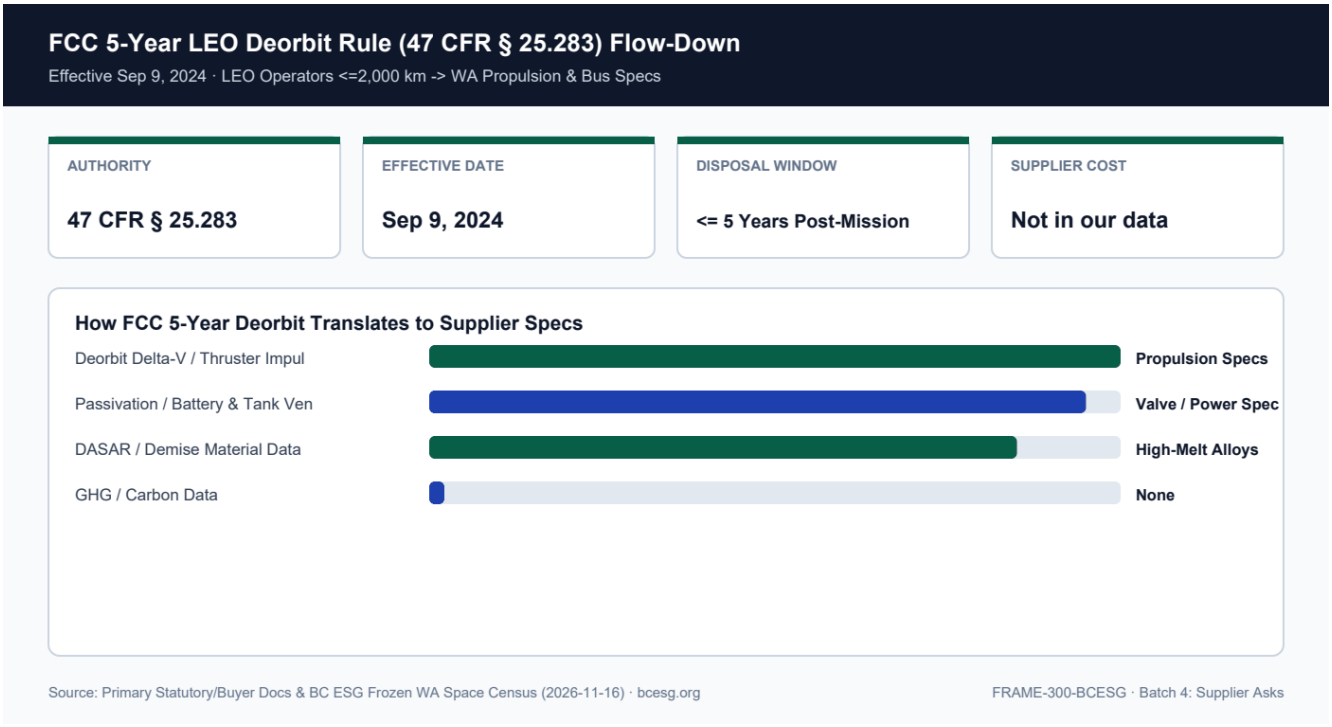
FCC 5-Year LEO Deorbit Rule (47 CFR § 25.283) Supplier Flow-Downs

Published: November 16, 2026 · Canonical URL: https://bcesg.org/wa-space-ask-fcc-5yr-deorbit-epd-flowdown/

Verification & Authority Baseline: Binding US federal regulation (47 CFR § 25.283, effective Sep 9, 2024) on FCC-licensed LEO satellite operators (<=2,000 km). Flows down to WA propulsion, passivation, and bus suppliers as propellant-budget, valve-venting, and casualty-risk specs.



FCC Rule Element	Supplier Engineering Deliverable
<= 5-Year Deorbit (<= 2,000 km)	Propulsion delta-V & reliability qualification data
End-of-Life Passivation	Latch/vent valve & battery discharge FMEA
Re-entry Casualty (< 1 in 10,000)	Component alloy mass & melt-temp inputs for ODAR

Who Issues This Ask, Authority, and Binding Status

Commercial LEO satellite operators—including SpaceX (Starlink), Amazon Leo, BlackSky, and Hubble Network—must satisfy the FCC's **5-year post-mission disposal rule (**47 CFR § 25.283**)** for satellites below 2,000 km.

Binding status: 47 CFR § 25.283 is **binding US federal law** on FCC satellite licensees, and lands on WA hardware suppliers as **contractual engineering specifications** (propulsion total impulse, end-of-life passivation valves, and material melt-temperature data for NASA DAS casualty analysis).

Evidence Required & Small-Supplier Effort Cost

Suppliers provide **thruster total-impulse qualification data**, **passivation reliability FMEAs**, and **alloy melt/mass properties** for the prime's FCC Orbital Debris Assessment Report (ODAR).

Engineering qualification costs are **not in our data**.

WA Space Cluster Segments & Companies Affected

Affects Satellite Manufacturing, Propulsion (Aerojet Rocketdyne, Agile Space), and In-Space Servicing (Starfish Space).

Verified Primary Sources & Internal Bridges

• eCFR — 47 CFR § 25.283 (End-of-Life Disposal of Space Stations):
https://www.ecfr.gov/current/title-47/chapter-I/subchapter-B/part-25/subpart-D/section-25.283