

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

EXPERIMENTAL
(Nature of Service)

XC FX MO
(Class of Station)

WK2XZD
(Call Sign)

0007-EX-TC-2021
(File Number)

NAME XTAR, LLC

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(C) of the Commission's Rules

Station Locations

- (1) ST PETERSBURG (PINELLAS), FL - NL 27-52-27; WL 82-38-53
- (2) MOBILE: Within C7 beam of XTAR LANT @ 30W - Eastern CONUS, within 1450 km, centered around NL 38-00-00; WL 82-00-00

Frequency Information

ST PETERSBURG (PINELLAS), FL - NL 27-52-27; WL 82-38-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8314.61-8315.97 MHz	FX	1M00G1D	6.92 kW (ERP)	1.0E-6 %
8340.25-8341.6 MHz	FX	1M00G1D	6.92 kW (ERP)	1.0E-6 %
8341.86-8343.21 MHz	FX	1M00G1D	6.92 kW (ERP)	1.0E-6 %

This authorization effective August 06, 2021 and
will expire 3:00 A.M. EST January 01, 2024

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Frequency Information

MOBILE: Within C7 beam of XTAR LANT @ 30W - Eastern CONUS, within 1450 km, centered around NL 38-00-00; WL 82-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8316.45-8316.75 MHz	MO	220KG1D	1.2 kW (ERP)	1.0E-6 %
8342.095-8342.395 MHz	MO	220KG1D	1.2 kW (ERP)	1.0E-6 %
8343.7-8344 MHz	MO	220KG1D	1.2 kW (ERP)	1.0E-6 %

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) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (3) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USSOCOM CONTRACT H92401-18-D-0005. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (5) Stop buzzer: Todd Dudley
Phone Number: 5712813572
E-Mail Address: tdudley@xtar.com

Special Conditions:

- (6) For transmission from hub and remote stations to XTAR-LANT @ 30.0° W.L. satellite, prior to commencing any operations in the 8314.61-8344 MHz frequency band, the licensee must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference:

Parameters: Latitude=38° 00' 00", Longitude=82° 00' 00"

Call Sign: E980375 File Number: SES-MOD-20120710-00639

Licensee: DG Consents Sub, Inc.

ATTN: Mr. Demitrius M. Anthony

Phone: 703-480-6338 Fax: 703-480-8174 E-Mail:
demitrius.anthony@digitalglobe.com

Counsel: LATHAM & WATKINS LLP

ATTN:

Phone: 202-637-2200 Fax: E-Mail:

DistanceLatitude

LongitudeSite Address/

Contact InformationElevation

AMSLFrequency Lo/

Frequency Hi

257.2 39° 0' 56.0" N NAD27

77° 25' 42.0" W

21700 ATLANTIC BLVD.

DULLES, VA

WILLIAM WARREN 703-480-5672 79.38 00008025.00000000 R
00008395.00000000

00008025.00000000 R

00008400.00000000

Call Sign: E110171 File Number: SES-MOD-20180424-00394

Licensee: Universal Space Network, Inc.

ATTN: Joanne Greet

Phone: 215-328-9130 Fax: 215-328-9132 E-Mail: jgreet@uspacenet.com

Counsel: SAME AS APPLICANT

ATTN:

Special Phone: 215-328-9130 Fax: E-Mail:

DistanceLatitude
LongitudeSite Address/
Contact InformationElevation
AMSLFrequency Lo/
Frequency Hi

780.34 26° 44' 50.2" N NAD83
81° 2' 56.7" W
400 Airglades Blvd
Clewiston, FL
MIKE STECKEL 215-394-0155 5.4 00008025.00000000 R
00008375.00000000

00008025.00000000 R
00008395.00000000

- (7) Notification shall be provided to the NASA GSFC Spectrum Office at NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV, at least 7 days prior to operations.
- (8) All XTAR testing granted shall be conducted on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, authorized AF stations.
- (9) All XTAR testing granted shall be conducted IAW the purpose, configuration and RF parameters that XTAR coordinated with Air Force (Jimmy Nguyen) and ARSTRAT (Travis Inghram) for this specific STA.
- (10) The emission designator/s listed in the FCC grant are approved for the stated occupied bandwidth/s only. Occupied bandwidth/s that is/are less than the approved emission/s is/are not authorized.
- (11) As soon as possible but no later than 3 business days prior to any planned testing, XTAR is required to provide Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil, AFSMO) and Travis J. Inghram (Email: travis.j.ingram.civ@mail.mil, ARSTRAT) with the planned testing date/duration and the stop buzzer POC for the testing. If planned testing conflicts with DoD/AF operations, additional evaluations and/or restrictions will be required.
- (12) All XTAR testing granted shall be conducted IAW the purpose, configuration and RF parameters that XTAR coordinated with NMSC (Dan Kibe) and ARSTRAT (Travis Inghram) for this specific STA.

Special Conditions:

- (13) As soon as possible but no later than 3 business days prior to any planned testing, XTAR is required to provide Dan Kibe (Email: dan.kibe@navy.mil, NMSC), Keith Jones (keith.k.jones@navy.mil, NMSC).and Travis J. Inghram (Email: travis.j.ingham.civ@mail.mil, ARSTRAT) with the planned testing date/duration and the stop buzzer POC for the testing. If planned testing conflicts with DoD/Navy operations, additional evaluations and/or restrictions will be required.
- (14) POINT OF COMMUNICATION: Hispasat 30W-6
- (15) This is for experimental purpose only and doesn't permit commercial service or market access.