To: Noah Cherry
E-Mail: noah.cherry@ses.com
From: Nimesh Sangani
Date: October 28, 2021

Subject: Additional Information Request

Message:

Please address the following questions and concerns:

Applicant certified that the proposed operations in the 29.5-30 GHz band will meet the equivalent power Flux-density levels limit (-162 dBW/m2 in 40 kHz bandwidth) in the Table 22-2 of Article 22, Section II, of the ITU radio Regulations. Please provide the following uplink information that used to conduct in the EPFD calculation:

a. a maximum input power spectral density (dBW/40kHz and dBW/4kHz) for earth station,

b. the minimum separation angle between the O3b NGSO orbit and the GSO arc (degrees),

c. the off-axis gain (dBi) (32-25log(?) transmitting from earth station),

d. the off-axis EIRP density towards the GSO (dBW/40kHz and dBW/4kHz),

e. the spreading loss

f. the minimum elevation angle from centered around NL 35-58-01; WL 84-13-45 to the GSO orbit/ satellite

i. the maximum EIRP density (dBW/40kHz and dBW/4kHz) radiated towards a victim GSO satellite at any point on the GSO arc (which will result at very low power and would not cause interference to GSO satellite)

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 October 28, 2021 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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