

## REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Government Solutions, Inc. (“SES-GS”) respectfully requests special temporary authority (“STA”) for a period of 30 days to use an additional frequency segment, 28.855-29.071 GHz uplink and 19.055-19.271 GHz downlink, for communications between its earth station in Bristow, VA and the O3b Ka-band non-geostationary orbit fixed-satellite service (“NGSO FSS”) satellite fleet. SES-GS currently holds authority to use the Bristow earth station for communications with O3b using the frequencies in O3b’s beam 3,<sup>1</sup> and the additional frequencies requested here are used by O3b’s beam 5. Grant of the requested authority is in the public interest as it will allow SES-GS to accommodate a recent frequency reassignment from O3b. As with its existing STA, SES-GS proposes to operate for demonstration purposes only and does not seek to provide commercial services to end users. In order to accommodate the schedule for testing, SES-GS requests action on this STA by no later than September 8.

Complete technical information regarding the Bristow earth station was submitted to the Commission in support of the earlier SES-GS STA request for Bristow, File No. SES-STA-20131022-00887, and is incorporated by reference herein. In particular, that application included a Schedule B describing the applicable technical parameters, a complete set of antenna patterns, link budgets, and a radiation hazard analysis. Apart from adding the new set of frequencies, no changes from the specifications set forth in those materials are proposed here. SES-GS also incorporates by reference the market access showing and waiver requests SES-GS submitted in File No. SES-STA-20131022-00887 and the technical information relating to the O3b constellation that is on file with the FCC.<sup>2</sup>

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<sup>1</sup> See SES Government Solutions, Inc., File Nos. SES-STA-20131022-00888 (grant-stamped Jan. 6, 2104); SES-STA-20131022-00887 (grant-stamped Jan. 31, 2014); & SES-STA-20140612-00517 (grant-stamped July 29, 2014).

<sup>2</sup> See materials submitted in O3b File Nos. SES-LIC-20130124-00089 (granted June 20, 2013); SES-LIC-20100723-00952 (granted Sept. 25, 2012); SES-AMD-20131025-01138; SES-LIC-20130618-00516; SES-AMD-20140814-00653.

Adding the new frequency segment is consistent with Commission precedent and will serve the public interest. As discussed above, the Commission has already reviewed the technical parameters of the SES-GS Bristow earth station in granting the current STA for this location. Furthermore, the SES-GS Bristow earth station is located in close proximity to antennas operated by O3b that have been authorized to use all the O3b frequency segments, including the beam 5 spectrum.<sup>3</sup> Because NGSO FSS has a primary allocation in the beam 5 spectrum, the proposed operations conform to the Table of Allocations. The requested STA will allow SES-GS to evaluate and demonstrate the O3b network's operational capabilities and will not result in harmful interference to other authorized spectrum users. Thus, grant of the STA will serve the public interest.

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<sup>3</sup> O3b has submitted a request for a permanent license at this site, File No. SES-LIC-20130618-00516. Pending action on this application, the Commission has granted O3b temporary authority for operations at the Bristow location. See File Nos. SES-STA-20130617-00497 (grant-stamped Aug. 27, 2013) & SES-STA-20140514-00357 (grant-stamped June 30, 2014).