Joint Biological Standoff Detection System Increment 1

JBSDS Inc1

Description

The Joint Biological Standoff Detection System (JBSDS), Increment 1, is the first joint standoff early warning biological detection (BD) system. The system will be capable of providing near real-time detection (Detect to Warn) of biological attacks/incidents and standoff early warning detection/warning of biological warfare (BW) agents at fixed sites or when mounted on stationary vehicles. It will be capable of providing standoff detection, ranging, tracking and discrimination (manmade vs. natural occurring aerosols) of BW aerosol clouds for advanced warning, reporting, and protection.

Mission

The JBSDS Increment 1 will be used in conjunction with point detectors such as Joint Portal Shield, Joint Biological Point Detection System (JBPDS), and the Biological Integrated Detection System (BIDS) to enhance the overall force protection. JBSDS Increment 1 will be deployed at fixed site locations or alternately, will operate in a stationary mode on mobile platforms. Fixed sites include but are not limited to seaports, airfields, logistical centers, staging areas and command and control nodes.

Note: The JBSDS Inc 1 is not currently planned for operational use, but will be used for Service CONOPS development and sensor integration work. The JBSDS 1 would require an Urgent Need Statement to be deployed for operational use.

Capabilities

- Detection of clouds consistent with a Biological Warfare Attack at concentrations of 10,000 ACPLA at ranges up to 5 km
- Discriminate clouds with particles of biological origin from clouds with particles of non-biological origin at concentrations of 3,000 ACPLA at ranges up to 3 km
- Night operation only
- MTBFA > 14 hours
- Operationally eye safe

Users

US Army

Status

Sustainment

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