



# G-5's "Eye on AMC" U.S. Army Materiel Command

*Essential in Peace, Indispensable in War*

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## Rock Island Arsenal unveils new fuel testing system

Two prototypes of a new system, developed by engineers from the Rock Island Arsenal, Tank-automotive and Armaments Command and General Dynamics Technical Products, were unveiled Dec. 17 at the Rock Island Arsenal manufacturing facility.

The two prototypes of the Petroleum Quality Analysis System are now on their way to Aberdeen Proving Grounds, Md. where they will be tested.

The PQAS tests fuels to determine quality and safety. Once tested, the new PQAS will give warfighters a mobile capability to test fuels which will help reduce the number of equipment failures caused by fuel-related problems.

The PQAS is a shelter mounted on a HMMWV. It houses a state-of-the-art lab and will be capable of being deployed almost anywhere.

If testing is successful, Rock Island Arsenal will initially produce 22 units.

## AMC depots get Patriot systems back in shape

Personnel from Tobyhanna Army Depot and Letterkenny Army Depot along with Raytheon Corp., are reconditioning Patriot missile air defense systems that deployed in support of Operation Iraqi Freedom. The Patriot is credited with destroying several enemy surface-to-surface missiles during the war with Iraq.

In a three-month project that started in September, personnel at Tobyhanna have been testing and repairing radios and other electronics from the air defense systems. In addition to the launcher, the system consists of phased array radar and three shelters containing the engagement control station, information control central and a communications relay group. They are also repairing and reconditioning the Identification Friend or Foe system, part of the Patriot's phased array radar which determines if incoming aerial objects are enemy missiles or aircraft, or friendly aircraft returning from missions.

Desert sand infiltrated most of the components requiring a significant mechanical effort to remove the dirt and grit. Depending on the components' conditions, some are given a complete overhaul while others are repaired to 10-20 standards, which makes the component fully serviceable and operational without performing a complete overhaul. "There is a lot of sand; the equipment is dirty and was used very hard over there," said George Highhouse, electronics mechanic from Tobyhanna.

## RDECOM on lookout for technology for Future Combat Systems

As a member of a new International Working Integrated Product Team, the International Division of the Research, Development and Engineering Command is assisting the Program Manager-Future Combat Systems to locate foreign technology with applications in the FCS program. The key players in that network, the International Technology Centers in Europe, Canada and the Pacific Rim, are working directly with foreign governments, industries and academia.

The division has worked closely with PM-FCS for the past two years to ensure that critical FCS technology needs are included in the annual International Technology Opportunities List. The ITOL is based on technology areas identified by the Army science and technology community for potential international cooperation. The findings are captured in a web-based knowledge center and also provided to applicable proponents.

Through matrix support, the division is also helping the Department of the Army prepare for negotiations with the U.K. Ministry of Defence to work out details for an umbrella agreement on joint technology development. The U.S./U.K. Land Battlespace **memorandum** of understanding will facilitate cooperation on the Future Combat System program and other initiatives, easing technology transfers between the two countries.