

# Army Guide monthly



## # 3 (78) March 2011

- **Elbit Systems U.S. Subsidiary Awarded \$12.7 Million Spares Order from U.S. Army for Integrated Helmet and Display Sight System**
- **Thales at Global Security Asia**
- **DRS Defense Solutions Awarded \$32.5 Million Contract for Integrated Vision Systems (IVS) for the U.S. Army ABV**
- **BAE Systems launches Hybridrive® Green Parallel Propulsion System for Trucks at National Truck Equipment Association Work Truck Show**
- **ATK Receives \$54 Million Training Tank Ammunition Order from U.S. Army**
- **LM Delivers Upgraded Fleet Management Technology To UK Armed Forces**
- **Canadian Government Selects Oshkosh Defense and General Dynamics Land Systems-Canada Team to Pursue MSVS Program**
- **Saab receives significant order to the Carl-Gustaf system**
- **Harris Receives Order from Australian DoD**
- **Esri UK Invests in Defence Expertise with Senior Appointment**
- **GDELS presents the latest models of the PIRANHA vehicle and the SIAC 155/52 towed howitzer at LAAD 2011**
- **General Dynamics Awarded \$41 Million for RG-31 MRAP**
- **ATK Receives \$50 Million Contract Modification to Deliver Additional Precision Mortars to Meet U.S. Army`s Urgent Operational Needs**
- **Iraqi inspection team accepts the first batch of BTR-4 armoured personnel carriers produced by SOE KMDB**
- **Harris Receives \$11.7 Million Order to Provide Falcon III Radios for MRAP Vehicles**
- **Elbit Systems U.S. Subsidiary Awarded \$9.6M Contract to Provide Laser Target Designator and Marker to the United States Marine Corps**

## Defence Industry

### Elbit Systems U.S. Subsidiary Awarded \$12.7 Million Spares Order from U.S. Army for Integrated Helmet and Display Sight System

Haifa, Israel -- Elbit Systems Ltd. announced today that its wholly-owned U.S. subsidiary, Elbit Systems of America, LLC, was awarded a \$12.75 million delivery order for Integrated Helmet and Display Sight System (IHADSS) spares from the U.S. Army Tank-Automotive and Armaments Command (TACOM), in Rock Island, Illinois. Work on this contract will be performed in Fort Worth, Texas.

This delivery order was issued pursuant to an Indefinite Delivery/Indefinite Quantity (IDIQ) contract awarded to Elbit Systems of America, under which a total of more than \$50 million in delivery orders have been issued to date.

The IHADSS system supports the Apache AH-64 attack helicopter mission by providing an advanced helmet mounted display and sighting system that provides heads up display and accurate line of sight to the pilot and co-pilot. Its capabilities and ease of use have resulted in a solid history of reliability, crew safety and mission success.

Elbit Systems of America President and CEO, Raanan Horowitz commented: "Elbit Systems of America is pleased to provide continued support to the Apache helicopter team. We appreciate the confidence placed by the U.S. Army in our quality and on-time delivery track record on the Apache IHADSS program".

forward to welcoming you!

## Contracts

### DRS Defense Solutions Awarded \$32.5 Million Contract for Integrated Vision Systems (IVS) for the U.S. Army ABV



BETHESDA, MD. -- DRS Defense Solutions, LLC a wholly-owned subsidiary of DRS Technologies, Inc., announced that its Sensors & Targeting Systems business unit was awarded a \$32.5 million IDIQ contract to provide Integrated Vision Systems (IVS) for the U.S. Army Assault Breacher Vehicle (ABV).

DRS Sensors & Targeting Systems (STS) received the five-year IDIQ contract for up to 106 systems from the U.S. Army Tank and Automotive Command (TACOM) in Warren, Mich. An initial order valued at \$5.7 million has already been received. Deliveries are slated to begin in July of this year and continue through December.

The units will be manufactured at the DRS Sensors & Targeting Systems (STS) operations in Cypress, Calif. STS had previously delivered 76 IVS' for the U.S. Army and Marine Corps under a separate contract.

The Assault Breacher Vehicle is a tracked combat engineer vehicle designed to breach minefields and complex obstacles while providing in-stride breaching capability in order to maneuver forces. It is equipped with an IVS that allows operators to remain under the protection of armor while conducting their mission.

Additionally, the ABV IVS also includes a two-axis stabilized gimbal sensor that provides 360-degree continuous vision with image intensified TV (I2TV), infrared (IR) and a laser range finder.

"DRS is dedicated to mission success by equipping soldiers and Marines with enhanced situational awareness systems while reducing their exposure to enemy fire," noted Bob Viviano, vice president and general manager of DRS Sensors & Targeting Systems.

"This award reflects success in our strategy to be the U.S. Army's preferred supplier for these products," said DRS Defense Solutions President and CEO Richard S. Danforth. "It also underscores the critical role that DRS Defense Solutions plays in support of our country's armed forces."

## Exhibitions

### Thales at Global Security Asia

Thales will be present at Global Security Asia (GSA), organized in Singapore from 15th to 17th March.

The GSA Series is a 3-day Event presents the latest technology solutions in the Homeland Security environment.

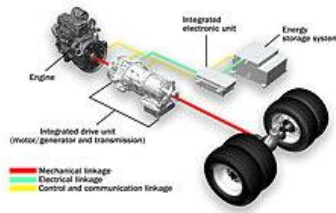
Thales's global presence and high-level expertise in all the key enabling technologies - detection, transmission, data analysis, simulation, etc. - are crucial advantages that set the company apart from other integrators. With its ability to manage large-scale projects and integrate complex systems in difficult, even hostile environments, Thales is positioned as a trusted partner to its customers in areas where security and dependability are paramount. This year, Thales will focus on:

- urban-area supervision and control systems with smart video capability
  - integrated security monitoring and supervision systems for airports
  - active protection of states and critical infrastructures in cyber space to face all types of attacks on information systems
  - CBRN mission critical intelligent system' architect
- Come and visit us at booth 400, we are looking

## Future Technologies

### BAE Systems launches Hybridrive® Green Parallel Propulsion System for Trucks at National Truck Equipment

## Association Work Truck Show



JOHNSON CITY, New York -- BAE Systems, a leading developer and producer of hybrid electric technologies, today launched its parallel hybrid green propulsion system for heavy-duty truck applications at the National Truck Equipment Association Work Truck Show in Indianapolis. The parallel system, designed for Class 6, 7, and 8 vocational trucks, is the latest version of the company's HybriDrive® green propulsion system.

The work truck show is being held at the Indiana Convention Center today through Thursday.

The HybriDrive series propulsion system — currently in service on more than 3,000 transit buses in cities around the world — meets the demands of urban transit duty cycles, which require low average speeds and frequent stop-and-go operation. The HybriDrive parallel system is designed to address the needs of vehicles with duty cycles that require higher operating speeds and less frequent stops.

“Vocational truck fleets that transition to our heavy-duty HybriDrive system will experience fuel savings not before seen in these truck classes,” said Steve Trichka, vice president of power and energy management for BAE Systems. “Our HybriDrive parallel system is the optimal hybrid electric solution for vehicles that operate in diverse duty cycles beyond standard urban operational modes.”

With more than 200 million miles of revenue service, more than 10 million gallons of diesel fuel saved, and more than 100,000 tons of carbon dioxide emissions prevented, the market-leading HybriDrive series system has proven itself to be one of the most efficient hybrid systems for the transit bus sector and has provided significant environmental benefits.

HybriDrive series and parallel technologies both use simplified and proven components and controls to deliver their capabilities. While the series system does not use a transmission, the HybriDrive parallel system is based on a single electric machine integrated between the engine and the transmission. The system can be installed with minimal impact to the vehicle, and enhances propulsion through an optimized blending of internal combustion engine power and electric power. The system's energy management and control capabilities ensure all energy flow — such as propulsion and recuperation — occurs in a highly efficient fashion, resulting in lower fuel consumption and reduced emissions.

The HybriDrive parallel systems' power and torque ratings range from 95 horsepower (Hp) to 145 Hp and 300 lbs-ft to 400 lbs-ft. The system is designed to support large bore heavy duty power plants ranging from 350 Hp

to 600 Hp, with associated torque ratings of 750 lbs-ft to 2,150 lbs-ft.

Buses equipped with BAE Systems' HybriDrive series system have transported more than a billion passengers in cities across North America and in the United Kingdom including New York, San Francisco, Toronto, Ottawa, Houston, Seattle, London, and Oxford, U.K., and powers vehicles by the world's leading bus manufacturers, including Daimler and New Flyer in the United States and Alexander Dennis and Irisbus Iveco in Europe.

The HybriDrive parallel system, in final stages of development, will see its first road trials this spring and is expected to be deployed in markets around the world in 2012.

## Contracts

### ATK Receives \$54 Million Training Tank Ammunition Order from U.S. Army

MINNEAPOLIS -- Alliant Techsystems (NYSE: ATK) has received a \$54 million order for 120mm training tank ammunition from the U.S. Army. The award is for the fourth year of a four-year contract.

The 120mm training ammunition, used by the M1A1/A2 Abrams main battle tank, includes the M865 kinetic energy and the M1002 multi-purpose anti-tank training rounds. These training rounds closely replicate tactical ammunition in appearance and ballistic performance to provide the warfighter with an affordable, yet realistic training experience.

"High-quality training ammunition is essential to the warfighter who must be prepared to react decisively on today's battlefield," said Bruce DeWitt, ATK Advanced Weapons Vice President and General Manager. "By leveraging our expertise in tactical 120mm tank ammunition, we have produced rounds that are visually and ballistically similar to their counterpart tactical rounds while meeting the reliability and safety performance requirements for use on U.S. and European ranges."

Since 1980, ATK has delivered more than four million rounds of 120mm tactical and training tank ammunition to the U.S. Army, U.S. Marine Corps, and allied militaries. Through its proven, system-level contracting approach that reduces the risk to the customer, ATK has delivered a constant supply of 120mm ammunition that is consistently reliable and affordable.

Propellants for ATK's tank ammunition are produced by ATK at the Radford Army Ammunition Plant, Radford, Va. ATK's manufacturing center of excellence in Rocket Center, W. Va. provides the high-quality metal and composite components; projectiles; and cartridge load, assembly and pack operations. Program management is headquartered in ATK's Plymouth, Minn. facility.

As a prime contractor, ATK specializes in developing innovative, advanced weapon systems that provide affordable precision and effectiveness for artillery,



mortars, tanks, naval gun systems, and tactical aircraft.

physical assets."

## Army

### LM Delivers Upgraded Fleet Management Technology To UK Armed Forces

Warminster, England -- An upgraded logistics information management software system, developed by Lockheed Martin for the UK Ministry of Defence (MOD), will provide the UK Armed Forces with significant improvements in the management of its tanks, trucks and all other ground equipment.

The latest development of the Joint Asset Management and Engineering Solutions (JAMES) programme, a web-based software system, enables users to track and monitor the performance of millions of assets, military vehicles and other equipment, used by the British Army, the Royal Navy and Royal Air Force.

The enhancements, a major improvement to the previous system that was installed in 2005, provide more functionality and ease of use, resulting in better assessments of vehicle availability, location, condition and configuration. JAMES will help the UK Armed Forces prepare for deployments more quickly and efficiently and will increase operational effectiveness.

The new version of JAMES provides a mobile capability to allow warfighters to use the system anywhere with connected or disconnected communications. It also extends the capability into the MOD's maintenance and repair workshops.

In addition, the improved JAMES is a comprehensive engineering and asset management tool, offering a far greater level of interrogation to analyse maintenance, repair and failure data, supporting better decision-making and corrective actions. This will result in improved equipment availability and reduced support costs. It provides inventory functionality allowing the soldier to track all spares while interacting directly with the supply chain, affording visibility to scheduled activities through a simple user interface.

Finally, JAMES can now manage up to five million assets, ranging from main line items to smaller component parts, compared to 120,000 previously.

"The JAMES program will provide enhanced capability for the MOD to achieve efficiency of operations as we prepare for missions," said Colonel Nick Barsby, Logistics Network Enabled Capability Project Team Leader at the Defence Equipment and Support organization. "It has been successful with users as it provides accurate, timely information in a straightforward manner which enables them to better manage their fleet. The latest enhancement is a significant move forward for equipment management."

"The aim of the program is affordability and simplicity," said Debra Palmer, vice president for Enterprise Logistics at Lockheed Martin's Global Training and Logistics. "We hope JAMES helps military leaders meet their challenges by allowing them to focus on mission-readiness, not tracking and managing the

## Defence Industry

### Canadian Government Selects Oshkosh Defense and General Dynamics Land Systems-Canada Team to Pursue MSVS Program



OSHKOSH, Wis. & LONDON, Ontario -- Oshkosh Defense, a division of Oshkosh Corporation, together with General Dynamics Land Systems-Canada, has been selected to compete for the Canadian Medium Support Vehicle System (MSVS) program. The Canadian Department of National Defence (DND) selected Oshkosh to proceed following the solicitation of interest and qualifications.

"Oshkosh is pleased to qualify for the Canadian MSVS program – a program that is well suited to our team's strengths in military vehicle and integrated systems design, as well as life-cycle sustainment," said Serge Buchakjian, senior vice president and general manager of International Programs for Oshkosh Defense. "The foundation of our MSVS program strategy is expanding Oshkosh operations and workforce in Canada, while providing the Department of National Defence with the very best long-term solution available."

Oshkosh Defense has teamed with General Dynamics Land Systems-Canada for the Standard Military Pattern (SMP) portion of the MSVS program, which will replace the Medium Logistics Vehicles, Wheeled (MLVW) fleet. The companies also are teamed for the Tactical Armoured Patrol Vehicle (TAPV) program, which will replace the Armoured Patrol Vehicle (APV) and the Coyote reconnaissance vehicle. The team unveiled a TAPV prototype in February.

The team continues to align its proposal to Canadian Government requirements for industrial and regional benefits. In February, the team announced that London Machinery, Inc. (LMI), an Oshkosh Corporation company, is set to provide in-country manufacturing for the team. The new facility in London, Ontario was designed and built with capacity for future programs. It fosters an experienced workforce to support the TAPV and MSVS programs, as well as a broad range of commercial and specialty vehicle programs.

General Dynamics Land Systems-Canada will provide systems integration and testing support for the vehicles, as well as the complete spectrum of in-country sustainment support.

Oshkosh will serve as the prime contractor for both MSVS and TAPV programs, and will leverage existing

Oshkosh vehicle platforms and technologies for its MSVS proposal submissions, including the Heavy Expanded Mobility Tactical Truck (HEMTT), Family of Medium Tactical Vehicles (FMTV), and the Medium Tactical Vehicle Replacement (MTVR). Oshkosh Defense uses the services of Valley Associates to provide Canadian-based marketing and business development.



### Contracts

#### Saab receives significant order to the Carl-Gustaf system



Defence and security company Saab has received a significant order for ammunition to the Carl-Gustaf man-portable weapon system. The order amounts to MSEK 1155.

The order comprises the production of anti-armor ammunition to the Carl-Gustaf system. Delivery will start in September 2011 and continue throughout 2012. The contract also includes an option that can give further orders for up to approximately MSEK 500, with deliveries in 2013. Production will take place in Karlskoga, Sweden.

“The order is of large value for Saab, and is estimated to create approximately 40 new job opportunities within Saab’s production unit in Karlskoga, as well as new jobs with our sub-suppliers,” says Tomas Samuelsson, Senior Vice President and Head of Saab’s business area Dynamics.

The industry’s nature is such that depending on circumstances concerning the product and customer, information regarding the customer will not be announced.

The Carl-Gustaf system has a long and successful history, but still proves itself to be a highly modern and capable ground support weapon. The system has successively been modernized and adapted to meet new requirements. With the Carl-Gustaf M3 version Saab offer state-of-the-art capability for demanding customers investing in the future.

Saab serves the global market with world-leading products, services and solutions ranging from military defence to civil security. Saab has operations and employees on all continents and constantly develops, adopts and improves new technology to meet customers’ changing needs.



### Contracts

#### Harris Receives Order from Australian DoD



Melbourne, FL/Rochester, NY -- Harris Corporation, an international communications and information technology company, has received an \$11 million order from the Australia Department of Defence (DoD) for Falcon III(r) tactical radios as part of a networked battlefield communications system in Army vehicles.

Harris is supplying the Australian DoD with Falcon III(r) RF-152(C) handheld radios along with RF-300M Trimline Vehicular Adapters for installation into a variety of Army vehicles including Army Bushmaster protected mobility vehicles. The Harris equipment provides interoperable tactical voice and data communications for both ground-to-ground and ground-to-air applications.

"The AN/PRC-152(C) handheld and vehicular radio system links vehicles and soldiers into the larger battlefield network, enabling seamless communications while on the move," said Andy Start, president, international business unit, Harris RF Communications.

The combat-proven AN/PRC-152(C) is the most-widely deployed JTRS-approved handheld radio, with more than 150,000 units deployed worldwide. The radio system is an important part of the integrated Battlespace Communications System to meet ADF's objectives, including networking the Adaptive Army.

The Falcon III(r) RF-300M-TV Trimline Vehicular Amplifier (TVA) is a low-profile, single-channel power amplifier, with a single AN/PRC-152(C) serving as the dismountable handheld transceiver. The TVA is streamlined to fit into vehicles where space is at a premium. Providing increased communications reliability in long-range applications, the TVA supplies 50 watts from 30 to 90 MHz, 20 watts 90 to 512 MHz, and 50 watts for satellite communications. Separate VHF, UHF, and SATCOM ports with automatic port switching allow users to switch between ground, ground-to-air, or SATCOM communications by simply selecting the required network on the radio.



### Defence Industry

#### Esri UK Invests in Defence Expertise with Senior Appointment

Aylesbury -- Esri UK, the largest geospatial solutions provider to UK Ministry of Defence (MOD), has appointed Adrian Friend, formerly a Major in the Royal Engineers, to the key position of Strategic

Account Manager for one of its largest MOD customers, the Intelligence Collection Group (ICG).

The ICG's mission is to deliver intelligence, information, services and force elements to defence, including deployed forces and to other government departments and international partners.

The appointment reaffirms Esri UK's commitment to providing the strongest and most strategically placed support for its customers and partners across the defence sector. Adrian brings over twenty years of experience to his new role within Esri UK having been the lead geospatial representative within the Security Policy & Operations Division, Joint Capability, MOD. Adrian also provided strategic policy and advice for senior MOD and Government staff up to Cabinet level, on Joint Intelligence, Surveillance, Target Acquisition & Reconnaissance (ISTAR) and Information Superiority.

"Expanding our already highly experienced team with a person of Adrian's calibre provides additional capabilities to ensure the best possible service for the ICG," commented Richard Waite, Managing Director of Esri UK. "Despite testing times throughout the sector, Esri UK remains committed to supporting its defence customers to the highest level, and we will continue to invest in our people to deliver that required support."



## Exhibitions

### **GDELS presents the latest models of the PIRANHA vehicle and the SIAC 155/52 towed howitzer at LAAD 2011**

VIENNA -- General Dynamics European Land System (GDELS), a business unit of General Dynamics, will present the latest member of the PIRANHA family of armoured wheeled vehicles and its most modern artillery system, the SIAC 155/52 Towed Howitzer, at LAAD Defence & Security 2011 exhibition in Rio de Janeiro (Brazil) from 12-15th April 2011.

The new light tactical vehicle EAGLE and the latest solutions for highly mobile military bridge systems will also be on display. General Dynamics European Land Systems will be on Stand No. E16, Hall 4.

#### **DISPLAY HIGHLIGHTS**

#### **PIRANHA – the state-of-the-art 8x8 Armoured Vehicle**

The latest version of the PIRANHA vehicle will raise the benchmark in the areas of survivability, mobility and firepower, marking unprecedented progress in the development of armoured vehicles. The PIRANHA is in successful operation with the Brazilian Marines in missions abroad and for internal security. The PIRANHA provides the highest levels of survivability against conventional and asymmetric threats, while having the capacity to fill all battlefield roles such as Armoured Personnel Carrier (APC), Electronic Warfare, Ambulance, Reconnaissance, Command, Mortar and even Direct Fire with turrets up to 120 mm caliber. As an APC the PIRANHA has an internal capacity for a crew

of up to 11 troops. The latest version can be supplied in either high- or low-roof configurations with open architecture, over 15 tons of payload and 120 kW electrical power.

#### **SIAC Towed Howitzer Artillery, in service and tested**

The SIAC is a state-of-the-art 155/62 caliber towed howitzer with self-propelled capabilities due to its integrated auxiliary power unit. Its advanced design meets the most demanding requirements of modern field artillery and coastal defense missions, featuring rapid deployability, excellent first round hit probability and a swift "shoot and scoot" capability for higher survivability. General Dynamics European Land Systems' Automatic Gun Laying System (AGLS), Digital Navigation Aiming and Pointing System (DINAPS) and Fully Automatic Ramming System (FIRS) are integrated in the SIAC for superior performance. The SIAC is capable of firing 10 rounds in the first minute, quick emplacement (entering: 2 min. /leaving: 1.5 min.) and has a firing range of over 40 km with Base Bleed ammunition.

#### **Advanced solutions for mobile military bridge systems**

General Dynamics European Land Systems provides a wide range of mobile military bridge systems for modern ground forces. M3 Amphibious Bridge/Rafting System and IRB Improved Ribbon Bridge represent today's most modern and fastest water crossing systems for heavy forces. REBS Rapidly Emplaced Bridge System and the modular bridge system MTB Medium Trackway Bridge are the systems of choice for medium mechanized and air-transportable troops. Light infantry and airborne units rely on the IAB Infantry Assault Bridge to cross wet and dry gaps. Used by more than 20 countries worldwide, our bridge systems have proven their reliability and performance standards in various operations.

#### **ASCOD - Multiple mission roles with excellent mobility, protection and combat ability**

The ASCOD is one of today's best Infantry/Cavalry fighting vehicles in the world. Designed and produced by General Dynamics European Land Systems-SBS and General Dynamics European Land Systems-Steyr, the ASCOD is in service with the Spanish and Austrian armies and recently has been selected by the UK FRES SV program. The VCI/I ASCOD is a tracked armoured vehicle with a monocoque hull of armour steel plates, capacity for a combat group of seven riflemen and a three-man crew, and features a high power/weight ratio thanks to its combat weight of 28 tonnes. The power pack and running gear with seven wheels, three supporting rollers and wide steel tracks provide this high mobility vehicle with maximum speeds of 70 km/h forward and 35 km/h in reverse.

#### **EAGLE - The New Survivability Standard**

To meet the increasing demand in protection and payload, General Dynamics European Land Systems offers the new EAGLE vehicle. Due to its higher payload



capacity, it can either carry more equipment or heavier protection solutions, depending on the customer's requirements. This highly mobile vehicle, with a crew of 4 - 5 soldiers, offers outstanding protection against ballistic, mine and improvised explosive device (IED) threats. Interchangeable automotive parts and components with DURO armoured or soft-skinned vehicles provide a cost-effective logistics commonality.

---

## Defence Industry

### General Dynamics Awarded \$41 Million for RG-31 MRAP



LONDON, Ontario -- The U.S. Marine Corps Systems Command has awarded General Dynamics Land Systems-Canada three delivery order modifications valued at USD\$41.4 million for upgrade kits for RG-31 Mk5E vehicles previously delivered under the Mine Resistant Ambush Protected (MRAP) vehicle program. General Dynamics Land Systems, the Canadian company's parent corporation, is a business unit of General Dynamics.

The kits will enhance the survivability and operation of the RG-31 vehicles to the latest production configuration. The delivery of the kits is expected to be completed by January 2012.

The contracts were signed through the Canadian Commercial Corporation, a Crown Agency of the Canadian Government.

---

## Contracts

### ATK Receives \$50 Million Contract Modification to Deliver Additional Precision Mortars to Meet U.S. Army's Urgent Operational Needs

MINNEAPOLIS -- ATK has received a \$50 million follow-on contract modification for production of the Mortar Guidance Kit (MGK) under the U.S. Army's Accelerated Precision Mortar Initiative (APMI) program.

The contract is in response to an Army urgent Operational Needs Statement (ONS) and will mean more precision mortars going to U.S. forces in Afghanistan. ATK was previously awarded a contract in June 2010 to field an initial quantity of rounds under the Army's ONS.

Combining GPS guidance and directional control surfaces into a package that replaces standard fuzes, the MGK transforms existing 120mm mortar bodies into precision guided munitions. This puts organic, precision engagement capability into the hands of local battlefield

commanders. The design is based on ATK's Precision Guidance Kit technology for artillery.

"Delivering affordable precision is a core capability of our business," said Bruce DeWitt, ATK Advanced Weapons Vice President and General Manager. "Using our expertise in guidance, fuzing, and gun-hardened electronics, we have proven that the timeline and cost of producing a precision weapon can be greatly reduced. In under a year, we have proven a reliable design, initiated production and fielded a precision weapon. This is truly unprecedented in our industry."

In less than one year's time, the APMI team met an aggressive schedule to field the rounds for operational assessment in theater. These achievements included the following:

- Completed sequential environmental testing for performance and safety (SET-P and SET-S, respectively)
- Established a production line with capacity to meet deliverable production quantities and quality on time
- Passed First Article Acceptance Testing (FAAT)
- Executed the necessary Lot Acceptance Testing (LAT)
- Delivered the required quantities on time for shipment to theater
- Received Urgent Material Release (UMR) authorization

Leading up to the UMR, ATK was awarded a contract in April 2010 for Phase II of the APMI program having successfully completed Phase I; a four-month design, maturation, and demonstration program that concluded with ATK winning a competitive "shoot off" at the Yuma Proving Grounds in Arizona. At the conclusion of the shoot off, ATK's MGK was selected as the best-value solution to meet the requirements for the Army's APMI. During the competition, MGK demonstrated the ability to achieve a circular error probable (CEP) of less than 10 meters, a substantial improvement over conventional mortars that are accurate to about a 136-meter CEP.

Program design and management is headquartered in ATK's Plymouth, Minn. facility while production takes place at the company's proving grounds near Elk River, Minn. and also in Rocket Center, W. Va. ATK specializes in developing innovative, advanced weapon systems that provide affordable precision and effectiveness for artillery, mortars, tanks, naval gun systems, and tactical aircraft.

ATK is an aerospace, defense, and commercial products company with operations in 24 states, Puerto Rico, and internationally, and revenues of approximately \$4.8 billion. News and information can be found on the Internet at [www.atk.com](http://www.atk.com).

Certain information discussed in this press release constitutes forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995. Although ATK believes that the expectations reflected in such forward-looking statements are based on reasonable assumptions, it can give no assurance that its expectations will be achieved. Forward-looking information is subject to certain risks, trends and

uncertainties that could cause actual results to differ materially from those projected. Among those factors are: changes in governmental spending, budgetary policies and product sourcing strategies; the company's competitive environment; the terms and timing of awards and contracts; and economic conditions. ATK undertakes no obligation to update any forward-looking statements. For further information on factors that could impact ATK, and statements contained herein, please refer to ATK's most recent Annual Report on Form 10-K and any subsequent quarterly reports on Form 10-Q and current reports on Form 8-K filed with the U.S. Securities and Exchange Commission.

The above-mentioned batch of military vehicles is planned to be shipped to Iraq in April 2011.



**Defence Industry**

**Iraqi inspection team accepts the first batch of BTR-4 armoured personnel carriers produced by SOE KMDB**



The Ukrainian UKRSPETSEXPORT state company has announced that, in accordance with the terms and conditions of the contract for supply of military vehicles to Iraq, the Iraqi inspection team accepted the first batch of BTR-4 armoured combat vehicles (totally 26 vehicles).

Most of the 26 vehicles are armoured personnel carriers fitted with Parus overhead weapon station. Apart from these, the batch includes specialized BTR-4 versions (in particular, command staff and command vehicles).

Also accepted were technical maintenance vehicles and simulators intended for training the BTR-4 crews.

The Iraqi inspection team thoroughly tested the above-mentioned batch of vehicles. In particular, every second vehicle was subjected to firing trials. The Ukrainian armoured vehicles were highly evaluated by the Iraqis.

The main contractor under this contract is the State-owned Enterprise Kharkiv Morozov Machine Building Design Bureau (KMDB). The sub-contractors of KMDB include State-owned Enterprise Kharkiv Engine Design Bureau, State Enterprise Malyshev Plant, and other enterprises Ukrainian defence-related enterprises.

According to some information that was released in the mass media earlier, the first batch of the BTR-4s was initially planned to be shipped to Iraq late in 2010, but the vehicles were not accepted by the then Iraqi inspection team. This is believed to be caused, in particular, by a low quality of Ukrainian 30 mm guns. However, the Ukrainian enterprises managed to quickly eliminate the drawbacks and ensure the required quality.

**Contracts**

**Harris Receives \$11.7 Million Order to Provide Falcon III Radios for MRAP Vehicles**



MELBOURNE, FL/ROCHESTER, NY -- Harris Corporation, an international communications and information technology company, has received an \$11.7 million order to supply Falcon III multiband handheld radio systems in vehicular configurations to the U.S. Department of Defense for use in Mine Resistant Ambush Protected (MRAP) vehicles.

The radios will be installed in U.S. Army MRAP vehicles currently in use in Afghanistan.

Harris is supplying MRAP vehicles with Harris Falcon III AN/PRC-110 vehicular radio systems. The AN/VRC-110 is an amplifier adapter that includes two AN/PRC-152(C) radios, which serve as handheld transceivers. The AN/PRC-152(C) is the most widely fielded NSA Type-1 certified, JTRS SCA-certified handheld radio, with more than 130,000 units deployed worldwide.

"The combat proven AN/VRC-110 vehicular radio system provides the U.S. DoD with reliable, multi-mission, multiband communications and is part of a broad portfolio of Falcon III family of radios," said Brendan O'Connell, president, U.S. Department of Defense business, Harris RF Communications.

The Army is acquiring the AN/PRC-152(C) radios and AN/VRC-110 systems via the Consolidated Single-Channel Handheld Radio (CSCHR) contract through the Joint Program Executive Office for the Joint Tactical Radio System (JTRS). The AN/PRC-152(C) was developed using the JTRS Enterprise Business Model (EBM). The EBM encourages companies to



develop next-generation solutions in tactical communications using their own investment capital to integrate JTRS waveform software. In doing so, the EBM stimulates competition, increases innovation, and reduces costs through software re-use.



### Contracts

## Elbit Systems U.S. Subsidiary Awarded \$9.6M Contract to Provide Laser Target Designator and Marker to the United States Marine Corps



Haifa, Israel -- Elbit Systems Ltd. announced today that its wholly-owned U.S. subsidiary, Elbit Systems of America, was awarded a \$9.6 million contract by the United States Marine Corps System Command at Quantico Marine Base, Virginia to build the Joint Terminal Attack Controller Laser Target Designator (JTAC LTD).

The project will be performed over a period of one year time, including production of the units, supplying spares, and conducting training. The contract also contains options for logistics support, which if exercised, will bring its value to \$10.8 million.

The JTAC LTD is a very lightweight, battery-powered laser target designator and marker. It is small enough to be carried by foot-mobile Marines, enabling Marines to designate targets for laser-guided munitions. The JTAC LTD incorporates Elbit Systems' high performance miniaturized Rattler designator, currently in full scale production and implemented to date on numerous airborne and ground based programs. The JTAC LTD also provides target hand-off to aircraft Laser Spot Trackers. The system incorporates the latest advances in laser generation and battery power technologies. The JTAC LTD features a high power near infrared laser pointer for targeting operations during nighttime conditions.

Elbit Systems of America President and CEO, Raanan Horowitz commented, "Elbit Systems of America is pleased to provide the Marines with this tactical capability, based on significant investment in advanced miniaturized laser technologies and a deep understanding of the operational requirements and to again have the confidence of the United States Marine Corps placed in us. This award is evidence of our proven ability to put life-saving, precision instruments in the hands of those on the frontlines."



### Future Technologies

## New protection system for K-2 to be developed this year



Agency for Defense Development (ADD) recently unveiled a plan to develop Active Protection System (APS) that will be installed on K-2 tank to protect the tank from enemy's anti-tank rockets and missiles.

The agency made public the image of the APS launcher along with 70-millimeter guided rocket during a defense science and technology exhibition, which was organized by the United States Pacific Command, in Hawaii on Mar. 15,

According to the Defense Acquisition Program Administration and ADD, the new system has been developing since 2006 with a budget of 40 billion won (\$36 million) and it is scheduled to be complete within this year.

The APS is consisted of three-dimensional detection and track radar, heat detection and track system, control computer, launching system and counter rocket, the agency said.

The agency also said it only takes 0.2 to 0.3 second for the new system to detect and track anti-tank missiles and rockets fired from enemies and fire its counter rockets to hit those missiles.

The 70-millimeter guided rocket had also received attention. The rocket, a.k.a Low Cost Guided Imaging Rocket (LOGIR), has Image Infra-Red and guided control system. The new rocket, which has been jointly developed by Korea and U.S., is definitely not a new type of weapon as it has been created with low cost.

In a symposium two years ago, ADD said the new rocket could fly at the speed of Mach 2.0 with fire and forget method. The agency also said that the Army, Navy and Air Force already showed interest to get the rocket to install in their vehicles and planes.

In the meantime, the agency's president Park Chang-kyu said during the exhibition that the ADD will further develop eco-friendly green energy and low-carbon future energy weapon system as well as a system to be used in military training and combat experiment with simulation.



### Defence Industry

## Navistar Defense to Deliver Additional Vehicles and MRAP RPG Nets for Afghanistan

WARRENVILLE, Ill. -- Navistar Defense, LLC today announced that it has received \$97 million in delivery orders from the U.S. Army TACOM Life Cycle Management Command. The delivery orders include 265 general troop transport vehicles, 160 buses and 829 rocket propelled grenade (RPG) net kits for International® MaxxPro® Mine Resistant Ambush Protected (MRAP) units currently in service.

“The key to success in Afghanistan is ensuring their security forces have the proper training, equipment and support and we are uniquely positioned to continue to provide these vehicles and support to the Afghan government,” said Archie Massicotte, president, Navistar Defense. “Today, we have more than 11,000 of these vehicles operating in country and I believe that shows the strength of our Navistar proposition. We continue to respond quickly to the needs of both U.S. and Allied forces and today that means providing RPG nets to arm our warfighters against evolving threats.”

The U.S. Department of Defense has committed its support to the Afghan security forces and Navistar is expected to be well positioned to support the security mission going forward with a full complement of vehicles, services and parts.

General troop transport vehicles are based on the International® WorkStar®, or 7000-MV, platform and will support Afghan National Police and Afghan National Army security missions. Buses will transport Afghan troops and equipment throughout the country while RPG nets will be retrofitted onto MaxxPro units operating in theater with U.S. forces. Other variants serving in Afghanistan include wreckers, water tankers, fuel trucks and MaxxPro MRAP vehicles. RPG nets will support MaxxPro MRAP units currently operating in theater where threats continue to change.

General troop transport vehicle production will occur at the company’s Garland, Texas, and West Point, Miss., facilities. Bus production will occur in Tulsa, Okla. Deliveries are scheduled to begin in the fall of 2011 and be completed by the fall of 2012. RPG nets will be delivered by summer 2011.

