

From: Erin Griggs

To: Doug Young

Date: September 20, 2019

Subject: Request for Info - File # 0011-EX-CN-2019

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Message:

Thank you for your feedback.

Our satellite is not susceptible to minor orbit errors, as our atmospheric sensing instrument will operate at a range of altitudes and node times. We desire that our orbit be sun-synchronous and above most of the ionosphere as to better sample the entire atmosphere, as well as to simplify our satellite operations.

For our initial orbit attainment from launch, we will change our altitude from 620 km to 650 km, and inclination from 97.7° to 98.0° to maintain the node time of the sun-synchronous orbit. During our operational period of 7 years, we plan to maintain an altitude of 650 km  $\pm$  10 km, an inclination of 98.0°  $\pm$  0.05°, and to keep our node time to  $\pm$  00:30 of 6:00. If tighter tolerances are desired, please advise.