

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Government Solutions, Inc. (“SES-GS”) respectfully requests special temporary authority (“STA”) for a period of 30 days beginning on December 1, 2014, to use an additional frequency segment, 28.855-29.071 GHz uplink and 19.055-19.271 GHz downlink (“the Beam 5 Frequencies”), 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 communicate with O3b from the Bristow earth station site using the frequencies in O3b’s beam 3.¹ In addition, SES-GS was issued a 30-day STA in September for the Beam 5 Frequencies at this location.² As with the prior STA grants, SES-GS seeks authority to communicate with O3b’s constellation for demonstration purposes only and does not seek to provide commercial services to end users. Grant of the requested authority is in the public interest as it will allow SES-GS to conduct demonstrations of the O3b system’s capabilities to potential government customers.

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 Beam 5 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.³

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

² See SES Government Solutions, Inc., File No. SES-STA-20140903-00694 (grant-stamped Sept. 5, 2014).

³ 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 Beam 5 Frequencies 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 prior STAs 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 Frequencies.⁴ 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.

⁴ 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).