

From: Craig Scheffler

To: Nimesh Sangani

Date: June 25, 2019

Subject: Additional Information Request

Message:

Hello Nimesh,

A document with answers to NTIA's questions has been uploaded to the application file.
In short the answers are as follows:

Payload channels:

maximum PFD at GSO: -183.8 dB(W/m²; / 4kHz)

maximum PFD at Earth's Surface at 90 deg angle of arrival: -147.1 dB(W/m²; /4kHz)

maximum PFD at Earth's Surface at 5 deg angle of arrival: -161.1 dB(W/m²; /4kHz)

Telemetry Channels:

maximum PFD at GSO: -182.4 dB(W/m²; / 4kHz)

maximum PFD at Earth's Surface at 90 deg angle of arrival: -140.6 dB(W/m²; /4kHz)

maximum PFD at Earth's Surface at 5 deg angle of arrival: -154.6 dB(W/m²; /4kHz)

Payload channel footprint around Fairbanks

Shown as a plot in the document submitted to the application file.

-20 dB contour: approximately 250 km radius around Fairbanks

-10 dB contour: approximately 100 km radius around Fairbanks

-3 dB contour: approximately 45 km radius around Fairbanks

Also note that the aggregate power of the three payload channels is 2 Watts, whereas each individual channel is 0.67 Watts. I corrected form 442 for each channel to 0.67 watts.

Craig Scheffler