

Joint Chemical Agent Detector (JCAD)

Protects U.S. forces by detecting, identifying, quantifying, alerting, and reporting the presence of chemical warfare agents.

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



Description & Specifications

The Joint Chemical Agent Detector (JCAD) is a detector or network of detectors capable of automatically detecting, identifying, and quantifying chemical agents inside aircraft and shipboard interiors, providing handheld monitoring capabilities, and protecting the individual Soldier, airman, and Marine through the use of pocket-sized detection and alarm.

The JCAD program will provide the services a handheld combined portable monitoring and chemical agent point detector for ship, aircraft, and individual warfighter applications. JCAD will automatically and simultaneously detect, identify, and quantify chemical agents in their vapor form. The detector will provide visual and audible indicators and will display the chemical agent class and relative hazard level dosage. The

services will place the system on aircraft, vehicles, naval ships, at fixed sites, and on individuals designated to operate in a chemical threat area (CTA). The system will be capable of operating in a general chemical warfare environment, and can undergo conventional decontamination procedures by the warfighter. JCAD is designed to interface and be compatible with current and future anti-chemical, nuclear, and biological software.

The JCAD acquisition program market survey found that commercially available detectors could satisfy revised JCAD requirements. JCAD's restructured acquisition strategy will assess commercially available products to provide the most capable, mature system, at the best life-cycle cost. This strategy provides opportunities to leverage commercial developments for fielding expanded capabilities.

Program Status

- **4QFY06:** Complete operational assessments
- **1QFY07:** Complete developmental testing

Projected Activities

- **2QFY07:** Milestone C low-rate initial production decision
- **3QFY07:** Multi-service operational test and evaluation
- **4QFY07:** Full rate production decision

ACQUISITION PHASE

Concept & Technology Development

System Development & Demonstration

Production & Deployment

Operations & Support

Joint Chemical Agent Detector (JCAD)

FOREIGN MILITARY SALES

None

CONTRACTORS

Smith's Detection (Edgewood, MD)

