

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

EXPERIMENTAL

(Nature of Service)

WG9XGJ

(Call Sign)

XT MO

(Class of Station)

0568-EX-ST-2012

(File Number)

NAME Universities Space Research Association

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:

The purpose is to demonstrate the feasibility of using satellite phone constellations to communicate with small satellites in low earth orbit.

Station Locations

(1) MOBILE: Low Earth Orbit, 270 km altitude, 51 Degree Inclination

Frequency Information

MOBILE: Low Earth Orbit, 270 km altitude, 51 Degree Inclination

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1618.725-1636.5 MHz	MO	41K7Q7W	1.6 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The Phonesat operator (USRA) immediately notify the FCC upon completion of operations and cessation of emissions as described in the draft PN.

This authorization effective April 14, 2013 and
will expire 3:00 A.M. EST April 22, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Universities Space Research Association for Space must contact and inform Dr. Andrew Clegg of NSF at 703-292-4892 of the two week time period that is planned for the demonstration.