

Joint Biological Standoff Detection System (JBSDS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Provides advanced, early-warning, standoff detection of biological warfare agents (BWA) on a stationary platform or fixed site, used in conjunction with other biological point detectors for advanced warning, reporting, and protection.

DESCRIPTION

The Joint Biological Standoff Detection System (JBSDS) will be the first biological defense detect-to-warn capability to protect individual warfighters.

The JBSDS Increment 1 provides initial early warning capability against biological warfare agent attack by detecting aerosol clouds out to five kilometers with infrared (IR) light detection and ranging (LIDAR). JBSDS Increment 1 operates at fixed sites or in a stationary mode on mobile platforms. JBSDS Increment 1 system will be used for training to support Increment 2 concept of operations development.

JBSDS Increment 2 will provide 24/7 near-real-time biological warfare agent (BWA) detection and will network with existing biological detection systems to provide early warning (detect-to-warn) theater-wide to limit the effects of biological agent hazards against U.S. forces at the tactical and operational levels of war. JBSDS Increment 2 can be employed in support of various areas (e.g., fixed sites, air ports of debarkation/sea ports of debarkation, forward operating bases, amphibious landing sites), on platforms, or stationary vehicles. JBSDS Increment 2 will pass detection information and warnings through existing and planned communications networks (e.g., Joint Warning and Reporting Network). Commanders may integrate JBSDS Increment 2 outputs with information from intelligence, meteorological, radar, medical surveillance, local area operations, and other available assets to increase force protection, mitigate the consequences of biological hazards, and maximize combat effectiveness.

SYSTEM INTERDEPENDENCIES

Single Channel Ground and Airborne Radio System (SINCGARS), Combat Service Support Automated Information Systems Interface (CAISI)

PROGRAM STATUS

- **FY09:** JBSDS Increment 2 materiel development decision approved
- **FY10:** JBSDS Increment 1 systems issued for training in support of Increment 2 development

PROJECTED ACTIVITIES

- **FY11:** JBSDS Increment 2 Milestone A decision
- **FY14:** JBSDS Increment 2 Milestone B decision

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Joint Biological Standoff Detection System (JBSDS)

FOREIGN MILITARY SALES

None

CONTRACTORS

Increment 1:

Science and Engineering Services, Inc.
(SESI) (Columbia, MD)

Increment 2:

To be determined

