



**PRECISION STRIKE
ASSOCIATION**

Affiliate, National Defense
Industrial Association

1st Quarter
2012
Vol.25, No.1

"From Cruise Missiles Association to Precision Strike Association we have been dedicated to advancing the art and science of precision engagement concepts and technology for more than 20 years."

VISION STATEMENT

We aspire to be the premier association dedicated to advancing the art and science of precision engagement concepts and technology.

To accomplish this, we will promote the development of systems and procedures in order to locate, fix, track, target, and attack fixed, moving, and relocatable targets.

We recognize that battlespace management, the network within which it functions, and the adjunct command and control requirements are crucial to success on the battlefield.

PSA has a global perspective and welcomes international participation.

PSAR-12 to Showcase Precision Weapons & Acquisition Adaptability

Due to last year's very successful joint venture with Eglin AFB's Air Armament Center (AAC) and the Air Force Research Laboratory (AFRL) that focused on precision strike with coalition partners, the Precision Strike Association (PSA) is privileged to announce that the AAC and the AFRL will once again be our co-hosts for the March 20-21, 2012 Precision Strike Annual Review (PSAR-12) that will take place at the Emerald Coast Convention Center at Fort Walton Beach, FL.

Weapons Reform—Adapting Acquisition Processes for Today is the theme. The objective of PSAR-12 is to keep our focus on the current challenges and the importance of continuing to deliver value for the warfighter. We must concentrate on adapting acquisition processes for weapons reform by ensuring further improvements in the acquisition of weapons systems by making affordability a requirement and by seeking to eliminate redundant mission capability portfolios.

PSA is delighted to present two keynote speakers who are important visionaries and top acquisition leaders to address the precision strike community during PSAR-12. USAF Major General Kenneth Merchant is the Commander of the AAC, and the Air Force Program Executive Officer for Weapons, Air



Katrina McFarland,
President DAU &
performing as ASD(A)



**Major General
Ken Merchant, USAF**
Commander, AAC

Force Materiel Command, at Eglin AFB. Mrs. Katrina McFarland serves as the President of the Defense Acquisition University (DAU) and is performing the duties of the Assistant Secretary of Defense (Acquisition) (ASD(A)) for the Under Secretary of Defense for Acquisition, Technology and Logistics, Office of the Secretary of Defense.

Additionally, we are excited that other leadership speakers will be joining us from OSD, the Joint Staff, USSO-COM, Military Departments, the international arena, the AAC, the AFRL and Eglin's NDIA Chapter.

Major General Merchant will keynote Opening Day by presenting an AAC perspective regarding the development, acquisition, testing, deployment and sus-

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Chairman's Column

I hope you were able to attend this year's Winter Roundtable. If you had, you were treated to an incredible lineup of speakers who addressed the potential impact of the new defense strategy on the precision strike community. You would have also witnessed the 15th presentation of the prestigious William J. Perry Award, presented by Dr. Paul Kaminski, Chairman of the Defense Science Board, to the Massive Ordnance Penetrator team consisting of the USAF, The Boeing Company and the Defense Threat Reduction Agency.

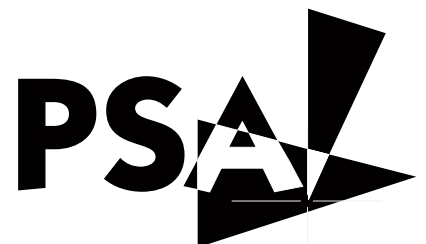
As I write this column we try to digest what lies ahead for our community and the defense industry as a whole given the new defense strategy and the President's Budget. We see significant cuts in military spending while defense challenges continue to rise. We also find ourselves in the midst of a Presidential election and that of a good many lawmakers on Capitol Hill. When one considers the challenges we face at home and abroad, we must immerse ourselves in this election cycle at the local, state and national levels. Educate yourself on the issues and the candidates, and then exercise your right to vote as if your life and livelihood depended on it. They just might.

On top of all the fiscal worries, global violence and election follies, it is Winter. We cannot make these things go away, but the Precision Strike Association, in a joint venture with the Air Force Research Laboratory and the Air Armament Center at Eglin AFB, can offer a ray of sunshine to you — the 2012 Precision Strike Annual Review to be held March 20-21 in beautiful

Fort Walton Beach, FL. The theme of PSAR-12 is *Weapons Reform — Adapting Acquisition Processes for Today*. Join us and hear from OSD, AAC and AFRL leadership on topics important to you, your business and our community.

2012 marks the centennial of Marine Corps aviation. It has been a long journey for our Corps with humble beginnings in precision strike. The first Marine aviator, Alfred A. Cunningham, lead the way by delivering ordnance in support of ground forces in the waning months of World War I. This was the start of the "A" in MAGTF, the Marine Air Ground Task Force. USMC aviation celebrates 100 years while proudly serving across the globe, demonstrating the meaning of precision strike to America's enemies. It is fitting that PSA is heading to the Florida Panhandle as the next generation of Marine aviation has stood up its first squadron, VMFAT-501, at Eglin AFB with F-35B aircraft expected to arrive at some point this centennial year. Look for centennial events around the country at www.flym-caa.org and join in the celebration.

Andy McHugh
Chairman of the Board
Precision Strike Association



Winter Roundtable 2012 Wrapup:

Precision Strike in an Era of Affordable Constraints

The Precision Strike Association (PSA) held its Precision Strike Winter Roundtable 2012 (WRT-12) on January 17, 2012 at the Crystal Gateway Marriott, Arlington, Virginia.

Andy McHugh, PSA's Chairman of the Board, and Ginny Sniegon, PSA's Programs Chair, welcomed senior DoD and U.S. military officials and industry representatives to the popular all-day unclassified forum geared to address national defense policies, strategy and congressional perspectives.

The future is filled with new challenges—not the least of which is affordability—but also with opportunities for government and industry collaboration on precision engagement.

This year's Winter Roundtable provided a forum that was focused on gaining insight into how the precision strike community should plan to address and meet the future key security challenges facing the United States in the precision strike arena. And PSA remains focused on developing precision engagement programs that can be fielded rapidly to meet critical warfighter needs.

Much of the discussion centered on President Barack Obama's new ten-year defense strategy guidance unveiled in early January (see page 7). And a special feature of this year's Winter Roundtable was presentation of the William J. Perry Award to the Massive Ordnance Penetrator (MOP) Team.

Jay Rouse, Senior Strategist, Strategic Plans & Policy Directorate (J-5), The Joint Staff, led off the day's thoughtful presentations with a discussion of the Joint Staff's current processes, strategies and reviews that will impact the way ahead. In his key assignment, he has been involved in development of every major strategy document emerging from the Pentagon.

He outlined how the Joint Strategic Planning System (JSPS) is structured and how it is being used to implement the new defense strategy guidance. The JSPS, said Rouse, is the primary means by which the Chairman of the Joint Chiefs of Staff executes his responsibilities, which include the conduct of independent assessments and provision of a "unified strategic direction" to the U.S. Armed Forces.



Jay Rouse

"It takes a lot of documentation and strategic direction to move the Department in a unified way. Strategy drives the process. You need to get the strategy straight, otherwise you waste money, resources and lives," said Rouse.

"The nice thing about the JSPS is that it provides a ready way to change your strategic direction relatively rapidly. We are moving out to rapidly incorporate the new defense strategy in a myriad of ways. We will do so with a comprehensive plan across different functions, in a unified strategic direction," Rouse stated.

Alan R. Shaffer, Principal Deputy Director, Defense, Research & Engineering, discussed science & technology priorities in support of precision engagement. He spoke of the directions the R&E and S&T communities are taking in the face of a shrinking defense budget, framing his talk in terms of the rollout of the new defense guidance document.



Alan R. Shaffer

S&T focus areas include countering anti-access/area denial (A2AD) challenges that are expanding globally, with A2AD priorities centered on: electronic warfare, cyber warfare, protecting space assets, counter-missile/missile defense, development of surface-to-surface ship missiles and undersea warfare. "These will be the areas of growth within the R&E community, said Shaffer.

S&T priorities include countering weapons of mass destruction by coming up with new concepts and technology for remote identification of nuclear, chemical and biological material. Another area of emphasis is achieving autonomous systems that reliably and safely accomplish complex tasks.

Shaffer listed the key precision strike systems in the pipeline, which include the Small Diameter Bomb (SDB) II, the Joint Air-Ground Missile (JAGM) and an alternative warhead for the Guided Multiple Launch Rocket System. "Most of these will be fielded," he believes.

And future precision strike systems, he said, must be able to operate at longer ranges against complex, integrated air defense systems, suggesting high speed, autonomous networked weapons with enhanced warheads able to go against very deep hardened targets.

Shaffer suggested that the MOP would be made even more lethal and discussed specific technology development areas for a Long Range Anti-Ship Missile (LRASM). He

also touted hypersonics research as one of the ways ahead.

USAF Major General Craig A. Franklin, Vice Director of the Joint Staff, spoke in lieu of the Joint Staff's Director, Vice Admiral William E. Gortney, USN, who was not available to participate in Winter Roundtable 2012.

Maj Gen Franklin is a veteran fighter and bomber command pilot. Prior to assuming his current position in November 2010, he was the Commander, 332nd Air Expeditionary Wing, Joint Base Balad, Iraq. He has also served as the executive assistant to the Vice Chairman of the Joint Chiefs of Staff.

Maj Gen Franklin discussed the security challenges facing the Nation with a focus on the way ahead in an austere budget environment. Franklin has been "on both sides of the precision strike enterprise," in the test and evaluation community and on "the consumption side as an operator." He said he is particularly impressed with the Sniper Pod and the GBU-54 Laser Guided JDAM based on first-hand experience.

"The success of precision guided munitions in Iraq and Afghanistan has been a real testament to what you can do collectively to bring precision engagement to the warfighter. We now process the technology, tactics, techniques and procedures that are the envy of the entire world. We produce the best weapons, the best precision engagement capacity," he stated.

"(But) we are about to enter a new era that will test our ability to adapt. The question we need to ask ourselves is how to achieve our national objectives in an era of fiscal austerity and a world that is clouded with so much uncertainty. But whatever approach we take, precision munitions will play a prominent role in our thinking," he added.

Franklin said the new defense strategy "shifts away from Cold War tenets and the Iraq and Afghan conflicts" and will build a joint force in an era of fiscal constraint. "It attempts to right-size the U.S. ground forces and shifts the focus from long duration stability operations to a better balance across a full spectrum of operations," he stated. "We hear a lot of talk about backing off from a two-war scenario. I argue that without a full mobilization, we've never been able to fight two simultaneous combat operations."

"We will become a smaller force...but the art of the reduction will be to ensure we have adequate ground forces that are properly trained and equipped to meet our treaty obligations and give this and future administrations options in the event of a conflict," Franking added.



**Major General
Craig Franklin,
USAF**

Regarding weapons acquisition, Maj Gen Franklin said "we need to be more willing in the future to trade off exquisite capabilities to ensure interoperability, reliability and reduced cost. We need fast, good and cheap."

USAF Col Doug Hagen, Chief, C2 Networking (A6WW), Headquarters, USAF, discussed how improvements are being made for precision engagement information assurance with a key goal to provide joint force commanders the ability to better strike with precision.

The current aerial layer network is the Battlefield Airborne Command Node (BACN), but the vision is for a Joint Aerial Layer Network (JALN), which is "the future for collaboration across space, air, ground and the sea surface." Hagen said JALN will cover four gaps: connectivity, capacity, information sharing and network management. Remotely piloted aircraft, he said, "will play a greater role in data delivery" and "JALN will not replace satellite communications. It will augment our space-based assets."

Scott Arnold, Vice President, Precision Fires for Lockheed Martin, then offered an industry perspective on the challenges faced in producing affordable precision munitions.

"There are no easy answers," he said, but he laid out some potential solutions.

The challenges are numerous including long delays between program phases, procurement cutbacks and contracting inefficiencies. But there are savings opportunities, such as multi-year procurement, foreign military sales, multi-national co-development and product improving existing weapons. Another way, Arnold believes, is buying at affordable production rates, which requires determining the minimum economic buy and right-sizing industry's capacity to meet that reduced production.

Once again, **Dick Rumpf**—President, Rumpf Associates International—moderated the Congressional Staffers' Panel that addressed priorities and issues that Congress must face during 2012.

Representing the HASC was Ms. **Jenness Simler**, who serves as the Committee's policy director. She tracks regional security issues, nonproliferation, acquisition policy and export control, among other matters. She came to Capitol Hill from the Pentagon. No stranger to the Winter Roundtable, **Creighton Greene**, keeps tabs on USAF/USN/USMC aviation programs and



**Colonel
Doug Hagen, USAF**



Scott Arnold



Jenness Simler

naval shipbuilding for the SASC

Simler offered a HASC perspective on the FY2013 defense budget request as impacted by the Budget Control Act and the potential consequences of sequestration. She said “there remains a lot of uncertainty as the new defense strategy goes forward.” Simler stated “there is no doubt that precision strike has changed the face of warfare, but such programs may not be spared from budget cuts. I don’t know if increased reliance on precision strike will necessarily lead to increased investment.”

Greene said “the potential of sequestration and the current budget environment establishes a backdrop against which everything we’re doing in defense will be measured over the next several years. This is a sea change.”

Tom Dee, Director, Joint Rapid Acquisition Cell (JRAC), AT&L, outlined how the OSD is conducting rapid, fast lane acquisition to speed critical equipment to the warfighter.

“The idea is to make rapid acquisition an enduring capability,” said Dee. “It takes senior level attention to keep everybody driving on the same path outside of the normal process,” he added. New rapid acquisition authority waives statutes and regulations for



Creighton Greene

testing and procurement. It has been used a dozen times for counter-IED, ISR and force protection rapid initiatives. The Very Low Collateral Damage Weapon (VLCDW) Precision Lethality MK-82/BLU-129B is a fast-lane initiative.

Dr. Peter Huessy, President of Geostrategic Analysis, a defense-consulting firm, was the final speaker of WRT-12. He believes “the assumption that the defense cuts being proposed are similar in numbers and kind to previous U.S. military draw-downs is bogus. They are vastly greater. With an all-volunteer force, the cost of doing business is more expensive. That’s the nature of the beast. We’re scoring tremendous savings in Pentagon spending, but we’re killing the Department of Defense.”



Dr. Peter Huessy

He also believes Iran is the chief threat to the United States, with “coercion, blackmail and terror instruments of state policy for Iran.” In the years to come, Huessy said, “the location of energy supplies and energy supply routes will be pivotal landmarks on the global strategic map. Key producing areas, like the Persian Gulf, will remain critically important, but so will oil chokepoints like the Strait of Hormuz.” ■



Tom Dee



Dr. Kaminski, MOP Team Members and PSA's Gary Seyster



PSA's Gary Seyster, Col D'Amico and Dr. Kaminski

PSA would like to thank the following corporations for sponsoring WRT-12

- Kaman Precision Products
- Lockheed Martin
- Marotta Controls
- Northrop Grumman



Dr. Kaminski, MOP Military, Industry & DTRA team members accept Perry Award



Dr. Paul Kaminski, Chairman DSB



Colonel Leonard D'Amico, USAF accepts William J. Perry Award

MOP Receives 16th Annual William J. Perry Award

A high point of the 2012 Precision Strike Winter Roundtable was the presentation of the PSA's 16th annual William J. Perry Award to the Massive Ordnance Penetrator (MOP) Team. The prestigious award is presented annually to programs that strengthen the country's national security by applying precision strike capability to Department of Defense systems.

The MOP Team—the U.S. Air Force, The Boeing Company and the Defense Threat Reduction Agency—achieved technical excellence in the development, test and fielding of the MOP, the Secretary of Defense's number one weapon program.

The MOP Quick Reaction Capability will satisfy an urgent operational requirement for attacking the most challenging types of hardened and underground targets and is more lethal than any current hand and deeply buried target conventional weapon.

The MOP is a 30,000-pound class Inertial Navigation System/Geospatial Positioning System (INS/GPS guided penetrator bomb; 20.5 ft. long, 31.5-in. diameter, with approximately 5,600 pounds of explosives. The MOP program was launched in 2004, with flight tests from a B-52 bomber in 2010. It transitioned to an Air Force Quick Reaction Capability program and was integrated on the B-2 stealth bomber.

The MOP incorporates proven technology into its design, including Joint Direct Attack Munition GPS guidance, ATACM actuators and controllers and Small Diameter Bomb fuzes. The MOP program has demonstrated penetrator survivability, fuze function, and high-order detonation. An initial capability of over 20 MOPs has been fielded.

But Defense Secretary Leon Panetta, in a recent interview with The Wall Street Journal acknowledged the bomb's shortcomings against some of Iran's deepest bunkers. He said more development work would be done and that he expected the bomb to be ready to take on the deepest bunkers soon.

Dr. Paul Kaminski—Chairman, Defense Science Board—made special remarks during the WRT-12 award ceremony. Kaminski reviewed his 45 years of

involvement with precision strike research, development and production and he looked ahead at the future of precision weapons.

Kaminski said: "I'm pleased to honor the recipients of the Perry Award who have made some important and substantial advancements to our Nation's hard target penetrating capabilities."

In announcing this year's Perry Award winner, PSA Membership Chairman James Seyster, said "This joint government-industry team created in the short term a truly unique way to attack the most challenging types of hardened and deeply buried targets that exist, with a focused and maximal lethality well beyond any of today's family of non-nuclear weapons."

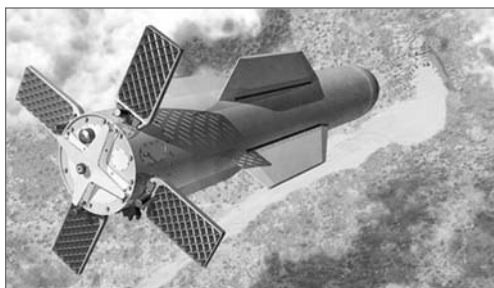
The award was accepted by USAF Colonel Leonard D'Amico, Headquarters, USAF, A5 Requirements, who said: "We are humbled to be chosen as the winner of this prestigious award. MOP is an awesome, awesome arrow in the quiver of this Nation's arsenal."

Named after the former U.S. defense chief and precision strike weapons advocate, others to have received the prestigious Perry Award include: Dr. Perry, the first recipient (1997); former Vice President Dan Quayle (1998);

RADM Walter M. Locke, USN (Ret.) (1999); The Johns Hopkins University, Applied Physics Laboratory (2000); NAVSTAR Global Positioning System Joint Program Office (2001); Rep. James V. Hansen (R-UT) (2002); Terry Little, a well-respected acquisition reform pioneer (2003);

USAF/USN/Boeing JDAM Program Team (2004); U.S. Warriors of Operation Enduring Freedom and

Operation Iraqi Freedom (2005); The Tactical Tomahawk Team (2006); The Small Diameter Bomb Team (2007); Guided Multiple Launch Rocket & High Mobility Artillery Rocket System Team (2008); U.S. Special Operations Command Stand-Off Precision Guided Munitions (SOPGM) Quick Reaction Team (2009); the Sniper Advanced Targeting Pod (2010); and, the Project Dragon Spear Joint Acquisition Task Force (2011). ■



Massive Ordnance Penetrator



The MOP successfully completed a static tunnel lethality test in 2007 at DTRA's weapons tunnel complex at White Sands Missile Range, NM.

New U.S. Defense Strategy Revealed

President Barack Obama on Jan. 5, 2012 unveiled a defense strategy that he said will allow the U.S. military to remain the pre-eminent military force in the world while slashing military spending in a responsible, balanced manner.

The Commander-in-Chief disclosed a new ten-year defense strategy guidance entitled *Sustaining U.S. Global Leadership: Priorities for 21st Century Defense*. “The tide of war is receding but the question that this strategy answers is what kind of military will we need long after the wars of the last decade are over,” Obama told a Pentagon news conference alongside Defense Secretary Leon Panetta.

The president emphasized that even after enactment of the \$487 billion in reductions over 10 years that was agreed with Congress in August, the defense budget would still be larger than it was toward the end of Bush’s administration.

“Over the past 10 years, since 9/11, our defense budget grew at an extraordinary pace,” Obama said. “Over the next 10 years, the growth in the defense budget will slow but the fact of the matter is this – it will still grow because we have global responsibilities that demand our leadership.”

The U.S. military will regroup and focus on broader challenges, especially as they pertain to the Asia-Pacific region, the president said. The U.S. also will work to maintain progress in the Middle East, Central Asia and North Africa. “We are supporting political and economic reform and deepening partnership as to ensure regional security,” he said.

The president vowed to avoid mistakes made in downsizing the military after past wars, such as the “hollow force” of the late 1970s and

early 1980s that followed the Vietnam War. “We will ensure that our military is agile, flexible and ready for the full range of contingencies,” Obama said.



President Obama briefs the press on a new defense strategy. Defense Secretary Panetta also offered remarks at the Pentagon.

The U.S. will continue to invest in capabilities to combat the full-range of threats, the president said. He specifically mentioned investing in intelligence, surveillance and reconnaissance (ISR) programs and counterterrorism capabilities, combating anti-access technologies, countering weapons of mass destruction and prevailing in all domains, including the cyber world.

Looking beyond the wars in Iraq and Afghanistan, Obama said the U.S. will be able to ensure its security with smaller conventional ground forces. “Yes, our military will be leaner,” he said, “but the world must know the U.S. is going to maintain our military superiority with armed forces that are agile, flexible and ready for the full range of contingencies and threats.”

“As a global force, our military will never be doing only one thing,” Defense Secretary Panetta said. “It

will be responsible for a range of missions and activities across the globe of varying scope, duration and strategic priority. This will place a premium on flexible and adaptable

forces that can respond quickly and effectively to a variety of contingencies and potential adversaries.”

Continuing investments in special operations forces, in new technologies, such as ISR and unmanned systems, will help the force “retain and continue to refine and institutionalize the expertise and capabilities that have been gained at such great cost over the last decade,” Panetta said.

Most importantly, the secretary added, “we will

structure and pace reductions in the nation’s ground forces in such a way that they can surge, regenerate and mobilize capabilities needed for any contingency.”

The plan drops the wording of a longstanding DOD paradigm for the military to be capable of fighting and prevailing in two land wars simultaneously. “We will be fully prepared to deter and defeat aggression,” it says. “Even if we are committed to a large-scale operation in one theater, we will be able to deny an opportunistic adversary the ability to achieve its objectives in another theater.”

“Make no mistake, we will have the capability to confront and defeat more than one adversary at a time,” Panetta said at the briefing.

Pentagon planners used the strategy to fund the FY2013 budget request. Spending priorities in the FY2013

See **Defense Strategy**, Cont. on page 8

Defense Strategy,

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defense budget request call for reductions in the end strength of the Army and Marine Corps, an increase in special operations forces and maintaining the number of big-deck carriers.

The Pentagon's budget topline request is set at \$525 billion for FY2013 with an additional \$88.4 billion for overseas contingency operations – mostly in Afghanistan. This is down from \$531 billion and \$115 billion, respectively, in this fiscal year.

The request puts the Army on a path to drop to 490,000 soldiers and the Marine Corps to 182,000 Marines over five years. Currently, the two services have 562,000 and 202,000

active-duty members, respectively.

The budget will eliminate two forward-based Army heavy brigades in Europe. Instead, brigades will rotate in and out of the area. The U.S. and European allies also will look to share costs for new capabilities such as the alliance ground surveillance program.

The Navy will retire seven older cruisers and two amphibious ships early. The Air Force will eliminate six tactical air squadrons and procurement of the F-35 Joint Strike Fighter was slowed. The budget will fund the next-generation bomber and modernization of the submarine fleet.

The Pentagon is under a threat of even deeper cuts as a result of last summer's deficit-reduction deal. If

Congress doesn't come up with a new plan for spending cuts or additional taxes, the Pentagon budget will be slashed by a total of roughly \$1 trillion over a decade beginning in January 2013.

The budget request was built without an eye toward an additional half-trillion-dollar spending cut called for in a Budget Control Act "sequestration" provision if Congress cannot agree on an alternative. Panetta has called the potential effects of those additional cuts "devastating." Pentagon Press Secretary George Little said department leaders are fully aware of the risks doubled spending cuts would carry. "Our sincere hope is Congress will stop sequestration from happening," he said. ■

News Briefs

BACN on Global Hawks

The USAF has awarded Northrop Grumman a \$47.2 million contract for the purchase and integration of two more Battlefield Airborne Communications Node (BACN) payloads on two existing Block 20 Global Hawk unmanned aircraft.

BACN is a high-altitude, airborne communications and information gateway system. The persistent connectivity that BACN provides improves situational awareness and enables better coordination between forward-edge warfighters and commanders. BACN bridges and extends voice communications and battlespace awareness information from numerous sources using a suite of computers and radio systems.

After the BACN payloads have been integrated on the Block 20 Global Hawks, the aircraft will be designated as USAF EQ-4B

unmanned systems. Northrop Grumman is the prime contractor for the development, fielding and maintenance of the BACN system and the RQ-4 Global Hawk aircraft. ■

\$24.2M Joint Programmable Fuze Order

Kaman says its Aerospace segment has been awarded a contract modification in the amount of \$24.2 million for the procurement of Joint Programmable Fuzes (JPF). The award is a follow-on order raising the total under Option 8 of Kaman's JPF contract with the USAF to \$76.8 million. The award raises the JPF program backlog to \$149.2M, providing confidence in production levels through 2013.

Kaman is the sole provider of the JPF to the USAF and twenty-three other nations. The JPF allows the settings of a weapon to be programmed on wing in flight and is the current bomb fuze of choice of the USAF.

The JPF is used with a number of weapons including general purpose bombs, and guided bombs that use JDAM or Paveway kits, on U.S. aircraft such as F-15, F-16, F-22, A-10, B-1, B-2, B-52 and the MQ-9 UAV as well as on international aircraft such as Mirage 3 and Gripen.

Kaman produces the JPF at facilities in Orlando, FL and Middletown, CT. ■

Boeing Receives More JDAM Work

Boeing recently received a \$126 million contract from the USAF for 5,000 Joint Direct Attack Munition (JDAM) tail kits. Deliveries will begin in June 2013 and continue through May 2014. This is Boeing's third major USAF contract within a year for conventional JDAM kits.

Boeing completed the development and testing cycle for its Laser JDAM less than 17 months after it was identified as an urgent opera-

tional need in early 2007. The company delivered the first production laser sensor kits to the USAF in May 2008 and to the U.S. Navy in October 2008. Laser JDAM was successfully employed by the Air Force in combat in Iraq in August 2008.

In February 2010, the Navy selected Laser JDAM to satisfy its direct-attack moving target capability mission requirement. Naval Air Systems Command awarded an \$8 million contract to Boeing in March 2011 for low-rate initial production of 700 laser sensor kits for the DAMTC program. A full-rate production contract for Laser JDAM sensors is expected in early 2012.

Kristin Robertson, Boeing Direct Attack Weapons Director, said “adding the laser sensor to the conventional JDAM kit is an affordable option that’s easy for ordnance crews to install and very straightforward for pilots already familiar with JDAM.”

JDAM is a low-cost guidance kit that converts existing unguided free-fall bombs into near precision-guided weapons. Since starting JDAM production in 1998, Boeing has built more than 230,000 JDAM tail kits in its St. Charles, MO, facility. ■

Precision 81mm Mortar Round

General Dynamics Ordnance & Tactical Systems and BAE Systems have teamed to develop, demonstrate and produce the 81mm Roll Controlled Guided Mortar (RCGM), an affordable 81mm precision mortar round. The companies have been maturing the guided mortar technology over the last 12 months and will be conducting tactical demonstrations early in 2012.

The 81mm RCGM uses the current UK L41 round and US M734A1 fuze, but incorporates GPS guidance and General Dynamics’ patented

Roll Controlled Fixed Canard (RCFC) technology to provide a precision strike capability.

Michael Wilson, President of General Dynamics Ordnance & Tactical Systems said, “by using existing warheads and fuzing with our low-cost control and guidance system, we can offer a truly affordable precision mortar round to the US, UK and allies across the world.” ■

JSOW C-1 Testing Completed

The USN recently completed developmental testing (DT) of the Raytheon Joint Standoff Weapon C-1. The conclusion of DT brings warfighters one step closer to being able to engage moving ships as far as 60 nautical miles away with an air-launched weapon. Developmental testing finished when the JSOW C-1 struck a small, fast-moving ship target during the weapon’s second flight test.

The JSOW C-1 is a network-enabled weapon that will be capable of receiving third party target updates in-flight and strike a precise point

on a moving ship using its autonomous terminal seeker. The testing keeps the program on track for reaching initial operational capability in 2013.

JSOW is a family of low-cost, air-to-ground weapons that employs an integrated GPS- inertial navigation system and terminal imaging infrared seeker. JSOW C-1 adds moving maritime target capability and the two-way Strike Common Weapon Datalink to the combat-proven weapon. ■

USN Completes Laser-guided Maverick Testing

The U.S. Navy completed developmental and operational testing (DT/OT) of the newest variant of the Raytheon laser-guided Maverick missile, bringing Warfighters one step closer to conducting airborne precision engagements of rapidly moving targets in urban environments.

During four DT/OT tests, Navy and Marine aviators fired four AGM-65E2 laser-guided Maverick



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missiles at moving and stationary targets from F/A-18C/D Hornets, F/A-18E/F Super Hornets and AV-8B Harriers. During one particularly challenging test, an AGM-65E2 was fired from a Harrier and accurately guided to a rapidly moving target via the laser designator of an AH-1Z Viper helicopter.

The laser-guided Maverick missile is a direct-attack, air-to-ground precision munition for the USAF, USN and USMC. The AGM-65E2/L has an enhanced laser seeker and new software that reduces the risk of collateral damage. ■

RAM Strikes Twice During Back-to-Back Tests

Raytheon's Rolling Airframe Missile Block 2 successfully completed two guided test vehicle flights within one week, demonstrating the system's upgraded kinematic performance, guidance system and airframe capabilities.

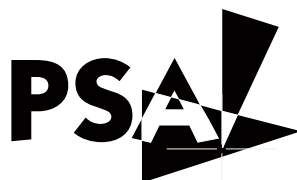
Raytheon is building 35 RAM Block 2 missiles during the design and development test period and

expects low-rate production to begin in 2012.

The RAM Block 2 upgrade includes a four-axis independent control actuator system and an increase in rocket motor capability. These and other upgrades increase the missile's effective range and deliver a significant improvement in maneuverability. The improved missile also incorporates an upgraded passive radio frequency seeker, a digital autopilot and engineering changes in selected infrared seeker components.

RAM is a supersonic, lightweight, quick reaction, fire-and-forget missile providing defense against anti-ship cruise missiles, helicopter and airborne threats, and hostile surface craft.

The missile's autonomous dual-mode, passive radio frequency and infrared guidance design provides a high-firepower capability for engaging multiple threats simultaneously. ■



CALENDAR OF EVENTS

Precision Strike Annual Review

Date: March 20-21, 2012

Location: Emerald Coast Conference Center, Ft Walton Beach, FL

Precision Strike Summer Forum & Golf Event

Date: June 11 (Golf) / June 12-13 (Meeting) 2012

Location: Patuxent River NAS, Patuxent River, MD

Precision Strike PEO Forum

Date: September 2012 (Exact date TBD)

Location: LMCO Conference Facility, Huntsville, AL

Precision Strike Technology Symposium

Date: Oct. 30 — Nov. 1, 2012

Theme: Precision Strike's Role in Sustaining U.S. Global Leadership

Location: JHU/APL – Kossiakoff Center, Laurel, MD

SECRET/US ONLY Classification Level

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PSAR-12 Continued from page 1

tainment of all air-delivered weapons. A program manager for numerous weapon system development and production programs—including the F-22, E-3, Air Force One, KC-10, E-4, Wind Corrected Munitions Dispenser, Sensor Fused Weapon, Joint Standoff Weapon, Low Altitude Navigation and Targeting Infrared System for Night, GBU-15 and the AGM-130—he also spent many years in Command Positions around the Globe. Major General Merchant holds Master of

Science degrees in management from Troy State University and in national resource management from the Industrial College of the Armed Forces.

As keynote speaker on the second day, Mrs. McFarland will focus on matters relating to DoD's acquisition system. Mrs. McFarland began her civil service career in 1986 as a general engineer at Headquarters Marine Corps where she was accredited as a Materials, Mechanical, Civil and Electronics Engineer. Prior to her current assignment, she was the Director for Acquisition for

the Missile Defense Agency (MDA) and held acquisition assignments at the Marine Corps Systems Command. Her accolades and accomplishments are far-reaching. She has received awards for her efforts in the areas of command and control as well as theater missile defense integration.

Please join our distinguished speakers as they showcase precision weapons and acquisition processes for today. Review page 15 of this Precision Strike Digest for a snapshot of major topics to be addressed during PSAR-12. ■

Program at a Glance

Precision Strike Annual Review (PSAR-12)

20-21 March 2012

Emerald Coast Conference Center Ft. Walton Beach

Co-Hosts

Air Armament Center, Eglin AFB
Air Force Research Laboratory, Eglin AFB

Theme

Weapons Reform—Adapting Acquisition Processes for Today

Showcasing

Military Department & International Precision Weapons Sessions

Other Key Briefings

- Air Armament Center Perspective
- Strategic Planning for Precision Engagement
- How Does a Weapons Program Survive in Today's Budget
- Changes in Weapon System Acquisition Over the Last Four Decades
- General Security Issues & the Defense Budget
- JROC/JCIDS New Processes
- DoD Acquisition Goals & Acquisition Workforce Improvements
- USSOCOM's Perspective on Rapid Acquisition
- Joint Strike Fighter Review
- Effect of Current Acquisition Policies on Weapon Systems Acquisition

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Precision Strike Annual Review (PSAR-12) Wrap-up

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