**Annex F – National UK ADR Mission Requirements**

The National UK ADR mission requirements are:

R1. The mission shall have successfully passed FRR (Flight Readiness Review) in 2026 or before.

R1a. The mission should have successfully passed LRR (Launch Readiness Review) in 2026 or before.

R2. The budget for the mission shall be in the range of £40-60M.

Note 1: This indicative budget should not be perceived as any commitment or agreement from the UK Space Agency or other UK government organisation to provide further funding.

R3. The chaser spacecraft should be designed, manufactured, and qualified for an on orbit mission lifetime of 10 years.

R4. The chaser spacecraft shall have the capability to either dock, berth, or otherwise capture the target spacecraft.

R5. The nominal mission shall remove at least two UK-licensed objects from the Low Earth Orbit (LEO) protected region.

Note: UK-licensed objects defined as those objects listed in the UK registry of Outer Space Objects as of May 2021 (<https://www.gov.uk/government/publications/uk-registry-outer-space-objects>). The LEO protected region is defined as spherical region that extends from the Earth’s surface up to an altitude of 2,000km.

R6. Removal shall be considered as either direct re-entry of the target object or significantly accelerated natural decay of the object (considered to be at least 50% reduction in their orbital lifetime at end-of-life).

Note: Orbital lifetime of target shall be taken as the lifetime at the time of the chaser's capture of that specific target.

R7. Each target to be removed shall be uncooperative (it has not been designed, manufactured and prepared for capture and/or de-orbiting) or, if targets are selected that have been designed, manufactured and prepared for capture and/or de-orbiting then none of these "pre-prepared" design aspects or functionality shall be utilised by the Chaser

R8. The target objects should be non-operational at the point of launch of the chaser spacecraft.

Note 1: "Non-operational" means that the target is no longer considered operational by the owner/operator, and they have no know plans to recommence operations.

Note 2: Even if the functionality to do so remains on the target, the mission shall not utilise the target's capability to change its orientation or position in a controlled manner due to either ground command or commands from the target or chaser's On-Board Computer/Command and Data Handling Units

Note 3: Even if the functionality to do so remains on the target, information shared by the target on its attitude or position shall not be utilised by the nominal mission.

R9. The chaser shall allow for refurbishment at the end of the nominal mission.

Note 1: Refurbishment refers to refuelling the servicer for future reuse.

Note 2: The end of the nominal mission is defined as follows: After the chaser has removed at least two eligible targets and returned to an orbit consistent with the mission lifetime requirement (R3)

R10. All stages of the mission shall demonstrate compliance with the space debris mitigation requirements stated in IADC Space Debris Mitigation Guidelines.

R11. The refurbishment of the chaser shall comply with the space debris mitigation requirements stated in IADC Space Debris Mitigation Guidelines.