

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

EXPERIMENTAL

(Nature of Service)

WR9XHO

(Call Sign)

XT FX

(Class of Station)

1302-EX-ST-2020

(File Number)

NAME SES Government Solutions (SES GS)

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:

Antenna testing.

Station Locations

(1) Port St. Lucie, FL - NL 27-16-56; WL 80-28-57

Frequency Information

Port St. Lucie, FL - NL 27-16-56; WL 80-28-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27600-29100 MHz	FX	52K8G7D	118 W (ERP)	0.00006 %

Special Conditions:

- (1) Stop buzzer: Arlene Johnson
Phone: 7036100916
Email: arlene.johnson@ses-gs.com
- (2) Licensee is not authorized to operate 0.48-meter earth station at Bristow, VA (NL 38-47-06; WL 77-34-19)
- (3) Point of communications: O3b's NGSO satellites (Call Sign S2935)

This authorization effective November 19, 2020 and
will expire 3:00 A.M. EST March 15, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Licensee is authorized to operate a 0.48-meter earth station via O3b's NGSO satellites in the 27600-29100 MHz band (Earth-to-space) and subject to the following

Frequency EIRP	Station Class EIRP density	Emission Designator	Authorized Power
27600-28350 MHz W (4.7mW) (ERP)	FX -21.1 dBW	55K4G7W -32.5 dBW/4kHz	0.0047

Frequency EIRP	Station Class EIRP density	Emission Designator	Authorized Power
28350-29100 MHz (ERP)	FX 22.9 dBW	52K8G7D 15.29 dBW/4KHz	118W

- (5) Operations in the 27.6-28.4 GHz (Ka-band) frequency band must be in compliance with the Article 22, Section II, and Resolution 76 of the ITU Radio Regulations. In the 27.6-28.4 GHz frequency band, the equivalent power flux-density (EPFD) limit in the Earth-to-space direction (EPFDup) must not exceed -162 dBW/m² in 40 kHz bandwidth.
- (6) The authorized 0.48 meter earth station transmitter must be turned off whenever (1) there is no O3b satellite in view at an elevation angle of at least 40 degrees, or (2) the direction of the 0.48m earth station transmit beam and the GSO arc is separated varies between 10° and 14°; dependent on the O3b satellite's position during pass. Operations in the 28.35-28.4 GHz frequency band must maintain +/-10° to +/-14° of avoidance angle (exclusion zone) with the GSO arc at all times. As the earth station is tracking O3b's NGSO satellites, it must not radiate within +/- 10° and 14° of the GSO arc; dependent on the O3b satellite's position during pass.