

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

EXPERIMENTAL

(Nature of Service)

WQ9XVA

(Call Sign)

XT FX

(Class of Station)

1105-EX-ST-2020

(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:

Calibration and radar testing.

The purpose of operation is to calibrate and validate a prototype data collection system.

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 (+/-)
8-8.025 GHz	FX	25M0Q3N	150 kW (ERP)	
8.4-8.6 GHz	FX	200MQ3N	150 kW (ERP)	

This authorization effective August 01, 2020 and
will expire 3:00 A.M. EST January 31, 2021

**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 (+/-)
8.6-8.8 GHz	FX	200MQ3N	150 kW (ERP)	
8.8-9 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)	
10.6-10.68 GHz	FX	80MQ3N	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 (+/-)
10.7-10.8 GHz	FX	100MQ3N	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)	
13-13.2 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 (+/-)
13.2-13.4 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 (+/-)
8-8.025 GHz	FX	25M0Q3N	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)	
9.2-9.4 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 (+/-)
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)	
10.6-10.68 GHz	FX	80MQ3N	150 kW (ERP)	
10.7-10.8 GHz	FX	100MQ3N	150 kW (ERP)	
10.8-11 GHz	FX	200MQ3N	150 kW (ERP)	
11-11.2 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 (+/-)
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

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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 (+/-)
8-8.025 GHz	FX	25M0Q3N	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)	
9.2-9.4 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)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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)	
10.6-10.68 GHz	FX	80M0Q3N	150 kW (ERP)	
10.7-10.8 GHz	FX	100MQ3N	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)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8-8.025 GHz	FX	25M0Q3N	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 (+/-)
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)	
9.2-9.4 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)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.6-10.68 GHz	FX	80MQ3N	150 kW (ERP)	
10.7-10.8 GHz	FX	100MQ3N	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

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

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)	

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) Stop Buzzer: Nathan Goodman at 405 325 0404, goodman@ou.edu
- (4) University of Oklahoma must exclude the 8.4-8.5 GHz, 9.336-9.376 GHz, 10.6-10.68 GHz, and 10.7-10.8 GHz frequency bands from operation.
- (5) Prior to commencing any operations in the 11.6-11.8 GHz, 11.8-12 GHz, and 12-12.2 GHz frequency bands, the applicant must notify the earth station licensees operating the 11.7-12.2 GHz band the test dates and provide a stop buzzer in case of interference:
- (6) University of Oklahoma shall coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the frequency range from 12 GHz to 13.4 GHz.
- (7) University of Oklahoma shall coordinate with Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation in frequency range from 10.4 GHz to 13.6 GHz.