

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

EXPERIMENTAL

(Nature of Service)

WI9XDO

(Call Sign)

XT FX MO

(Class of Station)

1177-EX-ST-2014

(File Number)

NAME Raytheon Technical Services 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:

The purpose of this experiment is to develop and test the ground station network and confirm how that network will operate with the satellites, when the satellites are launched. See details in

Station Locations

- (1) Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53
- (2) Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48
- (3) Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26
- (4) MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11
- (5) MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency Information

Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	

This authorization effective January 15, 2015 and
will expire 3:00 A.M. EST July 15, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Aurora (ARAPAHOE), CO - NL 39-43-05; WL 104-47-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	
437.5 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.5 MHz	FX	25K0G1D	933 W (ERP)	

Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	FX	25K0G1D	933 W (ERP)	
437.275 MHz	FX	25K0G1D	933 W (ERP)	
437.3 MHz	FX	25K0G1D	933 W (ERP)	
437.325 MHz	FX	25K0G1D	933 W (ERP)	
437.35 MHz	FX	25K0G1D	933 W (ERP)	
437.375 MHz	FX	25K0G1D	933 W (ERP)	
437.4 MHz	FX	25K0G1D	933 W (ERP)	
437.425 MHz	FX	25K0G1D	933 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-08; WL 110-56-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.45 MHz	FX	25K0G1D	933 W (ERP)	
437.475 MHz	FX	25K0G1D	933 W (ERP)	
437.5 MHz	FX	25K0G1D	933 W (ERP)	

MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	MO	25K0G1D	933 W (ERP)	
437.275 MHz	MO	25K0G1D	933 W (ERP)	
437.3 MHz	MO	25K0G1D	933 W (ERP)	
437.325 MHz	MO	25K0G1D	933 W (ERP)	
437.35 MHz	MO	25K0G1D	933 W (ERP)	
437.375 MHz	MO	25K0G1D	933 W (ERP)	

Frequency Information

MOBILE: moves along mountain ridges N, S, & W of center, within 40 km, centered around NL 40-08-24; WL 105-38-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.4 MHz	MO	25K0G1D	933 W (ERP)	
437.425 MHz	MO	25K0G1D	933 W (ERP)	
437.45 MHz	MO	25K0G1D	933 W (ERP)	
437.475 MHz	MO	25K0G1D	933 W (ERP)	
437.5 MHz	MO	25K0G1D	933 W (ERP)	

MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25 MHz	MO	25K0G1D	933 W (ERP)	
437.275 MHz	MO	25K0G1D	933 W (ERP)	
437.3 MHz	MO	25K0G1D	933 W (ERP)	
437.325 MHz	MO	25K0G1D	933 W (ERP)	

Frequency Information

MOBILE: within 2 mile radius of coordinates pointed SSW, within 3.2 km, centered around NL 32-27-03; WL 110-47-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.35 MHz	MO	25K0G1D	933 W (ERP)	
437.375 MHz	MO	25K0G1D	933 W (ERP)	
437.4 MHz	MO	25K0G1D	933 W (ERP)	
437.425 MHz	MO	25K0G1D	933 W (ERP)	
437.45 MHz	MO	25K0G1D	933 W (ERP)	
437.475 MHz	MO	25K0G1D	933 W (ERP)	
437.5 MHz	MO	25K0G1D	933 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) 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.
- (3) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization Under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.