

To: Jennifer Manner  
E-Mail: jennifer.manner@echostar.com  
From: Nimesh Sangani  
Date: October 15, 2020

Subject: Additional Information Request

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Message:

Please address the following questions and concerns.

Please clarify the point of communication for this experimental license request. Is the request for only the two satellites identified in the ODAR, or does it include future satellites operating under the SIRION ITU filing?

1. Perform all DAS related calculations with the most current version of DAS (3.1.0), or other appropriate modeling software.
2. Will either of the satellites be performing stationkeeping, and if so, what will be the tolerances?
3. What is the method employed for the deployment of the solar arrays? Is there any flight heritage information for these methods?
4. What are the stowed and deployed area-to-mass values?
5. Please provide a dead-on-arrival orbit lifetime and collision risk for each satellite, separately.
6. Please provide the collision risks for a single satellite, and the aggregate, if end-of-life orbit lowering is not performed.
7. Please explicitly label all collision risk figures as either individual or aggregate values.
8. Your survivability analysis indicated no surviving debris but a non-zero casualty risk. Please rerun the survivability analysis with the updated version of DAS (or other modeling software) and provide the results. If a similar situation occurs, please include the detailed logs, as well.

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 October 15, 2020 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 57969