

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

EXPERIMENTAL

(Nature of Service)

WN9XDR

(Call Sign)

XC FX MO

(Class of Station)

0536-EX-ST-2018

(File Number)

NAME Georgia Institute of Technology

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:

To track aircraft using radiolocation and provide the aircraft position to multiple pointing systems over a radio link.

Station Locations

- (1) Holloman AFB, NM - NL 33-01-35; WL 106-08-20; MOBILE: Airborne: max altitude 20,000 ft. AGL, within 50 km

Frequency Information

Holloman AFB, NM - NL 33-01-35; WL 106-08-20; MOBILE: Airborne: max altitude 20,000 ft. AGL, within 50 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-450 MHz	MO	20M0D7W	6.34 W (ERP)	0.0005 %
3.3-3.4 GHz	MO	20M0M2N	65000 W (ERP)	0.0001 %

Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective August 16, 2018 and
will expire 3:00 A.M. EST February 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (2) Georgia Institute of Technology requested operations are limited to 430 - 450 MHz band. Operations from 400 - 430 MHz are NOT authorized. Georgia Institute of Technology should be aware that the band 406.1 - 420 MHz band is a highly congested band resulting in a high probability of causing interference to multiple Federal agencies operating in the requested area.
- (3) Georgia Institute of Technology operations must be coordinated and scheduled as a WSMR Range mission, through the U.S. Army Threat Systems Management Office (TSMO), and their WSMR Range sponsor. Final authorization to radiate is contingent upon successful scheduling and de-confliction of both airspace and spectrum, with other area-wide operations.
- (4) Stop Buzzer: Doug Martin, Phone: 404-407-7048, Email: doug.martin@gtri.gatech.edu
- (5) Licensee must maintain a point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein, for discussing interference concerns with other licensees, and must submit a letter to be included in its license file with the name and telephone number of the point of contact prior to commencing operation.
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.