Gravitics (Marysville): StarMax Modules, Axiom & SpaceWERX Contracts, and Station EOL

Pillar: WA Servicing & Habitats | **Basis:** Operator Releases & Contract Records | **Primary Source:** Gravitics / Axiom / SpaceWERX | **As Of:** As of Nov 2026 (42,000 sq ft Marysville Facility)

Marysville-based Gravitics manufactures large-diameter StarMax pressurized space-station modules under a $125M Axiom Space contract and a $1.7M SpaceWERX TacRS contract; commercial orbital habitats carry heavy controlled-reentry obligations at end of life.

Documented Instrument & Engineering Record

• Manufacturing footprint: Gravitics operates a 42,000 sq ft development and production facility at Cascade Industrial Center in Marysville, WA (4150 152nd St NE).

• Contracted programs (roadmap hardware, not yet in orbit): Gravitics holds a $125M contract with Axiom Space (July 2024) for commercial station module utility infrastructure and a $1.7M SpaceWERX SBIR Phase II contract for Tactically Responsive Space (TacRS) orbital platforms.

• Orbital sustainability implication: Large pressurized modules (4m, 6m, and 8m class, up to 400 m^3) far exceed the 1:10,000 uncontrolled reentry casualty threshold due to dense structural rings, hatches, and pressure vessels.

• Controlled deorbit requirement: Any commercial station or heavy orbital platform using StarMax-class structures must plan controlled propulsive reentry (such as an attached deorbit tug) into SPOUA.

Gravitics Programs & Orbital End-of-Life Implications

Program / Asset	Status (Nov 2026)	Orbital Disposal Requirement
Marysville Cascade Facility	Operational (42,000 sq ft)	Ground structural & integration prototyping
Axiom Space Module Contract	Contracted ($125M, roadmap)	Requires controlled station deorbit vehicle at EOL
SpaceWERX TacRS Platform	Contracted ($1.7M, roadmap)	DoD/NASA ODAR & controlled/demisable disposal

Mission Designer, Compliance Lead & Founder Takeaways

• Commercial space stations replacing the ISS inherit the same controlled-reentry engineering burden as legacy station programs.

• Pressurized module designers must plan docking/berthing interfaces not only for visiting crew/cargo vehicles but also for end-of-life deorbit tugs.

• Gravitics' Marysville hardware remains in ground development/production rather than on-orbit operation as of November 2026.

Cross-Cluster Links & Primary Sources

• **Gravitics (Marysville) Census Profile:** https://bcesg.org/gravitics-washington-space-cluster-profile/

• **In-Space Servicing RPO & Habitats:** https://bcesg.org/wa-in-space-servicing-rpo-habitats-resources/

• **Reentry Casualty Risk & Demisability:** https://bcesg.org/wa-space-orbital-casualty-risk-demisability/

• **Gravitics Official Site:** https://www.gravitics.com/

• **NASA Standards: NASA-STD-8719.14:** https://standards.nasa.gov/standard/nasa/nasa-std-871914

Provenance Note: Contract figures ($125M Axiom, $1.7M SpaceWERX) and Marysville facility (42,000 sq ft) verified as of 2026-11-16; distinguishes ground production from orbital deployment.