

## Douglas Young

---

**From:** Douglas Young  
**Sent:** Tuesday, August 25, 2020 3:59 PM  
**To:** michelle.mcclure@spire.com; ananda.martin@spire.com  
**Subject:** Request for Info - File #0253-EX-CN-2020  
**Attachments:** Additional\_data\_for\_API.pdf; LEMUR-2\_3 ISL.csv

Address the issues listed below:

Correct the fatal errors in the SpaceCap file(see attached report)  
Complete the attached additional data form for ITU submission

The narrative indicates there's four spacecraft, the "orbit configuration" document says no more than 175, the SpaceCap shows 1792, and the ODAR doesn't mention numbers at all. Please clarify.

Some frequencies appear to be missing from the Form 442: 449.75-450.25 MHz, 399.9-400.05 MHz. Please correct/confirm

The antenna patterns in the narrative are not labeled.

1. Indicate how many spacecraft this filing is for, and revise and resubmit all exhibits so that the specific number of spacecraft and the spacecraft information for which the experimental license is sought is clear.
2. Please rerun all analyses with the current version of DAS (3.1.0) or other higher fidelity modeling software.
3. Does the addition of a third solar drag panel change the area-to-mass calculations? If so, please provide ODAR related information for each unique spacecraft configuration (area-to-mass, collision risks, surviving debris, orbital lifetimes, etc.)
4. For collision risk with large objects, provide both the single satellite risk as well as the aggregate risk for the constellation.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of August 25, 2020 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.