

# Lockheed Martin To Provide Additional Biological Aerosol Warning Systems For Japan

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The Japan Ground Self Defense Force recently exercised an option on an existing contract with Lockheed Martin and its trading partner Itochu, of Tokyo, for the delivery of two additional Biological Aerosol Warning Systems (BAWS).

The BAWS will be used by the Chemical, Biological, Radiological and Nuclear (CBRN) Defense Units of the Japan Ground Self Defense Forces to provide early warning of a biological attack.

The BAWS consists of an array of networked, remote sensors which can provide tactical, early-warning of the possible presence of a hazardous biological aerosol cloud. Each sensor has the capability to collect an air sample for subsequent agent identification and confirmation.

Software effectively fuses the individual sensor data to determine whether a biological cloud is present, increasing the probability of detection, while minimizing the probability of false alarms (a single sensor cannot cause a system-wide alarm). Each sensor contains an eight-channel particle counter for detection and an array of additional sensors, such as a solid-state air mass sensor for wind direction and speed, a GPS locator, a radio transmitter/receiver, a humidity sensor and a magnetic compass. Designed for operation at the battalion or company level, BAWS is simple to operate and maintain, and can be easily emplaced or relocated.

"With the unpredictable world that we live in today, we appreciate the continued confidence the Japan Ground Self Defense Forces has shown in our Biological Aerosol Warning System," said Dan Schultz, vice president and general manager of Lockheed Martin's Baltimore-based business. "BAWS provides commanders with reliable data to base their decisions on whether protective measures should be taken or not."

Lockheed Martin develops innovative solutions in homeland security areas of CBRN detection, critical infrastructure protection, port security, coastal and border surveillance and maritime domain awareness.

Headquartered in Bethesda, MD, Lockheed Martin employs about 140,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The Corporation reported 2007 sales of \$41.9 billion.

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