

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WJ9XOG

(Call Sign)

1267-EX-ST-2016

(File Number)

NAME University of Oklahoma

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:

Radar testing

The purpose of operation is to demonstrate a prototype data collection system showing the

Station Locations

- (1) Lawton (COMANCHE), OK - NL 34-44-43; WL 98-31-55
- (2) Norman (CLEVELAND), OK - NL 35-12-38; WL 97-26-24
- (3) Lawton (COMANCHE), OK - NL 34-47-44; WL 98-26-50
- (4) Norman (CLEVELAND), OK - NL 35-10-54; WL 97-26-25

Frequency Information

Lawton (COMANCHE), OK - NL 34-44-43; WL 98-31-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8-8.2 GHz	FX	200MQ3N	150 kW (ERP)	
8.2-8.4 GHz	FX	200MQ3N	150 kW (ERP)	

This authorization effective August 16, 2016 and
will expire 3:00 A.M. EST November 16, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Lawton (COMANCHE), OK - NL 34-44-43; WL 98-31-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.4-8.6 GHz	FX	200MQ3N	150 kW (ERP)	
8.6-8.8 GHz	FX	200MQ3N	150 kW (ERP)	
8.8-9 GHz	FX	200MQ3N	150 kW (ERP)	
9-9.2 GHz	FX	200MQ3N	150 kW (ERP)	
9.2-9.4 GHz	FX	200MQ3N	150 kW (ERP)	
9.4-9.6 GHz	FX	200MQ3N	150 kW (ERP)	
9.6-9.8 GHz	FX	200MQ3N	150 kW (ERP)	
9.8-10 GHz	FX	200MQ3N	150 kW (ERP)	
10-10.2 GHz	FX	200MQ3N	150 kW (ERP)	
10.2-10.4 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Lawton (COMANCHE), OK - NL 34-44-43; WL 98-31-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.4-10.6 GHz	FX	200MQ3N	150 kW (ERP)	
10.6-10.8 GHz	FX	200MQ3N	150 kW (ERP)	
10.8-11 GHz	FX	200MQ3N	150 kW (ERP)	
11-11.2 GHz	FX	200MQ3N	150 kW (ERP)	
11.2-11.4 GHz	FX	200MQ3N	150 kW (ERP)	
11.4-11.6 GHz	FX	200MQ3N	150 kW (ERP)	
11.6-11.8 GHz	FX	200MQ3N	150 kW (ERP)	
11.8-12 GHz	FX	200MQ3N	150 kW (ERP)	
12-12.2 GHz	FX	200MQ3N	150 kW (ERP)	
12.8-13 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Lawton (COMANCHE), OK - NL 34-44-43; WL 98-31-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13-13.2 GHz	FX	200MQ3N	150 kW (ERP)	
13.2-13.4 GHz	FX	200MQ3N	150 kW (ERP)	
13.4-13.6 GHz	FX	200MQ3N	150 kW (ERP)	
13.6-13.8 GHz	FX	200MQ3N	150 kW (ERP)	
13.8-14 GHz	FX	200MQ3N	150 kW (ERP)	

Norman (CLEVELAND), OK - NL 35-12-38; WL 97-26-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8-8.2 GHz	FX	200MQ3N	150 kW (ERP)	
8.2-8.4 GHz	FX	200MQ3N	150 kW (ERP)	
8.4-8.6 GHz	FX	200MQ3N	150 kW (ERP)	
8.6-8.8 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Norman (CLEVELAND), OK - NL 35-12-38; WL 97-26-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.8-9 GHz	FX	200MQ3N	150 kW (ERP)	
9-9.2 GHz	FX	200MQ3N	150 kW (ERP)	
9.2-9.4 GHz	FX	200MQ3N	150 kW (ERP)	
9.4-9.6 GHz	FX	200MQ3N	150 kW (ERP)	
9.6-9.8 GHz	FX	200MQ3N	150 kW (ERP)	
9.8-10 GHz	FX	200MQ3N	150 kW (ERP)	
10-10.2 GHz	FX	200MQ3N	150 kW (ERP)	
10.2-10.4 GHz	FX	200MQ3N	150 kW (ERP)	
10.4-10.6 GHz	FX	200MQ3N	150 kW (ERP)	
10.6-10.8 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Norman (CLEVELAND), OK - NL 35-12-38; WL 97-26-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.8-11 GHz	FX	200MQ3N	150 kW (ERP)	
11-11.2 GHz	FX	200MQ3N	150 kW (ERP)	
11.2-11.4 GHz	FX	200MQ3N	150 kW (ERP)	
11.4-11.6 GHz	FX	200MQ3N	150 kW (ERP)	
11.6-11.8 GHz	FX	200MQ3N	150 kW (ERP)	
11.8-12 GHz	FX	200MQ3N	150 kW (ERP)	
12-12.2 GHz	FX	200MQ3N	150 kW (ERP)	
12.8-13 GHz	FX	200MQ3N	150 kW (ERP)	
13-13.2 GHz	FX	200MQ3N	150 kW (ERP)	
13.2-13.4 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Norman (CLEVELAND), OK - NL 35-12-38; WL 97-26-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.4-13.6 GHz	FX	200MQ3N	150 kW (ERP)	
13.6-13.8 GHz	FX	200MQ3N	150 kW (ERP)	
13.8-14 GHz	FX	200MQ3N	150 kW (ERP)	

Lawton (COMANCHE), OK - NL 34-47-44; WL 98-26-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8-8.2 GHz	FX	200MQ3N	150 kW (ERP)	
8.2-8.4 GHz	FX	200MQ3N	150 kW (ERP)	
8.4-8.6 GHz	FX	200MQ3N	150 kW (ERP)	
8.6-8.8 GHz	FX	200MQ3N	150 kW (ERP)	
8.8-9 GHz	FX	200MQ3N	150 kW (ERP)	
9-9.2 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Lawton (COMANCHE), OK - NL 34-47-44; WL 98-26-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.4 GHz	FX	200MQ3N	150 kW (ERP)	
9.4-9.6 GHz	FX	200MQ3N	150 kW (ERP)	
9.6-9.8 GHz	FX	200MQ3N	150 kW (ERP)	
9.8-10 GHz	FX	200MQ3N	150 kW (ERP)	
10-10.2 GHz	FX	200MQ3N	150 kW (ERP)	
10.2-10.4 GHz	FX	200MQ3N	150 kW (ERP)	
10.4-10.6 GHz	FX	200MQ3N	150 kW (ERP)	
10.6-10.8 GHz	FX	200MQ3N	150 kW (ERP)	
10.8-11 GHz	FX	200MQ3N	150 kW (ERP)	
11-11.2 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Lawton (COMANCHE), OK - NL 34-47-44; WL 98-26-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.2-11.4 GHz	FX	200MQ3N	150 kW (ERP)	
11.4-11.6 GHz	FX	200MQ3N	150 kW (ERP)	
11.6-11.8 GHz	FX	200MQ3N	150 kW (ERP)	
11.8-12 GHz	FX	200MQ3N	150 kW (ERP)	
12-12.2 GHz	FX	200MQ3N	150 kW (ERP)	
12.8-13 GHz	FX	200MQ3N	150 kW (ERP)	
13-13.2 GHz	FX	200MQ3N	150 kW (ERP)	
13.2-13.4 GHz	FX	200MQ3N	150 kW (ERP)	
13.4-13.6 GHz	FX	200MQ3N	150 kW (ERP)	
13.6-13.8 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Lawton (COMANCHE), OK - NL 34-47-44; WL 98-26-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.8-14 GHz	FX	200MQ3N	150 kW (ERP)	

Norman (CLEVELAND), OK - NL 35-10-54; WL 97-26-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8-8.2 GHz	FX	200MQ3N	150 kW (ERP)	
8.2-8.4 GHz	FX	200MQ3N	150 kW (ERP)	
8.4-8.6 GHz	FX	200MQ3N	150 kW (ERP)	
8.6-8.8 GHz	FX	200MQ3N	150 kW (ERP)	
8.8-9 GHz	FX	200MQ3N	150 kW (ERP)	
9-9.2 GHz	FX	200MQ3N	150 kW (ERP)	
9.2-9.4 GHz	FX	200MQ3N	150 kW (ERP)	
9.4-9.6 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Norman (CLEVELAND), OK - NL 35-10-54; WL 97-26-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.6-9.8 GHz	FX	200MQ3N	150 kW (ERP)	
9.8-10 GHz	FX	200MQ3N	150 kW (ERP)	
10-10.2 GHz	FX	200MQ3N	150 kW (ERP)	
10.2-10.4 GHz	FX	200MQ3N	150 kW (ERP)	
10.4-10.6 GHz	FX	200MQ3N	150 kW (ERP)	
10.6-10.8 GHz	FX	200MQ3N	150 kW (ERP)	
10.8-11 GHz	FX	200MQ3N	150 kW (ERP)	
11-11.2 GHz	FX	200MQ3N	150 kW (ERP)	
11.2-11.4 GHz	FX	200MQ3N	150 kW (ERP)	
11.4-11.6 GHz	FX	200MQ3N	150 kW (ERP)	

Frequency Information

Norman (CLEVELAND), OK - NL 35-10-54; WL 97-26-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.6-11.8 GHz	FX	200MQ3N	150 kW (ERP)	
11.8-12 GHz	FX	200MQ3N	150 kW (ERP)	
12-12.2 GHz	FX	200MQ3N	150 kW (ERP)	
12.8-13 GHz	FX	200MQ3N	150 kW (ERP)	
13-13.2 GHz	FX	200MQ3N	150 kW (ERP)	
13.2-13.4 GHz	FX	200MQ3N	150 kW (ERP)	
13.4-13.6 GHz	FX	200MQ3N	150 kW (ERP)	
13.6-13.8 GHz	FX	200MQ3N	150 kW (ERP)	
13.8-14 GHz	FX	200MQ3N	150 kW (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.

Special Conditions:

- (2) Prior to operation on satellite band frequencies, licensee must coordinate with stations authorized to operate in these frequency bands that are located within a 25 mile radius of the transmitter.
- (3) Licensee may not operate in the Direct Broadcast Service frequency band 12.2-12.7 GHz.
- (4) Prior to operation in 12.7-13.4 GHz band, licensee must successfully coordinate with the local SBE frequency coordinator in each proposed venue.
- (5) Prior to operation in 10.4-11.8 GHz and 12.2-13.4 GHz bands, licensee must successfully coordinate with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (6) The following conditions apply to avoid interference to government operations.
 - 1.Applicant must notch 9.0-9.2 GHz to protect ASDE/PAR operations.
 - 2.Applicant must notch 10.4-10.6 GHz to protect operations at Tinker AFB.
 - 3.Applicant must notch 10 to 10.5 GHz as pulse radar is authorized in accordance with US128
 - 4.Applicant must notch 10.6-10.7 GHz to protect Radio Astronomy operations and passive space sensors.