Orbital Technologies Corporation (ORBITEC) is a subsidiary of Sierra Nevada Corporation (SNC). Based in Madison, Wisconsin, ORBITEC has over 27 years of experience developing state-of-the-art products in cost-sensitive markets. ORBITEC is committed to creating, developing, demonstrating, and deploying innovative technologies across multiple industries ensuring customer satisfaction with low-risk and cost effective solutions.
ORBITEC®
A Subsidiary of SNC

Propulsion and Propellants
ORBITEC is focused on the development and demonstration of innovative, low-cost components for liquid and hybrid propulsion systems, including the "Vortex Combustion Cold-Wall (VCCW)" thrust chamber assemblies for boost and upper stage applications. ORBITEC’s diverse activities in propellants and combustion include the synthesis of new, non-toxic propellants, the study of gelled propellant combustion and the development of new diagnostics for combustion and two-phase flows.

BioProducts and BioProduction Systems
ORBITEC is dedicated to creating the next generation of bio-agricultural products through system and service solutions that increase plant productivity on Earth and in space with dramatic operational cost savings. Our systems are optimized for growth of plant-made pharmaceuticals, industrial products and high-yield crops through lighting, control systems, automation and growth services.

Capabilities
- Two clean rooms – fabrication, coatings, inspections
- Engineering design, development, and prototyping
- Avionics, fabrication, assembly and test
- Bonded Storage
- Machine shop
- Chemical mixing and fume hood labs
- Specialty labs
- 3 Biosafety Level 2 (BSL2) controlled environment labs
- Large and Small scale propulsion test labs
- ISO9001 certified
- AS9100 certified

Emergency Response Systems
ORBITEC’s Emergency Response Systems Division, HMA Fire LLC, produces industry-leading Ultra-High Pressure (UHP) high-mobility fire apparatus. We offer superior capabilities for wildland fires and situations where high-mobility and performance with limited water resources are a must.

Environmental Control and Life Support Systems (ECLSS)
ORBITEC’s life-sustaining systems, subsystems, and components build on years of company experience and spaceflight heritage with closed human environments for space travel. Complete systems are available for air and water processing, environmental and thermal management, waste management, environmental control, cabin instrumentation, and science/payload systems.

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