

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

EXPERIMENTAL

(Nature of Service)

WS9XLC

(Call Sign)

XT FX MO

(Class of Station)

1466-EX-ST-2021

(File Number)

NAME XTAR LLC

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:

This STA will authorize periodic operation of an IDS BB45X SATCOM terminal, to be placed upon USAF C-130 Hurricane Hunter aircraft. Previous STA (1026-EX-ST-2021) approved for this

Station Locations

- (1) Laurel (PRINCE GEORGES), MD - NL 39-06-36; WL 76-49-48
- (2) MOBILE: Coast & Ocean inside 30dBi of XTAR-LANT C7 Gain 10,000 FEET MSL, within 1900 km, centered around NL 31-00-00; WL 76-00-00

Frequency Information

Laurel (PRINCE GEORGES), MD - NL 39-06-36; WL 76-49-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.32504-8.32731 GHz	FX	1M68G1D	13.3 kW (ERP)	1.0E-6 %

This authorization effective October 01, 2021 and
will expire 3:00 A.M. EST February 19, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Coast & Ocean inside 30dBi of XTAR-LANT C7 Gain 10,000 FEET MSL, within 1900 km, centered around NL 31-00-00; WL 76-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.31736-8.32504 GHz	MO	5M69G1D	21.237 kW (ERP)	1.0E-6 %

Special Conditions:

- (1) Prior to commencing any operations in the 8.31736-8.32504 GHz and 8.32504-8.32731 GHz frequency bands, experimental licensee must notify licensees of earth stations. 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 include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

Call Sign: E110171

Frequency bands: 8.025-8.395 GHz

Licensee: Universal Space Network, Inc.

ATTN: Joanne Greet

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

Site Contact: MIKE STECKEL 215-394-0155

Call Sign: E980375

Frequency bands: 8.025-8.4 GHz

Licensee: DG Consents Sub, Inc.

ATTN: Mr. Demitrius M. Anthony

Phone: 703-480-6338 Fax: 703-480-8174 E-Mail:

demitrius.anthony@digitalglobe.com

Site Contact: WILLIAM WARREN 703-480-5672

- (2) 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 stations. The XTAR LLC should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down.
- (3) Operations shall not occur within 230 km of Wallops Island, VA due to HIA to federal earth stations.

Special Conditions:

- (4) XTAR LLC shall be aware that airborne operations are not permitted in the Mobile-satellite service allocation in the 8215-8400 MHz band, and XTAR LLC shall have no expectations that future requests for operational use of this frequency band will be approved.
- (5) All XTAR testing shall conduct IAW the configuration and RF parameters (e.g., orbital slot/s, specific frequencies, emission designators, etc.) that XTAR coordinated with ASMO (Stephen Harris), NMSC (Dan Kibe), ARSTRAT (Travis Inghram) and AFSMO (Jimmy Nguyen).
- (6) The emissions designators listed in this grant are approved for the stated occupied bandwidth only. Occupied bandwidths that are less than the listed emissions are not authorized.
- (7) As soon as possible but no later than 3 business days prior to any planned testing, XTAR requires providing Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil, AFSMO) 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 operations, additional evaluations and/or restrictions will be required.