

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

EXPERIMENTAL

(Nature of Service)

WK9XSW

(Call Sign)

XT      FX

(Class of Station)

1488-EX-ST-2016

(File Number)

NAME SES Government Solutions, Inc.

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:**

Testing and demonstration of terminals for prospective government customers.

**Station Locations**

(1) Bristow (PRINCE WILLIAM), VA - NL 38-47-00; WL 77-34-24

**Frequency Information**

Bristow (PRINCE WILLIAM), VA - NL 38-47-00; WL 77-34-24

| Frequency         | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|---------------------|------------------|---------------------------|
| 28.855-29.071 GHz | FX            | 26M4G1D             | 32579.2 W (ERP)  |                           |

**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.

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

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (3) Prior to operation, the experimental licensee of this authorization must notify five days in advanced all authorized satellite earth station operators in the Ka-band within 30 km radius and provide a stop buzzer contact person. Consult MyIBFS database to identify all existing authorized earth stations within the 30 km radius.
- (4) Licensee must complete notify the National Spectrum Managers Association (NSMA) spectrum manager coordinators prior to operating testing of this terminal. The spectrum manager coordinators contact information can be found in the website: [http://wireless.fcc.gov/services/index.htm?job=licensing\\_1&id=microwave](http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave).
- (5) 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.
- (6) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) 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.
- (8) 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](http://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.
- (9) Point of communications: O3b constellation.