

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WI2XZD

(Call Sign)

XT MO

(Class of Station)

0243-EX-CR-2019

(File Number)

NAME The Boeing Company

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

(1) MOBILE: Flight level 40000 ft, CONUS, Alaska, Hawaii, US&P

Frequency Information

MOBILE: Flight level 40000 ft, CONUS, Alaska, Hawaii, US&P

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	MO		131826 W (ERP)	
		32M0G7W		
		3M99G7W		
		4M18G7W		
		460KG7W		
		5M00G1W		
		10M0G7W		

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective August 01, 2019 and
will expire 3:00 A.M. EST August 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) POINT-OF-COMMUNICATION: INMARSAT-5 F2, INMARSAT I5-F3 and US Permitted Space Stations.
- (5) Authorization of this application does not constitute U.S. Market access authorization for Inmarsat-5 F2, Inmarsat I5-F3 and US Permitted Space Stations in the 29.5 GHz - 30.0 GHz (Earth-to-space) frequency band.
- (6) The Stop Buzzer, 24 hour contact; Boeing NOC (253) 773-0609 or Allen S. Lindsay, (425)237-9168, allen.s.lindsay@boeing.com must be available during any testing or demonstration under this authorization.
- (7) Department of Defense is not responsible for coordinating or obtaining INMARSAT and US Permitted Space Station access agreements required for any testing/ demonstration under this authorization.
- (8) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future applications.
- (9) All Boeing operations granted on an experimental basis shall be conducted on an unprotected, non-interference basis to authorized Department of Defense stations.
- (10) The Boeing Company must successfully coordinate with the affected Fixed Microwave Service licensees in adjacent band 27.5-29.5 GHz, around each test site prior to commencing the experimental operations.
- (11) Prior to operation, the Boeing Company must coordinate with stations authorized to operate in these frequency bands that are located within a 25-mile radius of the transmitter.
- (12) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (13) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (14) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (15) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (16) 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 station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (17) Operations of the authorized stations must be in compliance with the terms and conditions specified in the ISAT US INC. earth station (call Sign E140114).