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Motiv Space Systems and VORAGO Technologies Announce Cold Temp Silicon Qualification

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AUSTIN, TX - January 31, 2024 - PRESSADVANTAGE -
VORAGO chip tested for cold-temperature extreme applications.

AUSTIN, Texas, January 31, 2024 - Motiv Space Systems has completed cold temperature testing on VORAGO?s VA41620 ARM® MCU, confirming extreme cold performance to -185°C. Motiv has leveraged years of technology development in cryogenic electronics and is excited to share this achievement which will open the doors to a new frontier of possibility in cryogenic space environments with VORAGO?s powerful next generation technology. Performance at this level will allow Motiv to provide unique in-situ extreme environment operational capabilities for electronics operating in permanently shadowed regions of the lunar surface or deep space planetary regions where power resources for thermal management are considered precious. Motiv identifies the VORAGO technologies as enabling for its continued development of a wide range of products which serve robotics, rovers, and instrument platforms across a broad spectrum of environmental applications.

?The ability to demonstrate operational avionics at extreme cryogenic temperatures down to -185°C eliminates the burden of heating elements in the system architecture. With VORAGO?s VA41620 extreme

temperature capability, we have the potential to design motion control products without the added complexity, mass, and power budget that a heater would require,? said Chris Thayer, CEO of Motiv Space Systems. ?Motiv sees future lunar exploration and deep space science investigations as benefactors of these technologies and products. Expanding robustness beyond traditional approaches continues to drive new innovations.?

?We are excited to announce these results along with Motiv,? said Bernd Lienhard, CEO of VORAGO Technologies. ?VORAGO MCUs have a long history of supporting extreme environment applications, particularly in space. We are very happy to see our clients taking advantage of the cold temperature capacity of our components in addition to the radiation-hardening we provide.?

About Motiv

Motiv Space Systems was founded in 2014 to develop technologies which enable new space mission capabilities in the arena of motion control and space robotics. Motiv?s technologies have become the tools utilized for collecting samples on the surface of Mars, enhancing vision systems for scientific observations from space, and pioneering the building blocks of assembly, manufacturing, and servicing modular robotic systems for the future of ISAM.

About VORAGO Technologies

For over 15 years, VORAGO has led the industry in providing radiation hardened components and extreme-temperature solutions for Aerospace, Defense and Industrial projects around the globe. VORAGO?s patented HARDSIL® technology uses cost-effective, high-volume manufacturing to harden any commercially designed semiconductor component for extreme environment operations, and our custom firmware solutions support the most demanding Aerospace, Defense and Industrial applications. VORAGO is a privately held company based in Austin, Texas. Learn more at www.voragotech.com

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VORAGO Technologies

VORAGO Technologies is a leading provider of radiation hardened and radiation tolerant components for Aerospace, Defense, and Industrial applications.

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