From: Ryan Martineau

To: Doug Young

Date: February 14, 2018

Subject: Request for Info - File # 0759-EX-CN-2017

Message:

In response to #1:

Regarding the 468 MHz downlink band, the EIRP presented in the SpaceCap and associated PFD did not account for spacecraft attitude when transmitting to the ground. The reported PFD is -152.23 dBW/m^2/4kHz accounting for spacecraft attitude and antenna pattern, with EIRP of 2.3 dBW in that direction. The antenna was designed such that the system meets the PFD requirement, the SpaceCap can be updated to reflect this if necessary.

In response to #2:

The SDL OPAL spacecraft has a frequency of 450.00 MHz which is in the range specified by NASA (450-450.25 MHz).