

From: Karis Hastings

To: Doug Young

Date: November 21, 2016

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

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Message:

SES Government Solutions (SES-GS) believes that operations at the power levels requested in this STA are compliant with the applicable power flux density limits in Article 22.5D of the ITU Radio Regulations, as required pursuant to the conditions of U.S. market access for the O3b Limited satellite network under Call Sign S2935. It appears to SES-GS that the calculations made by the Satellite Division of the International Bureau did not take into consideration the off-axis angle between the O3b nongeostationary orbit and the geostationary arc. From the Bristow, VA site for which authority is requested in the STA, that off-axis angle is a worst case of approximately 13.5 degrees. If the off-axis angle is taken into account, SES-GS calculates that there is no exceedance of the power flux density limit at the EIRP level requested in the STA.

SES-GS also notes that the power levels it has requested are consistent with those authorized in an experimental STA granted to L-3 Communications for use of the same antenna for communications with the O3b system. See File No.1370-EX-ST-2016, Call Sign WK9XJK, granted Sept. 20, 2016.