To: Michael Miller
E-Mail: mlmiller@sterk.space
From: Nimesh Sangani
Date: November 02, 2020

Subject: Additional Information Request

Message:

Please address the following ODAR questions:

1. Due to the small size of the individual unit spacecraft, are there any techniques or systems being employed to increase the trackability of the spacecraft?

2. Please provide the depth, or thickness, of the individual units being utilized in each ThinSat (2A-2I).

3. On page 14 of the ODAR, please clarify the specifics of "Case 3: Un-Deployed With Aerodynamic Stabilization". Does this mean the ThinSats will remain in the launcher tube? Are the launcher tubes also released from the Antares second stage?

4. Is the term "cluster" (on pages 14&15 of the ODAR) to mean the entire contents of a launcher tube? If so, please explain why the area would only be 0.111 x 0.114, or 0.013 m2, for each cluster. These dimensions correspond to a single thin version of the units, correct? Assuming all the units in a given "cluster" are stacked, would the depth not be the total depth of all the units?

5. On page 3 of the DAS Logs, the ThinSat-2A parent object is being modeled as a flat plate. The parent object should be a box, like in all other analyses for ThinSats 2B-2G. Please correct this and rerun analysis or provide an explanation.

6. For ThinSat-2D, starting on page 65 of the DAS Logs, it appears this was modeled as a 5-unit spacecraft (108.45cm x 11.42cm x 3cm) instead of a 7-unit spacecraft as indicated in the Technical Description. Please correct and rerun analysis or provide an explanation.

7. Please confirm the structure of ThinSat-2E. Is it 5 units stacked and bolted together?

8. For ThinSat-2E, starting on page 85 of the DAS Logs, what are the objects identified as "Chasis - Side A/B/C/D"?

9. For ThinSat-2E, will the two exterior units not act similar to shielding for the interior units during reentry? As well, the most interior unit would again be shielded by the units directly surrounding it. Please provide an explanation or analysis showing each unit would disintegrate uniformly, or rerun the survivability analysis with each exterior unit shielding the interior units.

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 November 02, 2020 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at https://apps.fcc.gov/oetcf/els/index.cfm by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 58351