

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

EXPERIMENTAL

(Nature of Service)

WR9XHY

(Call Sign)

XT FX

(Class of Station)

1742-EX-ST-2020

(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:

Applicant is developing a technology under an internal research program.

Station Locations

(1) Orlando (ORANGE), FL - NL 28-22-11; WL 81-04-36

Frequency Information

Orlando (ORANGE), FL - NL 28-22-11; WL 81-04-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2000 MHz	FX	3M00N0N	5.01 W (ERP)	
4000 MHz	FX	3M00N0N	5.01 W (ERP)	
6000 MHz	FX	3M00N0N	5.01 W (ERP)	

This authorization effective November 30, 2020 and
will expire 3:00 A.M. EST January 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Orlando (ORANGE), FL - NL 28-22-11; WL 81-04-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8000 MHz	FX	3M00N0N	5.01 W (ERP)	
10000 MHz	FX	3M00N0N	5.01 W (ERP)	
12000 MHz	FX	3M00N0N	5.01 W (ERP)	
14000 MHz	FX	3M00N0N	5.01 W (ERP)	
16000 MHz	FX	3M00N0N	5.01 W (ERP)	
18000 MHz	FX	3M00N0N	5.01 W (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (5) Coordinate with the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation on 4000 MHz, 6000 MHz and 18000 MHz.
- (6) The stop buzzer POC is Ryan Terry Phone: 703-413-5747.

Special Conditions:

- (7) Prior to commencing any operations in the 2000-2010 MHz frequency band, experimental licensee must notify licensee of GAMMA ACQUISITION L.L.C. (Call sign E060430, POC/Satellite: S2633. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (8) With respect to operations in 3700-4200 MHz band, Licensee should be made aware that they must avoid causing interference to existing FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link:<https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>
- (9) Prior to commencing any operations at the 4000 MHz and 12000 MHz frequency bands, experimental licensee must notify licensee of Intelsat License LLC (Ms. Susan H Crandall, Phone Number: 703-559-7848, E-Mail: susan.crandall@intelsat.com) and SES Americom, Inc.(Ms. Petra A Vorwig, Phone Number: 202-478-7143, E-Mail: petra.vorwig@ses.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.