

Joint Biological Point Detection System (JBPDS)

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



DESCRIPTION AND SPECIFICATIONS

The Joint Biological Point Detection System (JBPDS) is the first joint biological warfare (BW) agent 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 installed on vehicles, ships, and at fixed sites to provide biological detection and identification to all service personnel. JBPDS is portable and can support bare-base or semi-fixed sites. The system is fully automated and is Joint Technical Architecture (JTA)-compliant. JBPDS will presumptively identify 10 BW agents simultaneously. It will also collect a liquid sample for confirmatory analysis and identification. Planned product improvements will focus on reducing size, weight, and power consumption while increasing system reliability and the number of agents presumptively identified—up to 26 agents simultaneously.

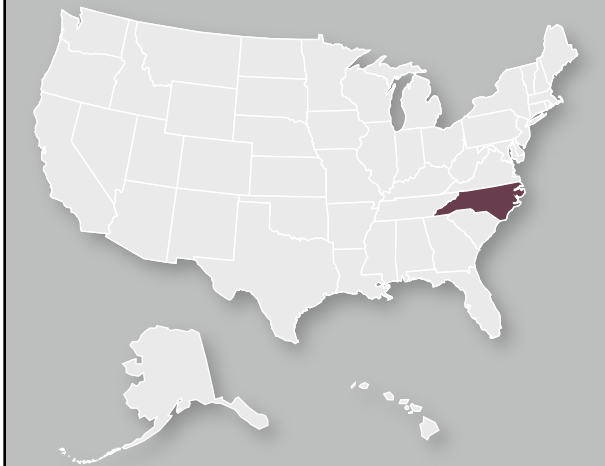
JBPDS can operate remotely via hardwire, fiber optic cable, or radio modem. A single command station can operate up to 35 JBPDS systems. JBPDS meets all environmental, vibration, and shock requirements of its intended platforms, as well as requirements for reliability, availability, and maintainability. 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).

PROGRAM STATUS

- **4QFY04** Completed fielding of 25 M31A2 JBPDS Biological Integrated Detection Systems (High Mobility Multipurpose Wheeled Vehicle [HMMWV]-mounted) to 332nd Chemical Company and U.S. Army Chemical School
- **2QFY04** Completed the Navy portion of multi-service operational test and evaluation (phases II, III, and V)
- **1QFY05** Milestone C Low-rate initial production approval

PROJECTED ACTIVITIES

- **2QFY05** Initiate fielding of the M31A2 JBPDS Biological Integrated Detection Systems (HMMWV-mounted) to 307th Chemical Company



CONTRACTORS

General Dynamics ATP Division (Charlotte, NC)

INVESTMENT COMPONENT

Modernization

ACQUISITION PHASE

- Production and Deployment