

Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV)–Stryker

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

To perform nuclear, biological, and chemical (NBC) reconnaissance and to locate, identify, mark, sample, and report NBC contamination on the battlefield.

DESCRIPTION

The Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV)–Stryker is the chemical, biological, radiological, and nuclear (CBRN) reconnaissance configuration of the infantry carrier vehicle in the Stryker Brigade Combat Team (SBCT).

The NBCRV–Stryker sensor suite is a dedicated system of nuclear and chemical detection and warning equipment, and biological sampling equipment. Its sensor suite provides outstanding capability on a common platform by use of a single, integrated reconnaissance and surveillance system. The NBCRV will be able to detect and collect chemical and biological contamination in its immediate environment, on the move, through point detection Chemical Biological Mass Spectrometer (CBMS)

and Joint Biological Point Detection System (JBPDS), and at a distance through the use of the Joint Service Lightweight Standoff Chemical Agent Detector (JLSCAD). It automatically integrates contamination information from detectors with input from on-board navigation and meteorological systems and automatically transmits digital NBC warning messages through the vehicle's command and control equipment to warn follow-on forces. NBCRV may replace the need for separate M93A1 Fox NBC reconnaissance systems and biological integrated detection systems.

SYSTEM INTERDEPENDENCIES

Joint Service Lightweight Standoff Chemical Agent Detector (JLSCAD), Automatic Chemical Agent Detector Alarm (ACADA), Chemical Biological Mass Spectrometer (CBMS), Joint Biological Point Detection System (JBPDS), AN/UDR-13 Radiac Detector, Chemical Vapor Sampler System (CVSS), Nuclear Biological Chemical Sensor Processing Group (NBCSPG), and Double Wheel Sampler System (DWSS)

PROGRAM STATUS

- **FY09:** Continuing additional low-rate initial production

PROJECTED ACTIVITIES

- **FY10:** Initial operational test and evaluation
- **FY11:** Full-rate production

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV)– Stryker

FOREIGN MILITARY SALES

None

CONTRACTORS

Prime vehicle:

General Dynamics Land Systems (Sterling Heights, MI)

Sensor software integrator:

CACI Technologies (Manassas, VA)

