

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

EXPERIMENTAL

(Nature of Service)

WC2XVE

(Call Sign)

XD FX MO

(Class of Station)

0137-EX-ST-2012

(File Number)

NAME Boeing Company, The

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 provide expanded coverage of our Boeing Broadband Satellite Network.

Station Locations

- (1) Kent (KING), WA - NL 47-25-08; WL 122-15-10
- (2) Kent (KING), WA - NL 47-25-08; WL 122-15-10
- (3) MOBILE: CONUS, Alaska and Hawaii, plus international airspace
- (4) MOBILE: CONUS, including Alaska and Hawaii, plus international waters
- (5) MOBILE: CONUS, Alaska and Hawaii, U.S. Territories plus International Airspace

Frequency Information

Kent (KING), WA - NL 47-25-08; WL 122-15-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	FX	6M75G7D 20M0G7D 24M3G7D 29M5G7D 32M4G7D	24 kW (ERP)	

This authorization effective March 01, 2012 and
will expire 3:00 A.M. EST September 02, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Kent (KING), WA - NL 47-25-08; WL 122-15-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	FX	11M9G7D	24 kW (ERP)	

Kent (KING), WA - NL 47-25-08; WL 122-15-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	FX	6M75G7D	26 kW (ERP)	
		11M9G7D		
		20M0G7D		
		24M3G7D		
		29M5G7D		
		32M4G7D		

MOBILE: CONUS, Alaska and Hawaii, plus international airspace

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	FX	6M75G7D	24 kW (ERP)	
		20M0G7D		
		24M3G7D		
		29M5G7D		
		32M4G7D		
		11M9G7D		

Frequency Information

MOBILE: CONUS, including Alaska and Hawaii, plus international waters

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	MO	11M9G7D 20M0G7D 24M3G7D 29M5G7D 32M4G7D 6M75G7D	7.2 kW (ERP)	

MOBILE: CONUS, Alaska and Hawaii, U.S. Territories plus International Airspace

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	MO	3M40G7D	24 kW (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) Licensee shall comply with the terms and conditions agreed upon and stated in the application file exhibit titled "International Bureau License Conditions"
- (5) Prior to operating in the 14.0-14.2 GHz frequency band, in the listed locations, Boeing will coordinate with National Aeronautics and Space Administration (NASA) and notify the Commission of the results of that coordination:
 Within 125 km of the NASA TDRSS facilities in Guam (latitude 13° 36' 55" N, longitude 144° 51' 22" E) or,
 Within 125 km of the NASA TDRSS facilities in White Sands, New Mexico (latitude 32° 20' 59" N, longitude 106° 36' 31" W and latitude 32° 32' 40" N, longitude 106°36' 48" W) or,
 Within 125 km of the NASA TDRSS facilities in Blossom Point, Maryland (latitude 38° 25' 44" N, longitude 77°05' 20" W).

Special Conditions:

- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by U.S. Air Force. 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.
- (7) POINTS OF COMMUNICATION: EUTELSAT 7A.
- (8) 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.
- (9) Prior to operating in the 14.47-14.5 GHz frequency band, in the listed locations, Boeing Company will coordinate with the National Academy of Sciences (NSF) and notify the Commission of the results of that coordination:
Within 45 km of the radio observatory on St. Croix, Virgin Islands (latitude 17° 46' N, longitude 64° 35' W);
Within 125 km of the radio observatory on Mauna Kea, Hawaii (latitude 19° 48' N, longitude 155° 28' W);
Within 90 km of the Arecibo Observatory on Puerto Rico (latitude 18° 20' 46" N, longitude 66° 45' 11" W); and
Within 160 km of the radio observatories listed in US203 as observing in the 14.47-14.5 GHz band.
- (10) The designated point-of-contact to terminate transmissions if interference occurs is Ron Guzdar, 206-718-5926.