

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WI2XNZ

(Call Sign)

0034-EX-CN-2016

(File Number)

NAME SES Americom, Inc.

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(j) of the Commission's Rules

Station Locations

(1) Contiguous United States, UA

Frequency Information

Contiguous United States, UA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.6-28.4 GHz	FX	216MG7D	638.7 kW (ERP)	0.0003 %
28.6-29.1 GHz	FX	216MG7D	638.7 kW (ERP)	0.0003 %

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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Prior to operation in 27.6-28.4 GHz and 28.6-29.1 GHz bands, licensee must successfully coordinate with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).

This authorization effective January 06, 2017 and
will expire 3:00 A.M. EST January 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Prior to operation, the experimental licensee of this authorization must notify seven days in advance all authorized satellite earth station operators in the Ka-band within 30 km radius for each test perform and provide a stop buzzer contact person. Consult MyIBFS database to identify all existing authorized earth stations within the 30 km radius.
- (5) Licensee must complete coordination with the National Spectrum Managers Association (NSMA) spectrum manager coordinators seven days in advance prior of operating a demonstration/testing terminal at any location. The spectrum manager coordinators contact information can be found in the website:
http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave.
- (6) 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 station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (7) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (8) Operations to this authorization, the experimental licensee earth station antenna(s) are limited between 7 and 50 degrees north latitude.
- (9) The minimum elevation angle of the direction of transmission of the experimental licensee antenna(s) with respect to the horizontal plane at which licensee earth stations may transmit is 7 degrees.
- (10) While the earth station is operating at a stationary location, the operator shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 C.F.R. §§ 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- (11) Point of communications: O3b Limited.