

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WQ2XOT

(Call Sign)

0620-EX-CN-2026

(File Number)

NAME Technology Service Corporation

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: Parking lot and around TSC offices, Huntsville, AL, within 3 km, centered around NL 34-43-46; WL 86-40-22
- (2) MOBILE: Vessel on the lake, Langston, AL, within 10 km, centered around NL 34-33-47; WL 86-05-18
- (3) MOBILE: Vessel on the lake, Peytona Points, AL, within 8 km, centered around NL 34-48-27; WL 87-32-45
- (4) MOBILE: Vessel on the River, Stevenson, AL, within 5 km, centered around NL 34-50-04; WL 85-48-08
- (5) MOBILE: Vessel in the Gulf of America, Pensacola, FL, within 10 km, centered around NL 30-20-51; WL 87-03-24
- (6) MOBILE: Vessel in the Gulf of America, East Point, FL, within 7.5 km, centered around NL 29-41-06; WL 84-47-41
- (7) MOBILE: Surface vessel on Pickwick Lake, TN, within 8 km, centered around NL 35-01-26; WL 88-14-24
- (8) MOBILE: Surface Vessel on Lake Guntersville, AL, within 5 km, centered around NL 34-21-54; WL 86-18-51
- (9) MOBILE: Surface Vessel on Tennessee River, Chattanooga, TN, within 5 km, centered around NL 35-05-53; WL 85-14-18
- (10) MOBILE: Surface Vessel on Mobile, AL, within 5 km, centered around NL 30-41-15; WL 88-01-59
- (11) MOBILE: Vessel on Gulf of America and Santa Rosa Sound, Navarre Beach, FL, within 8 km, centered around NL 30-22-59; WL 86-51-37
- (12) MOBILE: Vessel on Gulf of America and Choctawhatchee Bay, Destin, FL, within 5 km, centered around NL 30-23-51; WL 86-30-16
- (13) MOBILE: Vessel on Gulf of America, Perdido Key, FL, within 8 km, centered around NL 30-18-10; WL 87-24-53

This authorization effective July 14, 2026 and
will expire 3:00 A.M. EST July 01, 2028

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Parking lot and around TSC offices, Huntsville, AL, within 3 km, centered around NL 34-43-46; WL 86-40-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on the lake, Langston, AL, within 10 km, centered around NL 34-33-47; WL 86-05-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on the lake, Peytona Points, AL, within 8 km, centered around NL 34-48-27; WL 87-32-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %

Frequency Information

MOBILE: Vessel on the lake, Peytona Points, AL, within 8 km, centered around NL 34-48-27; WL 87-32-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on the River, Stevenson, AL, within 5 km, centered around NL 34-50-04; WL 85-48-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel in the Gulf of America, Pensacola, FL, within 10 km, centered around NL 30-20-51; WL 87-03-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %

Frequency Information

MOBILE: Vessel in the Gulf of America, Pensacola, FL, within 10 km, centered around NL 30-20-51; WL 87-03-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel in the Gulf of America, East Point, FL, within 7.5 km, centered around NL 29-41-06; WL 84-47-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Surface vessel on Pickwick Lake, TN, within 8 km, centered around NL 35-01-26; WL 88-14-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

Frequency Information

MOBILE: Surface Vessel on Lake Guntersville, AL, within 5 km, centered around NL 34-21-54; WL 86-18-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Surface Vessel on Tennessee River, Chattanooga, TN, within 5 km, centered around NL 35-05-53; WL 85-14-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Surface Vessel on Mobile, AL, within 5 km, centered around NL 30-41-15; WL 88-01-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %

Frequency Information

MOBILE: Surface Vessel on Mobile, AL, within 5 km, centered around NL 30-41-15; WL 88-01-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on Gulf of America and Santa Rosa Sound, Navarre Beach, FL, within 8 km, centered around NL 30-22-59; WL 86-51-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on Gulf of America and Choctawhatchee Bay, Destin, FL, within 5 km, centered around NL 30-23-51; WL 86-30-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %

Frequency Information

MOBILE: Vessel on Gulf of America and Choctawhatchee Bay, Destin, FL, within 5 km, centered around NL 30-23-51; WL 86-30-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

MOBILE: Vessel on Gulf of America, Perdido Key, FL, within 8 km, centered around NL 30-18-10; WL 87-24-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	MO	16K0G1D	0.75 W (ERP)	16 %
162.025 MHz	MO	12K5G1D	0.75 W (ERP)	16 %
5405 MHz	MO	100MQ3N	50.4 W (ERP)	0.00001 %

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) Stop buzzers, Chris Wilson (334) 332-0952 and TSC FCC Hotline (252) 512-7715.

Special Conditions:

- (4) 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: 161-163 MHz (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: 156.0125-162.0375 MHz (E-s) (2nd Gen only) (Call sign S2110)

Licensee: Iridium Constellation LLC Phone Number: 202-230-4644

ATTN: Mr. Kara Azocar E-Mail: kara.azocar@iridium.com

Frequency Bands: 161.9625-161.9875 MHz, 162.0125-162.0375 MHz (Call sign S2862, S2912)

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

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

Frequency Bands: 161.9375-162.0375 MHz (Call sign S2946)

Frequency Bands: 130-183 MHz (VHS) 161.9625-161.9875 MHz (AIS

1)162.0125-162.0375 MHz (AIS 2) (Call sign S3213)

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

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

Frequency Bands: 161.9625-161.9875 MHz (AIS 1)162.0125-162.0375 MHz (AIS 2) (Call sign S3042)

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

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

Frequency Bands: 156.0125-162.0375 MHz (Call sign S3054)

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

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

Frequency Bands: 161.975 MHz (AIS 1), 162.025 MHz (AIS 2) (Call sign S3175)

Licensee: Sidus Space, Inc. Phone Number: 321-450-5633

ATTN: Ms Carol Craig, E-Mail: carol.craig@sidusspace.com

- (5) Operation using the frequency of 162.025 MHz with an emission designator bandwidth of 16 kHz is not permitted. Only an emission designator bandwidth of 12.5 kHz is authorized.