

NBC Defense Systems

NBC Detection, Warning, Reporting and Collective Protection Systems

- *NBC Systems in Production for U.S. Army Inventory*
- *Readily Adapted to New & Emerging Detector/
Command and Control Systems*
- *Systems Integrated with FOX NBCRS, HMMWV, M1
ABRAMS Tank, M2 BFV and Tactical Van and Shelters*
- *Biological Point Detection Systems*



Company Role: Lockheed Martin Librascope is one of the premiere developers and systems integrators of Nuclear, Biological and Chemical (NBC) defense systems, primarily for the Department of Defense. Several of our NBC Defense System products are also being evaluated for transition into the civilian arena, to be used for environmental monitoring, detection and reporting.

Multipurpose Integrated Chemical Agent Alarm (MICAD)

The MICAD program provides the first digital NBC warning and reporting system for the modern battlefield. Currently, fielded detectors serve only to warn troops in the immediate area. MICAD, through its radio and telephone communications capability, interfaces with current Command and Control Systems [such as the Maneuver Control System (MCS), the Standard Theater Area Command and Control System (STACCS) and the Global Command and Control System (GCCS)] to provide commanders at all levels, over a wide geographical area, with virtually instant information the moment an NBC incident occurs. MICAD is compatible with any detector currently in use by the U.S. Army, and completely automates the NBC incident reporting system so that troops are not distracted from their primary mission. MICAD has been accepted for installation into the U.S. Army's NBC Fox Reconnaissance System vehicle, where it will be used to control seven different detectors and systems.

Advanced Integrated Collective Protection System (AICPS)

The AICPS unit provides for: (1) heating/cooling, (2) chemical filtration and (3) power generation

within a single module which is mounted on tactical vans, vehicles and shelters. It is currently being used by the Theater High Altitude Area Defense (THAAD) system, and is being considered for use by several other U.S. military programs which produce radar, communications and C² shelters. A larger, trailer-mounted AICPS version is slated for use by several programs on expandable vans. One version of the AICPS is being modified for use on the Command and Control Vehicle (C²V), the Bradley Fighting Vehicle (BFV), the Armored Treatment and Transport Vehicle (ATTV) and the Advanced Amphibious Assault Vehicle (AAAV).

Biological Aerosol Warning System (BAWS)

Based on the MICAD system, BAWS is a biological aerosol agent detector which can be used as a stand-alone, remotely-placed device as part of a system. During Army Test and Technology Demonstrations held in June and September 1996 at Dugway Proving Ground, a BAWS network of 10 remote stations successfully detected a variety of agents during a one week period with no failures and no false alarms.

Joint Biological Point Detection System (JBPDS)

The JBPDS mounts a number of biological agent detectors into a Standard Integrated Command Post Shelter (SICPS) to provide a front-line method for detecting biological agents and to provide warning to commanders at all levels of the U.S. Joint Services (Army, Navy, Marine Corps and Air Force). The system will also be used at USN shore installations and at USAF bases. Future developments will include ship-mounted installations.



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