

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

EXPERIMENTAL

(Nature of Service)

WO9XBL

(Call Sign)

XT FX MO

(Class of Station)

1783-EX-ST-2019

(File Number)

NAME Stara Corporation

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:

Transfer data to support the NOOR-1 experiment.

Station Locations

- (1) MOBILE: LEO 400 km S Band Down
- (2) MOBILE: LEO 400 km UHF
- (3) Chapel Hill (ORANGE), NC - NL 35-55-32; WL 79-10-46
- (4) MOBILE: LEO 400 km S Band Cross Link

Frequency Information

MOBILE: LEO 400 km S Band Down

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2450 MHz	MO	250KF2D	1.89 W (ERP)	0.001 %

This authorization effective November 25, 2019 and
will expire 3:00 A.M. EST May 25, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: LEO 400 km UHF

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.2 MHz	MO	30K0F1D	0.75 W (ERP)	0.001 %

Chapel Hill (ORANGE), NC - NL 35-55-32; WL 79-10-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.2 MHz	FX	30K0F1D	726 W (ERP)	0.0011 %

MOBILE: LEO 400 km S Band Cross Link

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2255 MHz	MO	85K0F2D	0.75 W (ERP)	0.0011 %

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) Due to potential impact to AF radar operations in the UHF band, Stara Corporation is required to provide stop buzzer POC, orbital and schedule updates to AF at AFSPC.A6CE.SMO@us.af.mil., two weeks prior to operation.
- (4) All transmissions in the band 2200-2290 MHz shall comply with national and international power flux-density limits, except in cases where expected exceedances are pre-coordinated with and agreed-upon by Federal Agencies
- (5) One week prior to operation, Stara Corporation is required to provide the AF (jimmy.nguyen@us.af.mil) with the stop buzzer POC for operation on the 2255 MHz crosslink.
- (6) Crosslinking between NOOR-1A/1B satellites may not occur while over Fairbanks, AK to protect DMSP down link on 2252.5 MHz.

Special Conditions:

- (7) Stara Corporation shall be aware that this authorization is without prejudice to any determination that may be made regarding any future requests for operations in this frequency band, but Stara Corporation should have no expectations of approval of future submissions requesting operations in the 2200-2290 MHz frequency band.
- (8) Stara Corporation shall coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on 2450 MHz and 450.2 MHz.
- (9) Stara Corporation shall coordinate with the affected Fixed Microwave Service licensees prior to operation on 2450 MHz.