

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WA8XGC

(Call Sign)

1379-EX-ST-2026

(File Number)

NAME Relativity Space

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:

Testing of the Terran-R launch vehicle Radio Frequency systems from the Wormhole facility.

Station Locations

(1) Long Beach (LOS ANGELES), CA - NL 33-49-02; WL 118-09-53

Frequency Information

Long Beach (LOS ANGELES), CA - NL 33-49-02; WL 118-09-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2235.5 MHz	FX	10M0G1D	5 W (ERP)	0.00042 %
2259.5 MHz	FX	10M0G1D	5 W (ERP)	0.00042 %
2365.5 MHz	FX	10M0G1D	5 W (ERP)	0.00042 %

This authorization effective August 04, 2026 and
will expire 3:00 A.M. ET February 02, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Long Beach (LOS ANGELES), CA - NL 33-49-02; WL 118-09-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2377.5 MHz	FX	10M0G1D	5 W (ERP)	0.00042 %

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) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC) who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the WAFC as necessary to ensure compatibility with existing uses.
- (3) All operations must be strictly limited to ground-based testing at the Relativity Space headquarters in Long Beach, CA, and this authorization cannot be used for launch or in-flight operations.
- (4) Future requests shall provide all necessary technical justification for the total requested bandwidth and, to the greatest extent possible, shall maximize spectral efficiency by eliminating transmission of redundant telemetry/telecommand streams using multiple center frequencies.
- (5) For future mission planning, Relativity Space should be aware that launch or inflight channel bandwidths exceeding 5 MHz in the 2200-2290 MHz band are particularly challenging to coordinate, and it is strongly recommended that such requests be avoided unless absolutely necessary (e.g., initial launch vehicle test flights). To facilitate successful coordination and minimize possible impacts on Federal agency operations, it is encouraged that Relativity Space reduce their downlink telemetry channels to a maximum of 5 MHz each as soon as possible.
- (6) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.