

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

EXPERIMENTAL

(Nature of Service)

WA9XEL

(Call Sign)

XT MO

(Class of Station)

0752-EX-ST-2026

(File Number)

NAME The Boeing Company

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:

Supporting the CST-100 landing and alternate landing sites.

Station Locations

- (1) MOBILE: surface to 80K, 25Km radius centered on grid, Wilcox Playa, AZ, within 25 km, centered around NL 32-08-24; WL 109-50-59
- (2) MOBILE: surface to 80K, 25Km radius centered on grid, Dugway Proving Ground, UT, within 25 km, centered around NL 40-10-12; WL 113-28-11
- (3) MOBILE: surface to 80K, 25Km radius centered on grid, Edwards Air Force Base, CA, within 25 km, centered around NL 34-57-00; WL 117-49-58
- (4) MOBILE: WITHIN ALLOWABLE BORDER OF WSMR, NM, within 85 km, centered around NL 32-56-23; WL 106-25-37
- (5) MOBILE: WITHIN ALLOWABLE BORDER OF WSMR, NW, within 85 km, centered around NL 33-32-23; WL 106-35-59

Frequency Information

MOBILE: surface to 80K, 25Km radius centered on grid, Wilcox Playa, AZ, within 25 km, centered around NL 32-08-24; WL 109-50-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	6M16D7W	130.3 W (ERP)	

This authorization effective July 01, 2026 and
will expire 3:00 A.M. EST December 17, 2026

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: surface to 80K, 25Km radius centered on grid, Dugway Proving Ground, UT, within 25 km, centered around NL 40-10-12; WL 113-28-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	6M16D7W	130.3 W (ERP)	

MOBILE: surface to 80K, 25Km radius centered on grid, Edwards Air Force Base, CA, within 25 km, centered around NL 34-57-00; WL 117-49-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	6M16D7W	130.3 W (ERP)	

MOBILE: WITHIN ALLOWABLE BORDER OF WSMR, NM, within 85 km, centered around NL 32-56-23; WL 106-25-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	6M16D7W	130.3 W (ERP)	

MOBILE: WITHIN ALLOWABLE BORDER OF WSMR, NW, within 85 km, centered around NL 33-32-23; WL 106-35-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	6M16D7W	130.3 W (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) Stop buzzer, Keegan Van Wyk (321) 447-1766.

Special Conditions:

- (3) This STA is limited to CST-100 capsule re-entry, landing, and post-landing operations. This STA will expire when the CST-100 capsule completes its landing operations or 16 December 2026, whichever occurs first. Any future missions or further extension of this mission shall submit new applications to the FCC to be coordinated with the NTIA and federal agencies.
- (4) The Boeing Company should be aware that any future requests for use of links centered at 2287.5 MHz that have time overlap with NASA Artemis mission(s) will be subject to further technical constraints.
- (5) For CST-100 re-entry, landing, and post-landing operations, notification shall be provided to the NASA GSFC Spectrum Office (NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov) and NASA JSC Spectrum Office (JSC-DL-Spectrum-Management@mail.nasa.gov) at least 14 days prior to re-entry operations. Notification shall include, as a minimum, re-entry date/time window, landing trajectory, and transmission frequencies with associated duration/cut-off time for planned operations. In the event of last-minute changes, updated notification information shall be provided as soon as possible.
- (6) The Boeing Company shall keep a log of all transmissions in the band 2200-2290 MHz and provide to the NTIA (ravery@ntia.gov) after the mission. This log shall include (as a minimum) date, time, frequency, EIRP density, and the pointing direction of all antennas.
- (7) All operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized federal stations.
- (8) All operations at Edwards AFB need to be scheduled in IFDS:
Jamie Heaton, CIV
DOD Western Area Frequency Coordinator
jamie.heaton.civ@us.navy.mil
Comm: 760-939-6832
Work number: +1 858-978-1984
- (9) Prior to commencing operations, coordinate with the following radio astronomy observatory points of contact:
 - a. Vlba-freqcoord@nrao.edu
 - b. nmrz@nrao.edu
- (10) 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.