

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

EXPERIMENTAL

(Nature of Service)

WC9XXI

(Call Sign)

XD MO

(Class of Station)

0079-EX-ST-2008

(File Number)

NAME SWE-DISH Satellite Communications, Inc.

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 the capabilities of transportable earth station in meeting homeland security and other critical communications needs to potential military and civilian customers.

Station Locations

(1) MOBILE: US

Frequency Information

MOBILE: US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	MO	2M00G7W	28 W (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) POINT OF COMMUNICATION: Intelsat Horizon 1.

This authorization effective February 27, 2008 and
will expire 3:00 A.M. EST May 27, 2008

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) 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.
- (4) Prior to commencement of operation with any satellite listed as a point of communication pursuant to this special temporary authority (STA), SWE-DISH Satellite Communications, Inc. shall obtain certifications from the owners of the satellites used as points of communication that the respective owners have notified all satellite operators with co-frequency operations within 6 degrees longitude of the respective satellites used as points of communication, 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. SWE-DISH Satellite Communications, Inc. shall obtain a similar certification from the owner of any satellite used as a point of communication if, during the term of this STA, a new or different satellite operator commences co-frequency operations within 6 degrees longitude of any satellite used as a point of communication. If the point of contact receives a complaint of harmful interference, the party receiving the complaint (if not SWE-DISH Satellite Communications, Inc.) will notify SWE-DISH Satellite Communications, Inc., and SWE-DISH Satellite Communications, Inc. shall immediately cease such operations or adjust such operations to avoid harmful interference. SWE-DISH Satellite Communications, Inc. will submit a copy of Intelsat's certification(s) to the Commission for incorporation into the record of this file.
- (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) Prior to operating in the 14.47-14.5 GHz frequency band, in the listed locations, SWE-DISH Satellite Communications, Inc. 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.
- (7) 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°.
- (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) No transmissions are permitted between 14.0 GHz and 14.2 GHz within 125 km of Blossom Point, MD (latitude: 38° 25' 44" N, longitude 77° 05' 20" W)
- (10) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Mark Steel, at (703) 622-2866.

Special Conditions:

(11) National Science Foundation (NSF) requests that licensee:

1) Coordinate operation at the Taunton, MA site with the National Radio Astronomy Observatory's VLBA site at Hancock, NH. (POC Mr. Dan Mertely at Socorro, NM, Phone: 505- 835-7027 and e-mail: dmertely@nrao.edu).

2) Coordinate operation at the Fredericksburg, VA site with Wes Sizemore at Green Bank. (Phone: 304-456-2107, e-mail:wsizemor@nrao.edu).