

To: Suzanne Malloy
E-Mail: Suzanne.Malloy@O3bnetworks.com
From: Nimesh Sangani
Date: May 09, 2019

Subject: Additional Information Request

Message:

IB/SD would like the EPFD demonstrations for both 0.85m and 2.4m antennas.

We will need the following information:

> For operations of AvL 0.85m Ka-band antennas, please provide off-axis EIRP power spectral density ("PSD") standards (the "off-axis mask") set forth in §25.138(a) or the requirements set forth in §25.220 (Non-routine transmit/receive earth station operations) of the Commission's rules.

> For operations of AvL 0.85m and AvL 2.4m Ka-band antennas, please demonstrate that your proposed operations in the 27.6-28.4 GHz frequency band via O3b Limited's NGSO satellites will be in compliance with the equivalent power Flux-density limit (-162 dBW/m²/40 KHz) in Article 22.5D of the ITU Radio Regulations (see Annex B of attachment and O3b Limited's epfd demonstration in its experimental application 0712-EX-ST-2019 for reference).

> For operations of AvL 0.85m and AvL 2.4m Ka-band antennas, please provide the detail calculation, data/number/value and formula that used to calculate the EPFD for the 27.6-28.4 GHz frequency band, emission (216M0G7D) and its associated powers (745kW (ERP) and 70.79MW (ERP)).

> Please certify that your proposed operations and communication between earth stations (user terminals) and satellites are in compliance with all existing and future coordination agreements between United Kingdom and other administrations, GSO and NGSO satellite operators.

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 May 09, 2019 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 : 47984