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Sidus Space Unveils LunarLizzie™: A Next-Generation 800kg-Class Lunar Platform Designed with Proven Edge AI for Near Real-Time Intelligence

*LunarLizzie™ redefines lunar mission capability with autonomous operations, advanced sensors, and onboard data processing, delivering **Space Access Reimagined™**.*

CAPE CANAVERAL, Fla.--(BUSINESS WIRE)-- Sidus Space (**NASDAQ: SIDU**), (the Company or "Sidus"), an innovative space and defense technology company, today announced LunarLizzie™, its newest and most advanced satellite platform engineered for lunar and cislunar missions. This powerful spacecraft is expected to support payloads up to 800kg, integrate LiDAR, hyperspectral imaging, AI powered autonomous navigation, encryption, and multi-sensor data fusion to provide near real-time lunar terrain intelligence and environmental awareness.

LunarLizzie™ is designed with the expectation to meet the growing demands of space agencies, commercial providers, and national security customers preparing for long-term lunar exploration and infrastructure deployment.

Autonomous Lunar Intelligence, Onboard

The LunarLizzie™ design features multiple sensors combined with FeatherEdge™ 248Vi, Sidus' proprietary onboard computer and part of the Fortis™ VPX product line, which is expected to enable near real-time edge processing without relying on Earth-based ground stations.

Core capabilities are planned to include:

- **Unprecedented system redundancy** through LizzieSat™ 248Vi Fortis™ VPX architecture
- **In-flight reprogrammable rad-hard FPGA** for flexible, mission-adaptive processing
- **Multi-mission, multi-sensor support** with integrated AI
- **Radiation-hardened design** and MIL-spec temperature operation for extended reliability
- **Orbital LiDAR and hyperspectral imaging** for terrain and material analysis
- **Autonomous edge computing** for near real-time insight delivery
- **AI optimized, secure communications pipeline** for continuous live telemetry from lunar-based sensors to Earth mission control
- **Near real-time detection** of terrain shifts, dust activity, and surface hazards
- **Adaptive tasking request handling** from robotic and crewed missions

Built for Lunar. Backed by Earth™.

As part of Sidus' vertically integrated space infrastructure ecosystem, LunarLizzie™ is expected to be designed, built, and operated entirely in-house, from engineering to launch integration and mission execution. The platform will be supported by Sidus' state-of-the-art Mission Control Center in Merritt Island, Florida which will provide secure, 24/7 oversight and global data operations.

“LunarLizzie™ isn't just another satellite - it's designed for the unique challenges and complexities of lunar exploration,” said Carol Craig, Founder and CEO of Sidus Space. “With autonomous operations, near real-time sensing, and scalable payload support, we're planning on delivering what tomorrow's missions demand. This is Space Access Reimagined™.”

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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