

From: Jacob Portukalian

To: Doug Young

Date: August 20, 2019

Subject: Request for Info - File # 1319-EX-ST-2019

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Message:

Hi Doug,

I went to amend the application, but looks like the emission bandwidths are there. They are:

2211 MHz: 2000 kbps baud rate, 2320 kHz necessary bandwidth, PCM/FM

2215 MHz: 4000 kbps baud rate, 4640 kHz necessary bandwidth, PCM/FM

I've already provided trajectory information to Christopher Carroll from Alion Science. Is there another contact that I need to send the mission information to?

The 2215 MHz frequency is on until about 200 seconds into the mission, at which point it is terminated permanently. The 2211 MHz frequency is on until about 600 seconds into the mission, at which point it is powered off. Then approximately 90 minutes later when the upper stage is within line of site to the launch site, the transmitter is powered back on for approximately 10 minutes to get that pass. After that pass the transmitter is powered off for the remainder of life of the vehicle.

I provided our launch trajectory and the ephemeris file post-orbit-injection to Chris Carroll, happy to forward this data to whoever else needs to evaluate.

Regards,

Jacob