

Non-Intrusive Inspection Systems (NIIS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Protects U.S. forces and critical warfighting materiel by inspecting cars, trucks, or cargo containers for the presence of explosives, weapons, drugs, or other contraband with nuclear (gamma rays) and X-ray technology.

DESCRIPTION

The Non-Intrusive Inspection Systems (NIIS) program is a layered force protection system which includes a range of approaches to accomplish the mission. These include: embedded commercial off-the-shelf (COTS) products, security personnel who are trained to maintain situational awareness, military working dogs, under-vehicle scanning mirrors, and handheld or desktop trace explosive detectors.

NIIS has a variety of distinct products that are added to the U.S. Army commander's "tool box." Differing characteristics include mobile; rail-mounted, but re-locatable; and fixed-site.

The primary active systems include the following:

- The **Mobile Vehicle and Cargo Inspection System (MVACIS)** is a truck-mounted system with a nuclear source that can penetrate approximately 6.5 inches of steel.
- The **Re-locatable Vehicle and Cargo Inspection System (RVACIS)** is a rail-mounted system with the same nuclear source as the MVACIS. Its versatility allows it to be used on either static locations, or deployed on rails within 24 hours to locations on a prepared rail system.
- The **Militarized Mobile VACIS (MMVACIS)** uses the same gamma source as the other VACIS products, but is mounted on a High Mobility Multipurpose Wheeled Vehicle.
- The **Z-Backscatter Van (ZBV)** is a van-mounted system that utilizes backscatter X-ray technology. It penetrates only approximately one-quarter inch of steel and is used in static locations where room is limited.
- The **Backscatter Vehicle Mounted Trailer** is a mobile inspection system for vehicles and cargo that uses the same backscatter X-ray technology as the ZBV. The BVMT trailer contains the X-Ray source and backscatter detectors and the forward scatter trailer contains the forward scatter detectors.
- **Personnel Scanners** utilizes backscatter X-ray technology to non-intrusively scan people for the presence of explosives, weapons or other contraband and are American National Standards Institute compliant. Depending on the model, these systems can scan between 140 to 240 people per-hour.
- The **T-10 Trailer** is a high-energy gantry vehicle and cargo scanner which uses a one Mega volts Liner Accelerator that penetrates up to four inches of steel while scanning.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **4QFY12:** Fielded 14 Personnel Scanners

PROJECTED ACTIVITIES

- **1QFY13-4QFY13:** Replace obsolete systems which have reached their useful life and do not provide stand-off capabilities.

ACQUISITION PHASE

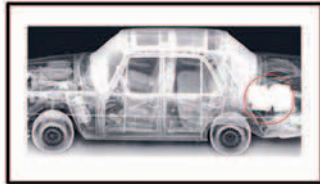
Technology Development

Engineering & Manufacturing Development

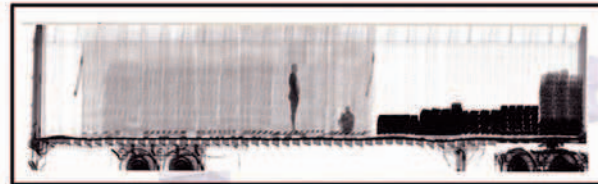
Production & Deployment

Operations & Support

**Non-Intrusive Inspection
Systems (NIIS)**



ZBV BACKSCATTER



RVACIS[®]
MOBILE VACIS



MMVACIS[®]
MILITARY MOBILE VACIS



MVACIS[®]
RELOCATABLE VACIS

FOREIGN MILITARY SALES

None

CONTRACTORS

- American Science & Engineering, Inc.
(Billerica, MA)
- Rapiscan Systems (Torrance, CA)
- Science Applications International Corp.
(SAIC) (San Diego, CA)

