

Description and Explanation of Changes in the Revised PR-CUNaR2 ODAR

Reference File 0160-EX-CM-2020

The PR-CuNaR2 CubeSat underwent several design and concept-of-operations (CONOPS) changes, which necessitated a new orbital debris analysis be performed. These changes do not change the conclusion of the initial ODAR: PR-CuNaR2 is still compliant with all orbital debris requirements.

Following is a summary of the changes made to the description of the design, and the component list.

- The dimensions and mass for the vibrating experiment enclosure (Item #39) were updated.
- The designation of the permanent magnet (Item #41) was added in order to distinguish it from the stabilization magnet.
- The Inertial Measurement Unit (IMU) was removed.
- The Conformal Coating (Item #51) was specified as HumiSeal 1A33.
- The dimensions and mass for the Coin Cell (Item #56) were added.
- The amount of Kapton tape used in construction of the CubeSat was updated.

The CONOPS of the ODAR has some changes from the original, to more clearly describe, the deployment sequence and initial communications with the CubeSat.