

To: Sanders Brian  
E-Mail: Brian.Sanders@colorado.edu  
From: Anthony Serafini  
Date: May 26, 2009

Subject:

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Message:

Our International would like to have answers to the following questions:

1) In calculating the satellite orbital dwell time, the application indicates that two different values were used for the area of the satellite. In one case, a value  $0.02 \text{ m}^2$  was used while in another case a value of  $0.2 \text{ m}^2$  was used. Is this a typographical error? Which value was used for each calculation? What is the basis for the use of these particular values?

2) What is the maximum aspect area of the satellite? Minimum?

3) What measure(s) have been taken to avoid collision with other objects in space? Would the satellite have any propulsion capabilities?

4) What is the failure rate of satellites using this bus, i.e. how many have no mission life, or fail within a day or two after launch? How many operate successfully through their full design life? What steps, if any, have been taken to identify and address failure modes?

5) Is the 1 kg weight an estimate or a measured value? If a measured value, please indicate the actual weight of the satellite, to three decimals of accuracy.

6) What is the reliability of the deployment mechanism of the antenna system? How does the deployment mechanism work?

7) Can you provide any more detail about the launch? What launcher? Are the altitudes specified in the application still accurate? What is the reliability/accuracy of the orbital insertion?

8) Has the University's submission been peer reviewed?

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 May 26, 2009 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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