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Sidus Space Successfully Deploys Advanced SpacePilot Software for Autonomous Operations; Commissions LizzieSat®-3 Attitude Determination and Control System

Commissioning Milestone Enables Precise Control, Power Optimization, and Mission Readiness

CAPE CANAVERAL, Fla.--(BUSINESS WIRE)-- Sidus Space (**NASDAQ: SIDU**), (the Company or "Sidus"), an innovative space and defense technology company, today announced the successful deployment of its new autonomous guidance, navigation, and control (GNC) software, SpacePilot and commissioning of the Attitude Determination and Control System (ADCS) on LizzieSat®-3 (LS3).

Designed for next-generation satellite operations, SpacePilot integrates real-time star tracker, sun sensor, magnetometer, gyroscope, and GPS data onboard LS3 to enable high-precision orbital control with minimal ground intervention. Key features include:

- **Attitude Determination:** Real-time estimation of spacecraft orientation for mission-critical accuracy
- **Attitude Control:** Stabilization and mission-aligned adjustments to support payload operations
- **Optimal Trajectory:** Fuel-efficient, time-optimized flight paths for extended mission life
- **Autonomous Guidance:** Precise rendezvous and proximity operations (RPO) with minimal operator input
- **Adaptive Autonomy:** Dynamic response to changing orbital conditions and fault scenarios
- **Lightweight Design:** Optimized for resource-constrained small satellite platforms

"Activating SpacePilot and commissioning the ADCS marks a critical milestone for LS3's mission," said Carol Craig, Founder and CEO of Sidus Space. "This software enables a higher level of autonomy, ensuring greater efficiency and mission resilience while reducing reliance on ground resources."

The successful commissioning of the ADCS marks a critical step toward LS3's full mission readiness. With the deployment of autonomous SpacePilot, the satellite can achieve accurate sun-pointing for maximum power generation, stabilize payload orientation for improved data collection, and maintain antenna alignment for reliable communications. This milestone also paves the way for more rapid commissioning of the remaining onboard

technologies, including Sidus's proprietary sensor suite.

LS3's successful commissioning and SpacePilot deployment reinforce Sidus Space's commitment to advancing autonomous satellite technologies as part of its growing LizzieSat® constellation.

About Sidus Space

Sidus Space (NASDAQ: SIDU) is an innovative space and defense technology company offering flexible, cost-effective solutions, including satellite manufacturing and technology integration, AI-driven space-based data solutions, mission planning and management operations, AI/ML products and services, and space and defense hardware manufacturing. With its mission of Space Access Reimagined®, Sidus Space is committed to rapid innovation, adaptable and cost-effective solutions, and the optimization of space system and data collection performance. With demonstrated space heritage, including manufacturing and operating its own satellite and sensor system, LizzieSat®, Sidus Space serves government, defense, intelligence, and commercial companies around the globe. Strategically headquartered on Florida's Space Coast, Sidus Space operates a 35,000-square-foot space manufacturing, assembly, integration, and testing facility and provides easy access to nearby launch facilities. For more information, visit: www.sidusspace.com.

Forward-Looking Statements

Statements in this press release about future expectations, plans and prospects, as well as any other statements regarding matters that are not historical facts, may constitute 'forward-looking statements' within the meaning of The Private Securities Litigation Reform Act of 1995. These statements include, but are not limited to, statements relating to the expected trading commencement and closing dates. The words 'anticipate,' 'believe,' 'continue,' 'could,' 'estimate,' 'expect,' 'intend,' 'may,' 'plan,' 'potential,' 'predict,' 'project,' 'should,' 'target,' 'will,' 'would' and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the uncertainties related to market conditions and other factors described more fully in the section entitled 'Risk Factors' in Sidus Space's Annual Report on Form 10-K for the year ended December 31, 2024, and other periodic reports filed with the Securities and Exchange Commission. Any forward-looking statements contained in this press release speak only as of the date hereof, and Sidus Space, Inc. specifically disclaims any obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise.

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Investor Relations

investor-relations@sidusspace.com

Media Inquiries

press@sidusspace.com

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