

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WH2XCI

(Call Sign)

0660-EX-ST-2016

(File Number)

NAME The MITRE 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:

Test a series of over-the-air (OTA) MIMO.

Station Locations

- (1) Anchorage, AK - NL 61-14-39; WL 149-48-40
- (2) Barrow, AK - NL 71-17-27; WL 156-46-54

Frequency Information

Anchorage, AK - NL 61-14-39; WL 149-48-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.32-6.525 MHz	FX	100KQ3N 205KQ3N 205KW7D 205KD7D	200 W (ERP)	0.001 %
6.685-7.3 MHz	FX	615KD7D 615KW7D 615KQ3N	200 W (ERP)	0.001 %

This authorization effective June 20, 2016 and
will expire 3:00 A.M. EST June 25, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Anchorage, AK - NL 61-14-39; WL 149-48-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.685-7.3 MHz	FX	100KQ3N	200 W (ERP)	0.001 %
7.4-8.25 MHz	FX	850KD7D 850KW7D 850KQ3N 100KQ3N	200 W (ERP)	0.001 %
8.45-8.815 MHz	FX	365KD7D 365KQ3N 365KW7D	200 W (ERP)	0.001 %
8.965-9.4 MHz	FX	435KD7D 435KQ3N 435KW7D	200 W (ERP)	0.001 %
10.1-11 MHz	FX	900KD7D 900KQ3N 900KW7D	200 W (ERP)	0.001 %

Barrow, AK - NL 71-17-27; WL 156-46-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.32-6.525 MHz	FX	205KD7D 205KW7D 205KQ3N	200 W (ERP)	0.001 %

Frequency Information

Barrow, AK - NL 71-17-27; WL 156-46-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.685-7.3 MHz	FX	615KD7D 615KW7D 615KQ3N	200 W (ERP)	0.001 %
7.4-8.25 MHz	FX	850KD7D 850KW7D 850KQ3N	200 W (ERP)	0.001 %
8.45-8.815 MHz	FX	365KD7D 365KQ3N 365KW7D	200 W (ERP)	0.001 %
8.965-9.4 MHz	FX	435KQ3N 435KW7D 435KD7D	200 W (ERP)	0.001 %
10.1-11 MHz	FX	900KD7D 900KQ3N 900KW7D	200 W (ERP)	0.001 %

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.

Special Conditions:

- (3) Operation is not permitted in the following frequency bands:
6000-6200 kHz
6525-6685 kHz
7300-7400 kHz
8815-8965 kHz
9400-9900 kHz
10005-10100 kHz
- (4) The frequency 8459.0 kHz (± 2 kHz) must not be utilized as it has been designated for Weather Facsimile in the State of Alaska
- (5) As per NTIA Manual 8.2.29 and ITU Regulation Appendix 17, the frequency 6517.4 kHz (± 2 kHz) is designated a Search and Rescue frequency and as such shall be protected by any possible interference.
- (6) The Coast Guard Air to Ground frequencies below must be protected for Safety of Flight issues (± 2 kHz):
- K6710.4 K6743.4 K7419.5 K7630.5 K7669.5 K7736.0 K7743.0
K7747.0 K7775.0 K7793.0 K7821.0 K8981.4 K8984.4 K9035.4
K9038.4
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number W15P7T-15-C-0015. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.