

Nimesh Sangani

From: Dirk Wallinger <dirk.wallinger@yorkspacesystems.com>
Sent: Friday, March 6, 2020 12:32 PM
To: Nimesh Sangani
Cc: Carlos Nalda; dburnett@lmiadvisors.com; Steve Pennington
Subject: RE: Additional Information Request

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Hello Nimesh,

Apologies for sending this direct, but we continue to have some challenges loading things through the site as requested (see far below). We have responses to the last request below. Please let us know what other information would be helpful.

Please provide the following for 8200 - 8400 MHz so that the Satellite team can do the analysis:

1) The PFD level calculation at the surface of the earth

Response: $14\text{dBW} - 71 - 20 \cdot \log_{10}(500\text{km}) - 10 \cdot \log_{10}(50\text{MHz}) - 24 = -151.97 \text{ dBW/m}^2/4\text{kHz}$

2) The PFD level calculation at the GEO belt

Response: $14\text{dBW} - 71 - 20 \cdot \log_{10}(35286\text{km}) - 10 \cdot \log_{10}(50\text{MHz}) - 24 = -188.94 \text{ dBW/m}^2/4\text{kHz}$

3) Since the emission is 50 MHz, please provide the need for the 8200-8400 MHz band assignment.

Response: The 8200-8400 request was to maintain compatibility with the previous license, We can operate with an 8275-8325 allocation.