FOR IMMEDIATE RELEASE
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American Aerospace Technologies and eFusionX Partner to Develop AiRangerE: A Next-Gen Electrified Long-Endurance UAS

Sterling, VA and Harrodsburg, KY – American Aerospace Technologies, Inc. (AATI) and eFusionX, Inc. today announced a strategic partnership to jointly develop the AiRangerE, an advanced electrified version of AATI's flagship AiRanger™ UAS. The collaboration brings together AATI's proven airborne intelligence and BVLOS capabilities with eFusionX's innovations in solar-electric propulsion and sustainable UAV design.

AiRangerE will feature twin electric motors, quiet six-blade propellers, and an all-new solar-integrated wing, designed to dramatically reduce operational noise, emissions, and logistics burdens while increasing endurance, payload capacity, and mission adaptability. The partnership reflects a shared vision for the future of sustainable aerial intelligence across commercial, defense, and emergency response sectors.

"The AiRangerE represents the next chapter in long-endurance UAS operations," said Chris Kluckhuhn, CEO of American Aerospace Technologies, Inc. "Electrification is the logical evolution of our platform. With eFusionX's solar-electric technology and integration expertise, we're delivering an aircraft with 99.999% mission reliability, minimal maintenance requirements, on a path to unlimited endurance..

"This collaboration accelerates the deployment of clean, quiet, and capable uncrewed systems," said Larry Williams, CEO of eFusionX. "By fusing solar and electric propulsion with AATI's BVLOS leadership, AiRangerE will lead the way in efficient, intelligent airborne surveillance."

Electrified AiRanger for High-Impact, Low-Emission Missions

Building on the success of the AiRangerX, a deployable surrogate system launched earlier this year, the AiRangerE is being designed for sustained missions across national security, energy infrastructure monitoring, environmental response, DoD applications, and beyond. Key development elements include:

- **Twin Electric Propulsion**: A dual-motor system optimized for low thermal and acoustic signatures.

- **Solar-Integrated Wing**: Thin-film photovoltaic integration for real-time energy harvesting and extended flight endurance.
- **Low-Noise Ops**: Six-blade aerodynamically optimized propellers drastically reduce acoustic footprint—ideal for covert ISR and urban monitoring.
- **Sustainable and Scalable**: Enables cleaner flight and simplifies logistics—no fuel handling, fewer maintenance intervals.
- **AI-Powered Autonomy**: Mission-adaptive routing and sensor operations to minimize human workload.
- **BVLOS Ready**: Compliant with FAA Part 91.113(b), supporting scalable CONUS and global BVLOS operations.
- **Multi-Mission Configurable**: Supports EO/IR, radar, and environmental payloads for ISR, disaster response, and industrial inspection.

A Platform for the Future of Aerial Intelligence

The AiRangerE will retain the core interoperability and mission systems of the AiRanger platform, while pushing the boundaries of what's possible with alternative energy and intelligent autonomy. The effort aligns with U.S. DoD and commercial sector goals for reducing emissions and operational costs without sacrificing performance or reliability.

"This is more than an aircraft," added Tony Dirks, COO at AATI. "It's a system built for real-world, long-term sustained deployments—merging environmental responsibility with strategic utility."

About American Aerospace Technologies, Inc. (AATI)

American Aerospace Technologies, Inc. is a leader in uncrewed aerial systems, BVLOS operations, and airborne intelligence. With expertise in sensor integration, manned-unmanned teaming, and AI-powered autonomy, AATI delivers mission-critical solutions for defense, emergency response, and infrastructure sectors.

Contact:
Tony Dirks, COO
tdirks@americanaerospace.com
541-490-8332
www.americanaerospace.com

About eFusionX, Inc.

eFusionX is an aerospace innovator developing solar-electric UAVs for long-endurance missions in defense, environmental, and industrial domains. Based in Harrodsburg, Kentucky, the company specializes in developing new platforms and retrofitting combustion drones with electric propulsion to enable quieter, cleaner, and more capable flight.

Contact:
Larry Williams, CEO
larry@efusionx-co.com
651-428-0638
www.efusionx-co.com

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