

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

EXPERIMENTAL

(Nature of Service)

WC9XSP

(Call Sign)

XD MO

(Class of Station)

0518-EX-ST-2006

(File Number)

NAME Raytheon 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:

Ku Band satellite communications via flat panel array technology will be employed to determine its effectiveness for Communications-On-The-Move (COTM) applications.

Station Locations

(1) MOBILE: Marlborough, MA, within 16 km, centered around NL 42-20-55; WL 71-29-18

Frequency Information

MOBILE: Marlborough, MA, within 16 km, centered around NL 42-20-55; WL 71-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14500 MHz	MO	200KG2W	25100 W (ERP)	1.0E-7 %

Special Conditions:

- (1) NTIA objects to the use of the frequency band 13750-14000 MHz.
- (2) 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.

This authorization effective September 12, 2006 and
will expire 3:00 A.M. EST February 01, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Prior to commencement of operations with each of Intelsat 903 and PanAmSat Galaxy 10R, pursuant to this experimental license, Raytheon shall obtain a certification from Intelsat and PanAmSat that Intelsat and PanAmSat has notified all satellite operators with co-frequency operations within 6 degrees longitude of each of Intelsat 903 and PanAmSat Galaxy 10R, 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. Raytheon shall obtain a similar certification from Intelsat and PanAmSat if, during the term of this experimental license, Intelsat 903 and PanAmSat Galaxy 10R move orbit locations, or if a satellite operator commences co-frequency operations within 6 degrees longitude of each of Intelsat 903 and PanAmSat Galaxy 10R. If the point of contact receives a complaint of harmful interference, the party receiving the complaint (if not Raytheon) will notify Raytheon, and Raytheon shall immediately cease such operations or adjust such operations to avoid harmful interference. Raytheon will submit a copy of Intelsat's and PanAmSat's certification(s) to the Commission for incorporation into the record of this file.
- (4) POINTS OF COMMUNICATION: Intelsat 903 and PanAmSat Galaxy 10R.