

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

EXPERIMENTAL

(Nature of Service)

WJ9XAZ

(Call Sign)

XT FX MO

(Class of Station)

1537-EX-ST-2016

(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:

Mexsat Initial System Test (IST) in El Segundo, CA.

Station Locations

- (1) El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered around NL 33-55-47; WL 118-23-44

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1627.8-1628.3 MHz	FX	500KG7W	43.16743 W (ERP)	
1627.8-1628.3 MHz	MO	500KG7W	13.65074 W (ERP)	
1627.8-1628.3 MHz	MO	500KG7W	1.21662 W (ERP)	

This authorization effective January 18, 2017 and
will expire 3:00 A.M. EST July 19, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1628.83-1629.75 MHz	FX	920KG7W	43.16743 W (ERP)	
1628.83-1629.75 MHz	MO	920KG7W	13.65074 W (ERP)	
1628.83-1629.75 MHz	MO	920KG7W	1.21662 W (ERP)	
1630.18-1630.7 MHz	FX	520KG7W	43.16743 W (ERP)	
1630.18-1630.7 MHz	MO	520KG7W	13.65074 W (ERP)	
1630.18-1630.7 MHz	MO	520KG7W	1.21662 W (ERP)	
1631.035-1631.06 MHz	FX	25K0G7W	43.16743 W (ERP)	
1631.035-1631.06 MHz	MO	25K0G7W	13.65074 W (ERP)	
1631.035-1631.06 MHz	MO	25K0G7W	1.21662 W (ERP)	
1631.2-1631.45 MHz	FX	250KG7W	43.16743 W (ERP)	

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1631.2-1631.45 MHz	MO	250KG7W	13.65074 W (ERP)	
1631.2-1631.45 MHz	MO	250KG7W	1.21662 W (ERP)	
1631.45-1631.5 MHz	FX	50K0G7W	43.16743 W (ERP)	
1631.45-1631.5 MHz	MO	50K0G7W	13.65074 W (ERP)	
1631.45-1631.5 MHz	MO	50K0G7W	1.21662 W (ERP)	
1631.95-1632.2 MHz	FX	250KG7W	43.16743 W (ERP)	
1631.95-1632.2 MHz	MO	250KG7W	13.65074 W (ERP)	
1631.95-1632.2 MHz	MO	250KG7W	1.21662 W (ERP)	
1632.2-1632.25 MHz	FX	50K0G7W	43.16743 W (ERP)	
1632.2-1632.25 MHz	MO	50K0G7W	13.65074 W (ERP)	

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1632.2-1632.25 MHz	MO	50K0G7W	1.21662 W (ERP)	
1634.4-1634.6 MHz	FX	200KG7W	43.16743 W (ERP)	
1634.4-1634.6 MHz	MO	200KG7W	13.65074 W (ERP)	
1634.4-1634.6 MHz	MO	200KG7W	1.21662 W (ERP)	
1634.7-1634.92 MHz	FX	220KG7W	43.16743 W (ERP)	
1634.7-1634.92 MHz	MO	220KG7W	13.65074 W (ERP)	
1634.7-1634.92 MHz	MO	220KG7W	1.21662 W (ERP)	
1650.05-1650.25 MHz	FX	200KG7W	43.16743 W (ERP)	
1650.05-1650.25 MHz	MO	200KG7W	13.65074 W (ERP)	
1650.05-1650.25 MHz	MO	200KG7W	1.21662 W (ERP)	

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-44; MOBILE: Boeing El Segundo, CA, within 0.25 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1650.4-1650.55 MHz	FX	150KG7W	43.16743 W (ERP)	
1650.4-1650.55 MHz	MO	150KG7W	43.16743 W (ERP)	
1650.4-1650.55 MHz	MO	150KG7W	1.21662 W (ERP)	
1660-1660.5 MHz	FX	500KG7W	43.16743 W (ERP)	
1660-1660.5 MHz	MO	500KG7W	13.65074 W (ERP)	
1660-1660.5 MHz	MO	500KG7W	1.21662 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 National Science Foundation requests a monthly log of start and stop times for transmission. The log should be sent to:

Dr. Glen Langston
 Email: glangsto@nsf.gov
 Phone: 703.292.4937

- (4) In accordance with US342, all practicable efforts be made to protect Radio Astronomy services from interference.
- (5) All of the experimental terminals will be under the control of The Boeing Company.
- (6) This grant of STA is for experimental testing of Reference User Terminals (RUT) only and does not constitute a grant of U.S. market access.

Special Conditions:

- (7) Stop Buzzer, Mike Hashiro, 310-364-9076 (Office)/310-890-7732 (Cell).
- (8) This authorization SUPERSEDES the previous issued authorization with the same call sign and file number: Amended special conditions.