

From: Richard Peal

To: Nimesh Sangani
Date: August 20, 2021

Subject: Additional Information Request

Message:

1. What are the dimensions of the spacecraft? What are the dimensions of the deploying antenna?
S/C dimensions are: 64x58 mm for baseplate with 50x50x50 mm cube stacked on top
with a weight (max) of 250g
antenna is a wire dipole, 2 wires with 15cm each

2. Does the spacecraft have maneuverability functionality? Propulsion, differential drag, etc.?
S/C has no propulsion
Maneuverability is enabled by 3 magnetorquers and 1 reaction wheel
No differential drag

3. What is the large object collision risk of the spacecraft?
Please refer to MyRadar1 ODAR

4. Are there any end of mission procedures planned? Disconnecting the batteries from charging,
depleting any remaining charge, etc.?
no, but we can switch off transmitters by ground command

5. What is the version of DRAMA used in calculations?

DRAMA version 2.21
ARES 2.18.3
MIDAS 2.1.3
OSCAR 2.3.0
CROC 1.8.0
SARA-REENTRY 1.20.7
SARA-RISK 1.20.2
ESA contract: 4000104977/11/D/SR