

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

EXPERIMENTAL

(Nature of Service)

XE MO

(Class of Station)

WD2XIC

(Call Sign)

0616-EX-CR-2020

(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: See Attachment
- (2) MOBILE: exhibit test areas in GOM and Texas
- (3) MOBILE: United States and its possessions

Frequency Information

MOBILE: See Attachment

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D	2500 W (ERP)	

MOBILE: exhibit test areas in GOM and Texas

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D	2500 W (ERP)	

This authorization effective November 01, 2020 and
will expire 3:00 A.M. EST November 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: United States and its possessions

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1090 MHz	MO	7M00M1D	500 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Subject to coordination prior to operations with the following Area Frequency Coordinators:

Nellis AFB, Nevada, phone (702) 652-3417
 Eglin AFB, Florida, phone (850) 883-7535
 Pax River, Maryland, phone (301) 342-1194
 China Lake, California, phone (760) 939-6948
- (5) This authorization is based on the condition that this equipment is confined for use overseas.
- (6) Operation must be prior coordinated with the FAA Headquarters and all of the FAA regional offices where the intended testing take place.
- (7) The area of operation is limited to those areas indicated on the supporting documents.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Contract No. DP3/4/8/1/2015/52. 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.

Special Conditions:

(9) To use 1030 MHz, the following conditions must be followed:

- a) Pulse repetition rate = 400 pps
- b) Pulse duration = 0.8 us
- c) Modes 1 and 2 are authorized
- d) Mode 3A/C are restricted and defined in coordination documents.
- e) Interrogations must be manually initiated at rate no soon than 1X per 60 seconds. No more than 10 initiated interrogations per flight test per aircraft. Maximum of 2 aircraft may interrogate simultaneously.
- f) Mode-4 and Mode-S transmissions are NOT authorized.
- g) Interrogations are confined to only those interrogations manually initiated by the pilot. Continuous airborne interrogations are not authorized.

(10) To use 1090 MHz, the following conditions must be followed:

- a) Pulse repetition rate= 0-20k pps
- b) Pulse duration = 0.45 us
- c) Reply mode of operation is limited to mode 1, 2, 3A and 3C.
- d) Mode-4 and Mode-S transmissions are NOT authorized.
- e) Interrogations are confined to only those interrogations manually initiated by the pilot. Continuous airborne interrogations are not authorized.