

To: Karis Hastings
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From: Doug Young
Date: November 10, 2016

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

Message:

The FCC's International Bureau's Satellite Division has reviewed the subject request and have the following comments/questions:

We reviewed O3b Limited FCC Satellite Network Grant (Call Sign S2935) and found condition #6 that stipulate the following:

"O3b Limited's system operations in the 27.6-28.6 GHz (Earth-to-space) frequency band must comply with the applicable power flux density requirements in Article 22.5D of the ITU Radio Regulations."

We calculated the power flux density for this experimental request and the value exceed the PFD limit in RR 22.5D by 18.7 dB.

Distance km	ERP W	EIRP dBW	Bandwidth MHz	PSD dBW/Hz	Path loss dB	PFD dBW/Hz/m2	40 kHz Ref BW	Limit 25D	deficit dB
35,786	30,548	47.0	26.4	-27.2	162.1	-189.3	-143.3	-162.0	18.74

To comply with the PFD limit in RR 22.5D the EIRP output will need to be reduced by 18.7 dB. Hence the compliance power level value must be EIRP = 28.3 dBW or 412 Watts (ERP)

Please respond to these comments.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of November 10, 2016 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 34675