTROLLER PROCESSOR SW VERSION 4.2.
- (6) THE SYSTEM WILL BE OPERATING WITH ANTENNA FAI-54M, PEAK GAIN 21.5 AND CONTROL PATTERN FOR ISLS (AVERAGE GAIN OF 22.1 DBI ABOVE SUM OUTSIDE OF MAINBEAM).
- (7) SIF PRF=102.4 (1,2,3 AND C) AND MODE 5L1 PRF= 51.2 HZ, AT 6 RPM
SIF PRF=204.8 (1,2,3 AND C) AND MODE 5L1 PRF= 102.4 HZ, AT 12 RPM
TX POWER=2000W
- (8) THE SYSTEM MUST OPERATE WITH A RECEIVER SENSITIVITY LEVEL TO A LEVEL NOT MORE SENSITIVE THAN -84 DBM OR HIGHER.
- (9) RADIATION ARE LIMITED TO AZIMUTHS 60-260 REFERENCE TO TRUE NORTH. ALL OTHER AZIMUTH MUST BE BLANKED.
- (10) THE APPROVAL OF THIS PROPOSAL IS BASED ON AIMS CL 1214402 AND EMAIL FROM AIMS (DOUG) 2/28/2019. PROPER EVALUATION OF THIS CONFIGURATION MUST BE PERFORMED AT THE SPS PRIOR REQUEST AND ADDITIONAL RFA FOR THIS CONFIGURATION.
- (11) 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 numbers: M67854-10-D-2200 , and M67854-16-C-6005. 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.
- (12) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules