

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WH2XCI

(Call Sign)

0451-EX-CR-2018

(File Number)

NAME The MITRE Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Bedford (MIDDLESEX), MA - NL 42-30-12; WL 71-14-12
- (2) Fairborn (GREENE), OH - NL 39-47-27; WL 83-59-58
- (3) Colorado Springs (EL PASO), CO - NL 38-48-59; WL 104-45-38
- (4) Stockbridge (MADISON), NY - NL 43-01-45; WL 75-39-04
- (5) McLean (FAIRFAX), VA - NL 38-55-25; WL 77-12-21
- (6) Sullivan, IN - NL 39-07-14; WL 87-21-30
- (7) Barrow (North Slope), AK - NL 71-19-23; WL 156-36-43
- (8) Fairbanks (Anchorage), AK - NL 65-07-04; WL 147-25-57
- (9) Rome (ONEIDA), NY - NL 43-13-21; WL 75-24-33

Frequency Information

Bedford (MIDDLESEX), MA - NL 42-30-12; WL 71-14-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-4100 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
4210-4650 kHz	FX	294KD7D 294KW7D	200 W (ERP)	0.01 %

This authorization effective October 01, 2018 and
will expire 3:00 A.M. EST October 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Bedford (MIDDLESEX), MA - NL 42-30-12; WL 71-14-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KQ3N	200 W (ERP)	0.01 %
4700-4995 kHz	FX	294KQ3N 294KW7D 294KD7D	200 W (ERP)	0.01 %
5005-6210 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200.1 W (ERP)	0.01 %
6320-8250 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
10101-11275 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
11400-12200 kHz	FX	799KQ3N 799KW7D 799KD7D	200 W (ERP)	0.01 %

Frequency Information

Bedford (MIDDLESEX), MA - NL 42-30-12; WL 71-14-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500-14990 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
15010-16000 kHz	FX	750KQ3N 750KW7D 750KD7D	200 W (ERP)	0.01 %
16000-17900 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
17970-19995 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %
20010-21924 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00W7D 1M00Q3N	200 W (ERP)	0.01 %

Frequency Information

Bedford (MIDDLESEX), MA - NL 42-30-12; WL 71-14-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25010-28000 kHz	FX	1M00D7D	200 W (ERP)	0.01 %

Fairborn (GREENE), OH - NL 39-47-27; WL 83-59-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-4100 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
4210-4650 kHz	FX	294KD7D 294KW7D 294KQ3N	200 W (ERP)	0.01 %
4700-4995 kHz	FX	294KD7D 294KW7D 294KQ3N	200 W (ERP)	0.01 %
5005-6210 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200.1 W (ERP)	0.01 %
6320-8250 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %

Frequency Information

Fairborn (GREENE), OH - NL 39-47-27; WL 83-59-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8970-9995 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
10200-11275 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
11400-12200 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
15010-16000 kHz	FX	750KQ3N 750KW7D 750KD7D	200 W (ERP)	0.01 %
16000-17900 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
17970-19995 kHz	FX	1M00D7D 1M00Q3N	200 W (ERP)	0.01 %

Frequency Information

Fairborn (GREENE), OH - NL 39-47-27; WL 83-59-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17970-19995 kHz	FX	1M00W7D	200 W (ERP)	0.01 %
20005-21924 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %
22000-28000 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %

Colorado Springs (EL PASO), CO - NL 38-48-59; WL 104-45-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-4100 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
4210-4650 kHz	FX	294KQ3N 294KW7D 294KD7D	200 W (ERP)	0.01 %
4700-4995 kHz	FX	294KQ3N 294KW7D 294KD7D	200 W (ERP)	0.01 %

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-59; WL 104-45-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5005-6210 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200.1 W (ERP)	0.01 %
6320-8250 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
10200-11275 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
11400-12200 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
15010-16000 kHz	FX	750KQ3N 750KW7D	200 W (ERP)	0.01 %

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-59; WL 104-45-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15010-16000 kHz	FX	750KD7D	200 W (ERP)	0.01 %
16000-17900 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %
17970-19995 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %
20010-21924 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %

Frequency Information

Stockbridge (MADISON), NY - NL 43-01-45; WL 75-39-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-4100 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
4210-4650 kHz	FX	294KD7D 294KW7D 294KQ3N	200 W (ERP)	0.01 %
4700-4995 kHz	FX	294KD7D 294KW7D 294KQ3N	200 W (ERP)	0.01 %
5005-6210 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200.1 W (ERP)	0.01 %
6320-8250 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
10200-11275 kHz	FX	799KQ3N 799KW7D	200 W (ERP)	0.01 %

Frequency Information

Stockbridge (MADISON), NY - NL 43-01-45; WL 75-39-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10200-11275 kHz	FX	799KD7D	200 W (ERP)	0.01 %
11400-12200 kHz	FX	799KQ3N 799KW7D 799KD7D	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
15010-16000 kHz	FX	750KQ3N 750KW7D 750KD7D	200 W (ERP)	0.01 %
16000-17900 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
17970-19995 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
20010-21924 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %

Frequency Information

Stockbridge (MADISON), NY - NL 43-01-45; WL 75-39-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
22000-24990 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00W7D 1M00Q3N 1M00D7D	200 W (ERP)	0.01 %

McLean (FAIRFAX), VA - NL 38-55-25; WL 77-12-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-4100 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
4210-4650 kHz	FX	294KQ3N 294KW7D 294KD7D	200 W (ERP)	0.01 %
4700-4995 kHz	FX	294KQ3N 294KW7D 294KD7D	200 W (ERP)	0.01 %
5005-6210 kHz	FX	1M00Q3N 1M00W7D	200.1 W (ERP)	0.01 %

Frequency Information

McLean (FAIRFAX), VA - NL 38-55-25; WL 77-12-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5005-6210 kHz	FX	1M00D7D	200.1 W (ERP)	0.01 %
6320-8250 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
10200-11275 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
11400-12200 kHz	FX	799KD7D 799KW7D 799KQ3N	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00W7D 1M00D7D	200 W (ERP)	0.01 %
15010-16000 kHz	FX	750KQ3N 750KW7D 750KD7D	200 W (ERP)	0.01 %

Frequency Information

McLean (FAIRFAX), VA - NL 38-55-25; WL 77-12-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16000-17900 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
17970-19995 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
20010-21924 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00D7D 1M00Q3N 1M00W7D	200 W (ERP)	0.01 %

Sullivan, IN - NL 39-07-14; WL 87-21-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KQ3N 294KD7D	200 W (ERP)	0.01 %

Frequency Information

Sullivan, IN - NL 39-07-14; WL 87-21-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KW7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %

Barrow (North Slope), AK - NL 71-19-23; WL 156-36-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KQ3N 294KD7D 294KW7D	200 W (ERP)	0.01 %

Frequency Information

Barrow (North Slope), AK - NL 71-19-23; WL 156-36-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8970-9995 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %

Fairbanks (Anchorage), AK - NL 65-07-04; WL 147-25-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KQ3N 294KD7D 294KW7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00D7D	200 W (ERP)	0.01 %

Frequency Information

Fairbanks (Anchorage), AK - NL 65-07-04; WL 147-25-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8970-9995 kHz	FX	1M00W7D	200 W (ERP)	0.01 %
13500-14990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %

Rome (ONEIDA), NY - NL 43-13-21; WL 75-24-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	FX	294KQ3N 294KD7D 294KW7D	200 W (ERP)	0.01 %
8970-9995 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %

Frequency Information

Rome (ONEIDA), NY - NL 43-13-21; WL 75-24-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500-14990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
22000-24990 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %
25010-28000 kHz	FX	1M00Q3N 1M00D7D 1M00W7D	200 W (ERP)	0.01 %

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation is subject to prior coordination with the local SBE frequency coordinator prior to operation in 20010-28000 KHz.