

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

EXPERIMENTAL

(Nature of Service)

WC9XQE

(Call Sign)

XD MO

(Class of Station)

0018-EX-ST-2007

(File Number)

NAME Lockheed Martin

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:

Demonstration of a 18 inch antenna and associated communication equipment to access and track a commercial Ku-Band satellite while on a mobile platform.

Station Locations

- (1) MOBILE: Gaithersburg, Maryland, within 50 km, centered around NL 39-09-17; WL 77-12-57
- (2) MOBILE: 8000 Harbour View Blvd. Suffolk, Virginia, within 20 km, centered around NL 36-53-42; WL 76-25-59
- (3) MOBILE: Creech Air Force Base, Indian Springs, Nevada, within 20 km, centered around NL 36-35-13; WL 115-40-24
- (4) MOBILE: One Space Park Dr., Redonodo Beach, CA 90278, within 16 km, centered around NL 33-53-28; WL 118-22-04
- (5) MOBILE: Hanscom AFB, MA, within 20 km, centered around NL 42-27-33; WL 71-16-21
- (6) MOBILE: Fort Bragg, GA, within 20 km, centered around NL 35-09-14; WL 78-59-56
- (7) MOBILE: Fort Benning, GA, within 20 km, centered around NL 32-21-33; WL 84-58-56
- (8) MOBILE: Fort Gordon, GA, within 20 km, centered around NL 33-25-35; WL 82-08-41
- (9) MOBILE: Sunnyvale, CA, within 9 km, centered around NL 37-24-55; WL 122-02-07

This authorization effective February 20, 2007 and
will expire 3:00 A.M. EST July 16, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Gaithersburg, Maryland, within 50 km, centered around NL 39-09-17; WL 77-12-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: 8000 Harbour View Blvd. Suffolk, Virginia, within 20 km, centered around NL 36-53-42; WL 76-25-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: Creech Air Force Base, Indian Springs, Nevada, within 20 km, centered around NL 36-35-13; WL 115-40-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: One Space Park Dr., Redonodo Beach, CA 90278, within 16 km, centered around NL 33-53-28; WL 118-22-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		

Frequency Information

MOBILE: One Space Park Dr., Redonodo Beach, CA 90278, within 16 km, centered around NL 33-53-28; WL 118-22-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: Hanscom AFB, MA, within 20 km, centered around NL 42-27-33; WL 71-16-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: Fort Bragg, GA, within 20 km, centered around NL 35-09-14; WL 78-59-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		
		4M00G1D		
		4M00G1D		

MOBILE: Fort Benning, GA, within 20 km, centered around NL 32-21-33; WL 84-58-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO		39.81 kW (ERP)	
		4M00G1D		
		4M00G1D		

Frequency Information

MOBILE: Fort Benning, GA, within 20 km, centered around NL 32-21-33; WL 84-58-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M00G1D 4M00G1D	39.81 kW (ERP)	

MOBILE: Fort Gordon, GA, within 20 km, centered around NL 33-25-35; WL 82-08-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M00G1D 4M00G1D 4M00G1D 4M00G1D	39.81 kW (ERP)	

MOBILE: Sunnyvale, CA, within 9 km, centered around NL 37-24-55; WL 122-02-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M00G1D 4M00G1D 4M00G1D 4M00G1D	39.81 kW (ERP)	

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) NTIA requests that prior to operation at Indian Springs, NV, Lockheed Martin accomplishes coordination with the DoD Area Frequency Coordinator at Nellis Air Force Base, NV, telephone (702) 652-3393.
- (3) NTIA requests that prior to operation at Redondo Beach, CA, Lockheed Martin accomplishes coordination with the DoD Western Area Frequency Coordinator at Point Mugu, CA, telephone (805) 989-7983.

Special Conditions:

- (4) POINTS OF COMMUNICATION: SES Americom AMC-2, SES Americom AMC-4, SES Americom AMC-6 and SES Americom AMC-9 Satellites.
- (5) Prior to commencement of operations with each of SES Americom AMC-2, AMC-4, AMC-6 and AMC-9, pursuant to this experimental license, Lockheed Martin shall obtain a certification from SES Americom that SES Americom has notified all satellite operators with co-frequency operations within 6 degrees longitude of each of SES Americom AMC-2, AMC-4, AMC-6 and AMC-9, generally describing the experimental operations authorized herein, including the term thereof, and providing a point of contact for the purpose of resolving any complaints of interference. Lockheed Martin shall obtain a similar certification from SES Americom if, during the term of this experimental license, SES Americom AMC-2, AMC-4, AMC-6 or AMC-9 move orbit locations, or if a satellite operator commences co-frequency operations within 6 degrees longitude of each of SES Americom AMC-2, AMC-4, AMC-6 and AMC-9. If the point of contact receives a complaint of harmful interference, the party receiving the complaint (if not Lockheed Martin) will notify Lockheed Martin, and Lockheed Martin shall immediately cease such operations or adjust such operations to avoid harmful interference. Lockheed Martin will submit a copy of SES Americom's certification(s) to the Commission for incorporation into the record of this file.
- (6) 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.
- (7) NTIA requests that prior to operations at Hanscomb AFB, MA, please contact Andrew Clegg at 703-292-4892 or e-mail ESM@NSF.GOV in order to protect Hancock, NH Very Large Baseline Array.
- (8) At Fort Benning, GA, Lockheed Martin needs to schedule the transmission plan use with DoD Gulf Area Frequency Coordinator at 850-882-4416. The schedule needs to be sent by Thursday COB for the next week so that DoD can approve the schedule and do interference analysis by COB Friday.