

Lockheed Martin Conducts Collaborative Unmanned Systems Demonstration

Unmanned K-MAX helicopter, Stalker XE small unmanned aircraft system (UAS), and UAS Traffic Management (UTM) systems work together to extinguish fire

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ROME, N.Y., Dec. 2, 2015 /[PRNewswire](#)/ -- Lockheed Martin (NYSE: LMT) demonstrated its ability to integrate unmanned aircraft system (UAS) operations into the National Airspace System (NAS) using its prototype UAS Traffic Management (UTM) capabilities. During the demonstration on Nov. 18, the [Stalker XE UAS](#) provided data and a precise geolocation to the [unmanned K-MAX](#) cargo helicopter, which conducted water drops to extinguish a fire, while the UTM tracked the UAS operations and communicated with Air Traffic Control in real time.

"This demonstration represents the path forward for flying UAS in the NAS using Flight Service-based UTM capabilities to extend the technology and systems that air traffic controllers know and understand," said Paul Engola, Vice President, Transportation & Financial Solutions. "We were able to successfully modify the existing K-MAX and Stalker XE ground control software to connect to the UTM services and conduct the firefighting mission."

For more than 80 years, manned aircraft have supported firefighting missions during daylight hours. Because unmanned K-MAX can fly day and night, in all weather, its insertion into firefighting operations offers the potential to triple the amount of time ground firefighters can receive aerial support.

The Stalker XE UAS worked in tandem with K-MAX to identify hot spots and fire intensity with its electro-optical, infrared camera. Its stable, high definition imaging capabilities enable day and night operations. Powered by a ruggedized solid oxide fuel cell, Stalker XE achieves more than eight hours of flight endurance.

With five decades of experience in unmanned systems for air, land and sea, Lockheed Martin's solutions are engineered to help our military, civil and commercial customers accomplish their most difficult challenges today and in the future.

For additional information, visit our website: www.lockheedmartin.com/unmanned.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that – with the addition of Sikorsky – employs approximately 126,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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