

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

EXPERIMENTAL

(Nature of Service)

WK9XJD

(Call Sign)

XT FX MO

(Class of Station)

1136-EX-ST-2016

(File Number)

NAME First RF 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:

Air-to-Air and Air-to-Ground data transmission testing pursuant to a contract with the Air Force Research Laboratory at Rome, NY under Contract No. FA8750-14-C-0223.

Station Locations

- (1) Bedford (MIDDLESEX), MA - NL 42-28-01; WL 71-17-20
- (2) MOBILE: Airborne; 1000-8500 feet altitude, Chester, MA, within 150 km, centered around NL 42-18-21; WL 72-56-37
- (3) Plymouth (PLYMOUTH), MA - NL 41-54-38; WL 70-43-42
- (4) MOBILE: Airborne; 1000-8500 feet altitude, North Atlantic Ocean, within 150 km, centered around NL 41-06-15; WL 71-16-06

Frequency Information

Bedford (MIDDLESEX), MA - NL 42-28-01; WL 71-17-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2375-2395 MHz	FX	20M0D7W	40 W (ERP)	0.002 %

This authorization effective September 30, 2016 and
will expire 3:00 A.M. EST March 31, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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2375-2395 MHz	MO	20M0D7W	40 W (ERP)	0.002 %

Plymouth (PLYMOUTH), MA - NL 41-54-38; WL 70-43-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2375-2395 MHz	FX	20M0D7W	40 W (ERP)	0.002 %

MOBILE: Airborne; 1000-8500 feet altitude, North Atlantic Ocean, within 150 km, centered around NL 41-06-15; WL 71-16-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2375-2395 MHz	MO	20M0D7W	40 W (ERP)	0.002 %

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) All Silvus Technologies Inc. ground/flight tests must be approved/scheduled with the Regional Telemetry Scheduler at the Atlantic Test Range, Patuxent River, MD: Mr. Joe White, COMM 301-342-1542, paxrtpssched@navy.mil or joseph.white@navy.mil prior to operation.
- (4) The Department of the Navy does not object to the STA contingent on spectrum usage as agreed to in the attached AFTRCC coordination. That agreement concurs with this proposed experimental usage on a strict not-to-interfere basis to Flight Test Telemetry operations.
- (5) A "STOP BUZZER" POC/email/phone number(s) must also be provided. The POC must be available during operations and testing, to immediately shut down these experimental operations in the event they cause electromagnetic interference to Flight Test Telemetry Operations.

Special Conditions:

- (6) It was further recommend that these tests be conducted after hours (2000-0500 Local).
- (7) The band (2360 - 2390 MHz) is dedicated to Government (DoD) and non-Government (AFTRCC) Flight Test Telemetry Operations in the entire US&P and, assuming the test results are encouraging/promising, any intent/ambitions to operationally utilize any portion of this band for these new functions will be rejected by the Flight Test Telemetry Community until such time it can be proven that these new functions will not cause harmful interference to any current and planned Flight Test Telemetry operations.
- (8) This license SUPERSEDES the previous license: additional special conditions.