Mine Protection Vehicle Family (MPVF)

INVESTMENT COMPONENT

- **Modernization**
- Recapitalization
- Maintenance

MISSION

To provide forces with blast-protected platforms capable of locating, interrogating, and classifying suspected explosive hazards, including improvised explosive devices (IEDs).

DESCRIPTION

The Mine Protection Vehicle Family (MPVF) consists of the Medium Mine Protected Vehicle (MMPV), the Vehicle Mounted Mine Detection (VMMD) system, and the Mine Protected Clearance Vehicle (MPCV). Each of the systems in the MPVF has a blast-deflecting, V-shaped hull, and each conducts specific missions.

The MMPV system is a blast-protected command and control vehicle platform that operates in explosive hazardous environments and is adaptable to a wide range of security and force protection activities. It will support Future Engineer Force (FEF) clearance companies in route and area clearance operations, explosive hazards teams in explosive hazards reconnaissance operations, and explosive ordinance disposal (EOD) companies in support operations. The MMPV will also support Chemical Biological Response Teams and Prophet signals intelligence (SIGINT) systems.

The VMMD is a blast-protected, vehicle-mounted mine-detection and lane-proofing system capable of finding and marking metallic explosive hazards, including metallic-encased IEDs and anti-tank mines on unimproved roads. It consists of two towing/mine detection "Husky" vehicles, and a set of three mine detonation trailers (MDTs). The Husky detection platform detects, locates, and marks suspected metallic explosive hazards over a three meters wide path. The Husky provides protection against mine blasts under the wheels and under the centerline, in addition to ballistic protection of the operator cab. The system is designed to be repairable in the field after a mine blast.

The MPCV provides deployed forces with an effective and reliable blast-protected vehicle capable of interrogating and classifying suspected explosive hazards, including IEDs. The MPCV has an articulating arm with a digging/lifting attachment and camera to remotely interrogate a suspected explosive hazard and allow the crew to confirm, deny, and/or classify the explosive hazard. It provides a blast-protected platform to transport Soldiers and allow them to dismount to mark and/or neutralize explosive hazards.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **3QFY07:** Milestone C, type classification-generic, and low-rate initial production for VMMD
- **1QFY08:** Milestone C, type classification-generic, and low-rate initial production for MMPV
- **1QFY08:** Milestone C, type classification-generic, and low-rate initial production for MPCV

PROJECTED ACTIVITIES

MMPV:

- **4QFY10:** Full materiel release and full-rate production decision
- **4QFY10:** First unit equipped

MPCV:

- **4QFY10:** Full materiel release and full-rate production decision
- **4QFY10:** First unit equipped

VMMD:

- **2QFY10:** Full materiel release and full-rate production decision
- **2QFY10:** Type classification-standard
- **2QFY10:** First unit equipped

ACQUISITION PHASE

Technology Development | Engineering & Manufacturing Development | **Production & Deployment** | Operations & Support

Mine Protection Vehicle Family (MPVF)

FOREIGN MILITARY SALES

MPCV:
United Kingdom
VMMD:
Canada

CONTRACTORS

MMPV:
BAE Systems (York, PA)
MPCV:
Force Protection Industries, Inc.
(Ladson, SC)
VMMD:
Critical Solutions International, Inc.
(Dallas, TX)