

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WE2XJZ

(Call Sign)

0161-EX-ST-2009

(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 KU SATCOM technology.

Station Locations

- (1) China Lake (KERN), CA - NL 35-39-23; WL 117-39-39; MOBILE: China Lake, (KERN), CA, within 50 km, centered around NL 35-39-23; WL 117-39-39

Frequency Information

China Lake (KERN), CA - NL 35-39-23; WL 117-39-39; MOBILE: China Lake, (KERN), CA, within 50 km, centered around NL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	5M73G1D 5M73G1D	49.65 W (ERP)	
14-14.5 GHz	MO	5M73G1D	49.65 W (ERP)	

This authorization effective June 15, 2009 and
will expire 3:00 A.M. EST August 01, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) POINTS OF COMMUNICATION: SES Americom AMC-3, SES Americom AMC-5, SES Americom AMC-6 and SES Americom AMC-9 Satellites.
- (4) Lockheed Martin Corporation must coordinate with Western Area Frequency Coordinator at (760) 939-6948 prior to operations for scheduling and deconfliction against other uses of band within AOR.
- (5) No transmissions are permitted between 14.0 GHz and 14.2 GHz within 125 km of White Sands, NM (latitude: 32° 20' 59" N, longitude 106° 36' 31" W and latitude: 32° 32' 40" N, longitude 106° 36' 48" W).
- (6) Licensee shall maintain a pointing error of less than 0.2°, between the orbital location of the target satellite and the axis of the main lobe of the earth station antenna. All emissions from the earth station shall automatically cease within 100 milliseconds if the angle between the orbital location of the target satellite and the axis of the main lobe of the earth station antenna exceeds 0.5°, and transmission will not resume until such angle is less than 0.2°.
- (7) In accordance with Article 4.4 of the ITU Radio Regulations, the operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations.
- (8) Licensee shall comply with the EIRP density criteria set forth in Part 25.222(a)(1) through (a)(4) of the FCC's rules.
- (9) The designated point-of-contact to terminate transmissions if interference occurs is Jordan Thomas at Office (301) 240-6588, Cell (240) 643-5112, Lab (301) 240-5411.