

## REQUEST FOR EXPERIMENTAL SPECIAL TEMPORARY AUTHORITY

SES Government Solutions, Inc. (“SES-GS”) respectfully requests special temporary authority (“STA”) to conduct evaluation and demonstration of a 17 inch L-3 satellite ground terminal at a site in Bristow, VA for communications with the O3b Ka-band non-geostationary orbit satellite fleet. The Commission has previously authorized terminals in the U.S. to communicate with the O3b satellite network,<sup>1</sup> and has granted experimental STA for prior demonstrations involving the L-3 17-inch antenna.<sup>2</sup> For this set of tests, the terminal will use either the O3b channel 3 frequencies (uplink to the O3b network in the 28.172-28.388 GHz frequency range and receive in the 18.372-18.588 GHz frequency range) or the O3b channel 5 frequencies (uplink to the O3b network in the 28.855-29.071 GHz frequency range and receive in the 19.055-19.271 GHz frequency range). Grant of the requested authority is consistent with Commission precedent and will serve the public interest by allowing SES-GS to conduct demonstrations of the O3b system’s capabilities to potential government customers.

Information regarding the directional antenna is as follows:

Width of the antenna beam in degrees at the half-power point	1.5 degrees
Orientation of the antenna in the horizontal plane	Azimuth sweep range is from 230 degrees to 130 degrees
Orientation of the antenna in the vertical plane	Elevation will vary from 15 degrees up to 33 degrees across the pass

The terminal will be located at the SES Washington Media Port teleport in Bristow, Virginia. A map of the site is provided below.

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<sup>1</sup> See O3b Limited, File Nos. SAT-LOI-20141029-00118 & SAT-AMD-20150115-00004, Call Sign S2935, grant-stamped Jan. 22, 2015.

<sup>2</sup> See L-3 Communications, File No.1370-EX-ST-2016, Call Sign WK9XJK, granted Sept. 20, 2016.

