

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

EXPERIMENTAL

(Nature of Service)

WS9XNS

(Call Sign)

XT FX

(Class of Station)

0934-EX-ST-2021

(File Number)

NAME United Launch Alliance, LLC

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:

Launch vehicle communications for certifying Vulcan Centaur for future commercial space launch missions from Space Launch

Station Locations

(1) Cape Canaveral SFS (LEE), FL - NL 28-34-59; WL 80-34-59

Frequency Information

Cape Canaveral SFS (LEE), FL - NL 28-34-59; WL 80-34-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2211 MHz	FX	11M5G7D	18 W (ERP)	0.017 %
2255.5 MHz	FX	5M00G7D	14.8 W (ERP)	0.002 %
2287.5 MHz	FX	161KG2D	5.2 W (ERP)	0.002 %

This authorization effective November 01, 2021 and
will expire 3:00 A.M. EST May 02, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



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) Sixty (60) days prior to transmitting at Cape Canaveral SFS, United Launch Alliance, LLC shall coordinate and schedule their operations with Range Scheduling (1ropschd@us.af.mil, 321-853-5941), Jamie Bjornbak (James.P.Bjornbak@nasa.gov, 321-867-6905, NASA KSC SMO), and NASA GSFC Spectrum Office (NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov), and provide a copy of the FCC license to the 45th Space Wing Spectrum Management Office, 321-853-8408, email: 45sw.erfmo@us.af.mil and DoD EAFC, 321-853-8426, email: 45sw.dodeafc@us.af.mil
- (3) The maximum ERP for the 11M5G7D bandwidth mode shall be limited to 18 Watts (29.5 Watts EIRP) from a single antenna in accordance with the launch vehicle certification coordinated with federal agencies.
- (4) Operational use of this system must comply with the launch vehicle certification coordinated with federal agencies, which does not currently include the use of 161 kHz bandwidth narrowband mode of operation.
- (5) 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.
- (6) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating stations. United Launch Alliance, LLC should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down.