

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL

(Nature of Service)

WA8XJC

(Call Sign)

XT FX MO

(Class of Station)

1568-EX-ST-2026

(File Number)

NAME Raytheon 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 in these frequency bands help support missile development and require flight testing around the Raytheon Tucson airport site.

Station Locations

- (1) Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110-56-19
- (2) Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110-56-19
- (3) Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110-56-19
- (4) Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110-56-19

Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-500 MHz	MO	7M00N0N 7M00F0N	1585 W (ERP)	

This authorization effective August 26, 2026 and
will expire 3:00 A.M. ET February 25, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1300-1400 MHz	MO	7M00N0N 7M00F0N	1585 W (ERP)	
1427-1500 MHz	MO	7M00F0N 7M00N0N	1585 W (ERP)	

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3100-3400 MHz	MO	7M00N0N 7M00F0N	1585 W (ERP)	

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 40 km, centered around NL 32-06-27; WL 110.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.25-15.35 GHz	MO	7M00N0N 7M00F0N	1585 W (ERP)	
15.4-15.6 GHz	MO	7M00F0N 7M00N0N	1585 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.

Special Conditions:

- (2) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/resources/frequency-coordination/> to find the appropriate coordinator.
- (4) Raytheon Company must avoid transmissions within the 5.340/US246 bands and direct illumination of the Kitt Peak (31° 57' 23"N, 111° 36' 45"W) VLBA and coordinate operations with VLBA-freqcoord@nrao.edu prior to operations.
- (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) Prior to commencing any operations in the frequencies below, Raytheon Company must obtain consent from the following within 118 miles of the contours of the operation area:
 - 1390 – 1392 MHz band
 - 1392-1395MHz/1432-1435 MHz band
 - Mobile and Fixed Service in 454 MHz/459 MHz
 - General Aviation Air-Ground Service in 454 MHz/459 MHz
- (7) Operation is prohibited on public-safety pool frequencies in the 400-500 MHz band under 47 C.F.R. § 90.20.

Special Conditions:

- (8) Prior to commencing operations in the authorized frequency band(s), the experimental licensee must notify the potentially affected licensees below. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should also include the testing parameters (e.g., specific location(s), frequency bands, antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Frequency Bands: 400.15-401 MHz (s-E) (Call sign S2103)

Licensee: ORBCOMM License Corp. Phone Number: 585-461-3018

ATTN: Mr. Walter H. Sonnenfeldt E-Mail: sonnenfeldt.walter@orbcomm.com

Frequency Bands: 401-402 MHz (s-E), 449.75-450.25 MHz (E-s) (Call sign S2912)

Licensee: Planet Labs PBC Phone Number: 202-221-5402

ATTN: Mr. Danielle Pineres E-Mail: compliance@planet.com

Frequency Bands: 399.9-400.05 MHz (E-s), 401-402 MHz (s-E), 402-403 MHz ((E-s & s-E), 449.75-450.25 MHz (E-s), 1.2-1.7 GHz (E-s) ((Call sign S2946)

Frequency Bands: 401-402 MHz (s-E), 402-403 MHz (E-s & s-E) 449.75-450.25 MHz (E-s) (Call sign S3045)

Frequency Bands: 399.9-400.05 MHz (E-s), 401-402 MHz (s-E)(Call sign S3182)

Frequency Bands: 310-508 MHz (UHS) 401-402 MHz (s-E), 449.75-450.25 MHz (E-s) 1055-1700 MHz (E-s) 2000-4000 MHz (S-band) (Call sign S3213)

Licensee: Spire Global, Inc. Phone Number: 415-356-3400

ATTN: Ms Francisca Adeuyi E-Mail: francisca.adeuyi@spire.com

Frequency Bands: 1215-1300 MHz (Remote Sensing) (Call sign S2986)

Licensee: Theia Holdings A, Inc. Phone Number: 470-346-6843

ATTN: Michael Fuqua E-Mail: mfuqua@brileyfin.com

Frequency Bands: 15.43-15.63 GHz (E-s) Call sign S2992/3069)

Licensee: Space Exploration Holdings, LLC, Phone Number: 202-649-2700

ATTN: Mr David Goldman, E-Mail: david.goldman@spacex.com

Frequency Bands: 401.5 MHz, 401.4375 MHz, 401.375 MHz, 401.225 MHz, 401.155 MHz, 401.085 MHz, 401.015 MHz and/or 400.875 MHz (s-E) 449.75-450.25 MHz (E-s) (center carrier frequency at 450.2 MHz) (secondary TT&C) (Call sign S3032)

Licensee: BlackSky Global LLC Phone Number: 203-815-4378

ATTN: Ms Jenifer Lamie E-Mail: jlamie@blacksky.com francisca.adeuyi@spire.com

Frequency Bands: 406-406.1 MHz (Earth-to-space) EPIRB) (Call sign S3042)

Licensee: HawkEye 360, Inc. Phone Number: 571-203-0360

ATTN: Mr. Michael Mineiro E-Mail: michael.mineiro@he360.com

Frequency Bands: 399.9-400.05 MHz, 400.15-401 MHz (s-E) (Call sign S3047 and E202161)

Licensee: Myriota Pty Ltd (Australia administration) Phone Number: 61405617987

ATTN: Mr Janek Kaucz E-Mail: janek.kaucz@myriota.com

Frequency Bands: 399.9-400.05 MHz & 401-403 MHz (E-s) 400.15-401 MHz (s-E) (Call sign S3054)

Licensee: Kineis, Phone Number: 202-416-6742

Special ATTN: Assia Bahri, E-Mail: abahri@kineis.com

Frequency Bands: 400.075-400.125 MHz (s-E) (Call sign S3072)
Frequency Bands: 330-420 MHz, 840-1400 MHz 1160-1606 MHz (E-s),
449.75-450.25 MHz (E-s) 400.15-401 MHz, 401-402 MHz (s-E) (Call sign S3170)
Frequency Bands: 400.15-401 MHz, 401-402 MHz (s-E) 449.75-450.25 MHz (E-s)
(Call sign S3184)
Licensee: Loft Orbital Solutions Inc. Phone Number: 410-382-5050
ATTN: Alex Greenberg E-Mail: alex@loftorbital.com

Frequency Bands: 400.15-401 MHz (space-to-Earth) (Call sign S3139)
Licensee: Orbital Sidekick, Inc. Phone Number: 707-641-4853
ATTN: Pete Friedhoff E-Mail: pete@orbitalsidekick.com

Frequency Bands: 400.15-401 MHz (space-to-Earth) (Call sign S3154)
Licensee: Momentus Space LLC Phone Number: 650-564-7820
ATTN: Mr. Paul Ney E-Mail: paul.ney@momentus.space

Frequency Bands: 401-402 MHz (s-E), 449.75-450.25 MHz (E-s) (Call sign S3159,
S3174)
Licensee: Outpost Technologies Corporation Phone Number: 424-276-0754
ATTN: Ms. Vanessa Kuroda E-Mail: vanessa@outpost.space

Frequency Bands: 400.15-401 MHz, 401-402 MHz(s-E) (Call sign S3179)
Licensee: Quantum Space LLC Phone Number: 703-585-1682
ATTN: Sue Hal E-Mail: sue.hall@quantumspace.us

Frequency Bands: 400.15-401 MHz (s-E) (Call sign S3189)
Licensee: Aethero Space Inc Phone Number: 248-946-6663
ATTN: Mr Edward Ge E-Mail: ed@aethero.com

Frequency Bands: 400.15-401 MHz(s-E) (Call sign S3204)
Licensee: Vast Space LLC Phone Number: 310-220-0300
ATTN: Mr Brad Powell E-Mail: brad@vastspace.com

Frequency Bands: 401.07-401.13MHz(s-E) (Call sign S3212)
Licensee: Hubble Network Inc Phone Number: 610-308-4638
ATTN: Abraham Marciano E-Mail: abe@hubblenetwork.com

Frequency Bands: 400.15-401MHz (s-E) (SOS) (Call sign S3222)
Licensee: Pixxel Space Technologies, Inc. Phone Number: 650-338-6564
ATTN: Dr Eiji Yafuso E-Mail: eyafuso@pixxel.space

Frequency Bands: SOS: 401-402 MHz (s-E) (SOS) (Call sign S3222)
Licensee: Reflect Orbital Phone Number: 7747229498
ATTN: Ben Nowack E-Mail: ben@reflectorbital.com

Frequency Bands: MSS: 399.9-400.05 MHz (center frequency 400.0375 MHz,
bandwidth 9.89 kHz) (Earth-to-space) (backup) SOS: 401-402 MHz (center
frequency 401.2 MHz, bandwidth 9.89 kHz (space-to-Earth) (backup) (Call sign
S3225)
Licensee: Basalt Technologies Corp. Phone Number: 415-385-7136
ATTN: Maximilian Bhatti E-Mail: max@basalt.space

- (9) Operation has been coordinated prior to authorization with the appropriate Area Frequency Coordinator, who also consulted with the Aerospace and Flight Test Radio Coordinating Council as needed. Use of this frequency under this authorization remains subject to any additional coordination required to ensure compatibility with existing operations.
- (10) The designated point-of-contact to terminate transmissions if interference occurs is Shaun Crum at 520-646-6421.