

From: Karis Hastings

To: Doug Young

Date: December 21, 2016

Subject: Request for Info - STA File #1488-EX-ST-2016

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Message:

SES Government Solutions, Inc. ("SES-GS") is no longer seeking authority to use the O3b Channel 3 frequencies (28.172 - 28.388 GHz) that were originally requested in this STA filing, and which are the subject of this correspondence. O3b recently confirmed to SES-GS that it would have availability in the Channel 5 frequencies (28.855 - 29.071 GHz), and as a result, no authority is needed for the Channel 3 band.

SES-GS was unsure whether this change required submission of a new STA request or whether we could pursue the current STA request with only the Channel 5 frequencies. Out of an abundance of caution we have done both: SES-GS filed today a new STA request that covers only the Channel 5 frequencies, File No. 1753-EX-ST-2016, and we have also removed the Channel 3 frequencies from the original STA request and modified the power information relating to the Channel 5 frequencies. SES-GS asks that the Commission expeditiously act on either the new STA request or the modified STA request and dismiss the other filing.

The updated power information for the Channel 5 frequencies that we have submitted here reflects further discussions with L-3, the antenna manufacturer. Specifically, L-3 advised SES-GS that the original data it provided on output power for the STA request was based on an incorrect understanding of what information the FCC was seeking. In addition, L-3 supplied revised antenna gain information that was based on measured, rather than predicted, data.

Based on these changes, SES-GS has revised the value for the output power requested in the STA to 11.2 W, which represents the BUC power including losses between the output of the PA and the antenna input. The antenna gain at the upper edge of Channel 5 based on the measured data is 36.8 dB. Using these values, the calculated ERP is 45.1 dBW, or 32579.2 W. The EIRP is 47.3 dBW, or 53449.1 W.

Preparations for the demonstrations that are the subject of this STA request are scheduled to begin on January 9, 2017, so SES-GS respectfully requests action consistent with that timetable.