

Joint Biological Point Detection System (JBPDS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Protects the Soldier by providing rapid and fully automated detection, identification, warning, and sample isolation of high-threat biological warfare agents.

DESCRIPTION

The Joint Biological Point Detection System (JBPDS) is the first Joint biological warfare agent (BWA) detection system designed to meet the broad spectrum of operational requirements encountered by the Services, across the entire spectrum of conflict.

It consists of a common biosuite that can be integrated onto a service platform, shipboard, or trailer-mounted to provide biological detection and identification to all service personnel. The JBPDS is portable and can support bare-base or semi-fixed sites. JBPDS will presumptively identify 10 BWAs simultaneously. It will also collect a liquid sample for confirmatory analysis and identification. Technology refresh efforts will focus on reducing life-cycle costs and obsolescence.

JBPDS can operate from a local controller on the front of each system, remotely, or as part of a network of up to 26 systems. JBPDS meets all environmental, vibration, and shock requirements of its intended platforms, as well as requirements for reliability, availability, and maintainability.

The JBPDS includes both military and commercial global positioning, meteorological, and network modem capabilities. The system will interface with the Joint Warning and Reporting Network (JWARN).

The JBPDS is currently fielded on the Stryker Nuclear, Biological, Chemical, Reconnaissance Vehicle (NBCRV), the M31A2 Biological Integrated Detection System, and Navy Ships.

SYSTEM INTERDEPENDENCIES

In this Publication

Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV)-Stryker Sensor Suites

PROGRAM STATUS

- **1QFY11-4QFY11:** Continued unit fieldings
- **2QFY11:** Engineering change proposal (ECP) decision review

PROJECTED ACTIVITIES

- **1QFY12-4QFY12:** Developmental testing
- **1QFY13-4QFY13:** First article testing
- **3QFY14:** Engineering Change Proposal production decision review

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

Joint Biological Point Detection System (JBPDS)

FOREIGN MILITARY SALES

None

CONTRACTORS

General Dynamics Armament and Technical Products (Charlotte, NC)

