

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

EXPERIMENTAL

(Nature of Service)

XT      FX

(Class of Station)

WO9XDO

(Call Sign)

1469-EX-ST-2019

(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:**

Testing of the communication link between Capsule and TDRS

**Station Locations**

- (1) Kennedy Space Center (BREVARD), FL - NL 28-35-20; WL 80-39-07
- (2) Kennedy Space Center (BREVARD), FL - NL 28-35-00; WL 80-34-58

**Frequency Information**

Kennedy Space Center (BREVARD), FL - NL 28-35-20; WL 80-39-07

| Frequency    | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------|------------------|---------------------------|
| 2106.406 MHz | FX            | 6M16D7W             | 133.66 W (ERP)   |                           |
| 2287.5 MHz   | FX            | 6M16D7W             | 133.66 W (ERP)   |                           |

This authorization effective October 02, 2019 and  
will expire 3:00 A.M. EST April 02, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Kennedy Space Center (BREVARD), FL - NL 28-35-00; WL 80-34-58

| Frequency    | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------|------------------|---------------------------|
| 2106.406 MHz | FX            | 6M16D7W             | 133.66 W (ERP)   |                           |
| 2287.5 MHz   | FX            | 6M16D7W             | 133.66 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) 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) The Boeing Co. must coordinate with the local Society of Broadcast Engineers coordinator prior to operation to protect the mobile Broadcast Auxiliary operations.
- (4) Future STA requests to extend this authorization will not be considered.
- (5) This STA is limited to pre-launch testing of the telemetry, tracking, and command operations for a single CST-100 capsule mission, scheduled for launch no earlier than 02 October 2019. This STA expires as soon as the CST-100 capsule launches or 1 April 2020, whichever occurs first. Any future missions shall submit new applications to the FCC to be re-coordinated with the NTIA.
- (6) All CST-100 transmissions using a frequency of 2287.5 MHz shall employ a maximum EIRP of 208.45 W. All CST-100 transmissions using a frequency of 2203.2 MHz shall employ a maximum EIRP of 26.12 W.
- (7) Prior to transmitting at Kennedy Space Center, Florida, Boeing shall coordinate and schedule their operations with Range Scheduling, COMM: (321) 853-5941, email: 1ropschd@us.af.mil, NASA KSC SMO, Jamie Bjornbak, James.P.Bjornbak@nasa.gov, (321) 867-6905, and NASA GSFC SMO, Scott Galbraith, vincent.s.galbraith@nasa.gov, (301) 286-5089 and provide a copy of FCC license to the 45th Space Wing Spectrum Management Office, (321) 853-8408, email: 45sw.erfmo@us.af.mil with Cc'ing DoD EAFC (321) 853-8426 at 45sw.dodeafc@us.af.mil.
- (8) The STOP BUZZER POC information for launch operations shall be provided to NTIA (bmitchell@ntia.gov). This phone shall be manned 24/7.