

Response to question 5 from Space Bureau in 2025.

5. Please provide responses to the following requirements:

a. Transit through inhabitable space station orbits - 47 CFR 5.64(b)(4)(i)(C)

**Answer:**

The spacecraft has no propulsion and no plan for any orbit changes by any means while passing through the altitude of the ISS or the Tiangong, or otherwise. The plan is for passive demise.

Should we receive a conjunction warning from 18<sup>th</sup> Space Control Squadron that involves the ISS, we will contact ISS operations at NASA Johnson Space Center, to develop a mitigation plan. This could include altering the attitude of the spacecraft to change the drag force and thereby influence the orbit. Should a similar warning be received with regard to the Tiangong space station, we will contact the 18<sup>th</sup> Space Control Squadron to discuss options for a response.

b. Certification upon receipt of a SSA warning - 47 CFR 5.64(b)(4)(i)(E)

**Answer:**

We hereby certify that upon receipt of a space situational awareness conjunction warning, we will review and take all possible steps to assess the collision risk, and will mitigate the collision risk if necessary. As appropriate, steps to assess and mitigate the collision risk shall include, but are not limited to: contacting the operator of any active spacecraft involved in such a warning; sharing ephemeris data and other appropriate operational information with any such operator; and modifying space station attitude.

c. Initial identification of the satellite and tracking - 47 CFR 5.64(b)(5)(i)

**Answer:**

Tracking will mainly be passive. Initially we will use the data from the launch vehicle for TLEs, and using these TLEs will attempt UHF contact with the spacecraft. When available, the SpaceTrack database will be used to determine the location of the cohort of spacecraft launched with SPRITE. When there is sufficient spread, process of elimination will be used, pointing at each object in turn to determine which one is our spacecraft.

d. Registration with the 18th SCS - 47 CFR 5.64(b)(5)(ii)

**Answer:** Registration papers have been submitted. The registration will be completed prior to integration.

e. Sharing information and coordination with other operators - 47 CFR 5.64(b)(5)(iii)

**Answer:** We will share information regarding initial deployment, and ephemeris, with the 18th Space Control Squadron, and with anyone else who enquires. No maneuvers are planned, or possible.