



December 13, 2021

BY ELECTRONIC FILING

Marlene H. Dortch
Secretary
Federal Communications Commission
45 L Street, N.E.
Washington, DC 20554

Re: *IBFS File No. SAT-MOD-20200417-00037*

Dear Ms. Dortch:

As required under the conditions of its license, Space Exploration Holdings, LLC (“SpaceX”) hereby reports that its non-geostationary orbit satellite system experienced three or more satellite disposal failures during a continuous one-year period that began after April 2, 2021.¹ The table attached hereto provides information as to the satellites involved, the causes of the anomalies, and the actions SpaceX has taken to address the issues.

If you have any questions, please do not hesitate to address them to me.

Sincerely,

/s/ David Goldman

David Goldman
Director, Satellite Policy

SPACE EXPLORATION TECHNOLOGIES CORP.
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Attachment

¹ See *Space Exploration Holdings, LLC*, 36 FCC Rcd. 7995, ¶ 97u (2021). For this purpose, the Commission has defined a “satellite disposal failure” as a satellite that loses the capability to maneuver at a higher altitude above injection. See *id.* ¶ 61.

Satellite Number	Cause	Remedial Action	Is SpaceX in contact with the satellite and does it have attitude control for collision avoidance?	Date
STARLINK-1348	Flight computer failure	Sensitive components have been identified and removed from future designs	No	7/14/2021
STARLINK-1141	Attitude sensing failure	Sensitive components have been identified and removed from future designs	No	10/22/2021
STARLINK-1743	While deorbiting, fell into a non-recoverable tumble due to three independent faults	Power generation limits have been tightened, sensitive components have been identified and removed from future designs, SW processes have been adjusted	No	12/3/2021
STARLINK-1613	Propellant board failure	Sensitive components have been identified and removed from future designs	No	12/6/2021