

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

EXPERIMENTAL

(Nature of Service)

WD2XFK

(Call Sign)

XD MO

(Class of Station)

0703-EX-ST-2004

(File Number)

NAME The Boeing Company

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:

Validation testing of satellite antenna and services in a maritime mobile context throughout CONUS, Alaska and Hawaii, and international waters.

Station Locations

(1) MOBILE: CONUS, Alaska and Hawaii and international waters

Frequency Information

MOBILE: CONUS, Alaska and Hawaii and international waters

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	MO	32M4G7D 24M3G7D	19.5 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) 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.

This authorization effective December 13, 2004 and
will expire 3:00 A.M. EST May 02, 2005

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Operations in the 14.2 - 14.4 GHz band are to be prior coordinated with existing LTTS licensees in accordance with Part 101.103 (d) of the Commission's Rules.
- (4) Stop Buzzer:
Dave Diener
The Boeing Company -- SIF
20403 68th Ave. S, Bldg. 18-61
Kent, WA 98032
Ph: 253-773-2595
- (5) Earth station operations are limited to U.S.-registered vessels only.
- (6) When operations are within 11 km radius of any of the following locations, NASA requests the licensee contact:

Ames Research Center Spectrum Manager

Bill Notley Voice: 650 604 1415 Fax: 650 604 0997 Cell: 650 207 2227
MOFFETT FIELD ELEV: ~50 FT AMSL Lat: 37° 24' 44" N Lon: 122° 3' 10" W
bnotley@mail.arc.nasa.gov

Dryden Flight Research Center Spectrum Manager

Rich Rood Voice: 661 276 2138 Fax: 661 276 2842
EDWARDS AFB ELEV: ~2320 FT AMSL Lat: 35° 0' 21" N Lon: 117° 53' 0" W
rich.rood@dfrc.nasa.gov

Jet Propulsion Laboratory Alternate Spectrum Manager

Paul Robbins (Alt Mgr) Voice: 818 354-4953 Fax: 818 393-4643
Pager: Not applicable Home: 661 242 8121
PASADENA ELEV: ~1535 FT AMSL Lat: 34° 9' 19" N Lon: 118° 9' 11" W
Paul.ROBBINS@JPL.NASA.gov

- (7) Licensee must notify adjacent satellite operators within six degrees prior to operation.
- (8) Licensee should be aware that the FAA uses 14-14.5 GHz for its satellite communications.
- (9) When operations are within 125 km radius of any of the following two NASA locations, NASA requests the licensee contact:

(1) White Sands Test Facility Spectrum Manager

Cliff Madrid Voice: 505 524 5158 Fax: 505 524 5260
Pager: 505 524 5085 Enter 5158 then your tel number, then # symbol
White Sands Test Facility ELEV: ~1471 FT AMSL Lat: 32° 18' 40" N Lon: 106° 46' 37" W
cmadrid@wstf.nasa.gov

For GUAM [133655N 1445122E]:

(2) Goddard Space Flight Center Spectrum Manager

Roger Porter Voice: 1 301 286 5089 Fax: 1 301 286 1724
GREENBELT ELEV: ~150 FT AMSL Lat: 38° 59' 22" N Lon: 76° 51' 13" W
Roger.d.Porter@nasa.gov

Special Conditions:

- (10) Operation shall be performed on a Non-Interference Basis (NIB) to NASA missions that are either co-channel or adjacent channel to this proposal.