

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WD2XIC

(Call Sign)

0660-EX-ST-2013

(File Number)

NAME Lockheed Martin Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

To test, evaluate, install, demonstrate and delivery of the aircraft.

Station Locations

- (1) MOBILE: States of AR, LA, NM, OK, TX and within the two rectangles defined by 30 N, 98 W; 30 N, 94 W; 26, 30' N, 98 W; 26, 30' N, 94 W; and 30 N, 94 W; 30 N, 89 W; 28 N, 94 W; 28 N, 89 W.
- (2) MOBILE: Operations within the rectangular area near Eglin AFB defined by 32°00'N 88°00'W, 32°00'N 85°00'W, 28°00'N 85°00'W, 28°00'N 88°00'W.
- (3) MOBILE: Operations within the rectangular area at Patuxent River defined by 39°20' N 077°00'W, 39°20' N 075°20'W, 37°40' N 077°00' W, 37°40'N 075°20' W.
- (4) MOBILE: Operations within the rectangular area near China Lake, CA defined by 36° 00' N 118° 35' W, 36° 00' N 116° 20' W, 34° 30' N 116° 20' W and 34° 30' N 118° 35' W.
- (5) MOBILE: Operations in the rectangular area near Tonopah, NV defined by 38° 00' N 117° 05' W, 38° 00' N 114° 50' W, 36° 00' N 114° 50' W and 36° 00' N 117° 05' W.

Frequency Information

MOBILE: States of AR, LA, NM, OK, TX and within the two rectangles defined by 30 N, 98 W; 30 N, 94 W; 26, 30' N, 98 W; 26, 30' N, 94 W; and 30 N, 94 W; 30 N, 89 W; 28 N, 94 W; 28 N, 89 W.

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

This authorization effective July 16, 2013 and
will expire 3:00 A.M. EST November 17, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: States of AR, LA, NM, OK, TX and within the two rectangles defined by 30 N, 98 W; 30 N, 94 W; 26, 30' N, 98 W; 26, 30' N, 94 W; and 30 N, 94 W; 30 N, 89 W; 28 N, 94 W; 28 N, 89 W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	7M50M1D	2500 W (ERP)	
1090 MHz	MO	6M90M1D 7M00M1D	500 W (ERP)	

MOBILE: Operations within the rectangular area near Eglin AFB defined by 32°00'N 88°00'W, 32°00'N 85°00'W, 28°00'N 85°00'W. 28°00'N 88°00'W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D 7M50M1D	2500 W (ERP)	
1090 MHz	MO	6M90M1D 7M00M1D	500 W (ERP)	

MOBILE: Operations within the rectangular area at Patuxent River defined by 39°20' N 077°00'W, 39°20' N 075°20'W, 37°40' N 077°00' W, 37°40'N 075°20' W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D 7M50M1D	2500 W (ERP)	
1090 MHz	MO	6M90M1D 7M00M1D	500 W (ERP)	

Frequency Information

MOBILE: Operations within the rectangular area near China Lake, CA defined by 36° 00' N 118° 35' W, 36° 00' N 116° 20' W, 34° 30' N 116° 20' W and 34° 30' N 118° 35' W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	7M50M1D 6M00M1D	2500 W (ERP)	
1090 MHz	MO	7M00M1D 6M90M1D	500 W (ERP)	

MOBILE: Operations in the rectangular area near Tonopah, NV defined by 38° 00' N 117° 05' W, 38° 00' N 114° 50' W, 36° 00' N 114° 50' W and 36° 00' N 117° 05' W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D 7M50M1D	2500 W (ERP)	
1090 MHz	MO	7M00M1D 6M90M1D	500 W (ERP)	

Special Conditions:

- (1) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (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) Operations on 1030 MHz be confined to only interrogations that are manually initiated by the pilot.
- (5) Operations subject to the pilot allow at least 30 seconds between each initiated set of interrogations if one aircraft is operating and 1 minute between initiating interrogations if two aircraft are operating on 1030 MHz simultaneously.

Special Conditions:

- (6) Operations on 1030 MHz are limited to a maximum of two aircraft. If more than two aircraft are required to operate their interrogations simultaneously, coordination with FAA HQ Spectrum Assignments and Engineering is required to be accomplished.
- (7) The average authorized interrogation rate is 400 interrogations per second.
- (8) The authorized antenna is 5.7 dbi gain and scans +/- 60 degrees off the nose of the aircraft.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by contract number: DP-A3994P6631. 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.
- (10) Stop Buzzer POC is Matthew Nering at (817) 777-8393.