

Anthony Serafini

From: Anthony Serafini
Sent: Tuesday, May 8, 2018 7:44 AM
To: 'aijohnst@calpoly.edu'
Subject: Questions for 0338-EX-ST-2018
Attachments: ITUcost.rec.example.docx

Alicia

Please respond to the following questions for Lightsail:

1. Following ejection from the Prox-1 spacecraft, will there be any proximity operations that in any way involve Lightsail-2, or will the two objects simply drift apart. If there will be proximity operations please provide a detailed description of the methods that will be used to avoid collisions between the two objects.
2. The ODAR notes that, in its stowed configuration, Lightsail-2 will have an anticipated orbital lifetime of 92 years. Since compliance with the 25 year requirement therefore appears to depend on the successful deployment of the sail, please provide a detailed analysis concerning reliability of the sail deployment.
3. Please address whether the mission objectives could be achieved by launch to a lower initial altitude, from which, in the stowed configuration, the satellite would re-enter within 25 years.
4. Assuming successful deployment of the sail, are there any possible failure modes in which the spacecraft orbital altitude would increase, rather than result in atmospheric re-entry.
5. Please provide additional information concerning the planned flight profile for the spacecraft. How high will the apogee be raised? What is the anticipated accuracy with which spacecraft trajectory can be controlled?
6. Will spacecraft trajectory planning include screening for possible collisions with other space objects?
7. Will data on planned trajectories be made available to the 18th SPCS and other operators?
8. Please provide the space station and earth station antenna beam diagrams
9. Provide cost recovery letter using the attached template

Thanks
Tony