

### **Pentagon Renovation Program Completes Historic Renovations**

AMERICAN FORCES PRESS SERVICE (JUNE 22, 2011)

Army Sgt. 1st Class Tyrone C. Marshall Jr.

WASHINGTON—The Pentagon Renovation Program, which began in 1991, came full circle today as its leaders recognized contributors who spearheaded the program's efforts to complete the 17-year reconstruction project.

After two decades of planning and designing construction for the national historic landmark, 17 organizations and dozens of individuals were recognized for their commitment to thoughtfully modernizing the national military headquarters.

William Brazis, director of the Washington Headquarters Services, set the stage for the renovations, describing easy access and decaying conditions as culprits.

"Anybody, at that time, could walk right into the concourse and shop. Each day, scores of trucks backed directly, unimpeded, into the south side of the building at the loading docks between Corridors 2 and 3," he said.

"Hundreds of buses ran directly under the building at the concourse ... electrical outlets and breakers failed frequently. Localized outages were a daily event. The building was certainly not well postured for the coming of the computer age."

He also cited poor ventilation, regular plumbing failures, insects, and asbestos as contributors to the Pentagon's deterioration over 50-plus years of continuous use.

Brazis described a nearly catastrophic event that could have potentially crippled the headquarters.

"On August 7, 1990, as the Pentagon prepared for the start of Operation Desert Shield, a small fire broke out in the area of the Joint Chiefs of Staff," he said.

"In responding, a firefighter pressured a deteriorated water pipe. Hundreds of thousands of gallons of water poured into this building, flooding approximately 300,000 square feet of basement space, nearly causing the Air Force and Army operations centers to shut down," he continued.

"The rising water in the high voltage area really led us to fear of electrocution. And it would mean there would be no power to half the building right as U.S. military forces were moving into Saudi Arabia.

"The largest military deployment since the Vietnam War, and the United States' military command center would be half operational," said Brazis.

"Well, we've come a long way in 20 years, after 6.5 million square feet of renovation, arguably the largest and most complex probing of its kind ever. Today, I think it's safe to say that we work in a complex that can again support the department's mission in the next century."

Michael Rhodes, the director of Administration Management, described how immense the project has been.

"This is truly a very special day. I had the privilege of updating Secretary Gates about a month ago on the renovation, trying to capture what has occurred, what has transpired," he said.

"Quite frankly, it's impossible to do. You just can't get your arms around the things that have been done in this amazing period of time."

Rhodes discussed some of the renovations and upgrades, many of which were intended to improve the health and welfare of the Pentagon's workforce.

"It has an environment that's better, it has a better work life, it's safer, more flexible, more capable, and it's because of you," he said.

"From the safety side, the sprinkler systems, blast-resistant windows, the photo luminescent signage, and half corridors for quicker egress. On the capability side, the [information technology] infrastructure has been built in."

Among the individuals recognized were Dr. Alfred Goldberg, the Pentagon's chief historian from 1974 through 2007; Raymond Du Bois, who made important changes to security and the final configuration of the Pentagon; and Jim Laychak, president of the Pentagon Memorial Fund.

Rhodes also thanked all the program's government contract partners and tenant organizations.

The Pentagon Renovation Program also rebuilt the Pentagon after the terrorist attacks of September 11, and completed the Pentagon Memorial to honor the 184 people who lost their lives during the attack.

Before recognizing the individuals and organizations with key roles in the renovation, Rhodes closed with praise for all those involved.

"The success of this renovation is an example of what can be accomplished when you have individuals, when you have professionals, who are committed to a common cause and common focus, who are committed to excellence," said Rhodes.

"It was all done in the context of keeping this nation's military headquarters operational 24 hours a day, seven days a week for all the occupants and all the leadership of this department."

*Vaughn is with U.S. Army Garrison Redstone.*

### **FY10 DoD Value Engineering (VE) Achievement Awards Ceremony**

*ARMY NEWS SERVICE (JUNE 23, 2011)*

The Honorable Zachery Lemnios officiated at this year's DoD award ceremony where components and agencies were recognized for their significant accomplishments in saving money and reducing costs across the Department of the Defense. Assisting Lemnios in presenting U.S. Army awards were Terry Gerton, Army Materiel Command, and Lee Thompson, office of the assistant secretary of the Army (acquisition, logistics and technology).

Receiving the Outstanding Program or Project Award was the Dual Stabilator Controller Project with cost savings/avoidance of \$28.119 million. Accepting the award was Dan Cordasco, Communications-Electronics Research, Development, and Engineering Center, and Steve Danziger, Communications-Electronics Command.

Receiving the Award for Outstanding Individual was Tessa Hufstedler, Tank-Automotive Command (TACOM)/Program Lead for the Program Executive Office (PEO) Combat Support and Combat Service Support. Hufstedler successfully led the organization in realizing \$1.465 billion in cost savings/avoidances.

Receiving the Award for Outstanding Team was the TACOM/Project Manager Tactical Vehicles, realizing \$1.443 billion in Value Engineering (VE) cost savings/cost avoidances. Accepting the award were Army Col. David Bassett, Anthony Shaw, Joe Keusch, Michael Kennedy, Steven Rothfuss, Andrew Wilkins, Michael Nikodinovski, and Daniel Ostrowski.

Receiving the Award for Outstanding Organization was the U.S. Army TACOM. Utilizing the expertise of TACOM, PEO Soldier, PEO Ground Combat Systems, and PEO Combat Support/Combat Service Support realized an unprec-

edented total three-year VE cost savings/avoidances of \$1.675 billion implementing 39 projects.

Receiving a Special Award was the PEO-Ammunition/Joint Munitions and Lethality Command for realizing 20.104 million in savings/cost avoidances. Receiving a Special Award for realizing 10.5 million in savings/cost avoidances were Army Col. Anthony Potts, project manager, and Jack Van Kirk, aviation systems project management office. Their collective efforts of designating VE as a program of PEO emphasis led to these results.

### **Missile Manufacturing Opens Doors on Arsenal**

*ARMY NEWS SERVICE (JUNE 29, 2011)*

*Kari Hawkins*

REDSTONE ARSENAL, Ala.—Manufacturing milestone. Economic achievement. Technological advancement. Community partnership. Aerospace center of excellence.

Such were the words used by federal and state leaders to describe the 70,000-square-foot Raytheon Redstone Missile Integration Facility that is now officially under construction on 200 acres in the southeastern part of Redstone Arsenal near Gate 3.

During a June 27 groundbreaking ceremony that included Gov. Robert Bentley, Sen. Richard Shelby, and Sen. Jeff Sessions among its speakers, Raytheon celebrated an event that has been months in the making and that needed Department of the Army approval to make happen.

Describing it as "almost like a good old-fashioned barn raising," Dr. Taylor Lawrence, president of Raytheon Missile Systems, told those in attendance that it took the dedication and commitment of local, state, and federal leaders; Garrison employees; and the local Raytheon workforce to bring the "most advanced automated missile manufacturing facility in the world" to the arsenal.

"We are delighted to bring hundreds of jobs to the region that further solidify our presence ... Alabama put its best foot forward in the competition to bring this facility here. Raytheon selected Huntsville on its own merits," said Lawrence, an Alabama native.

The history of missile research and development at Redstone Arsenal and the synergy of the arsenal's missile defense community as well as the highly educated and available workforce, the quality of life of the area, and the pro-business environment all factored into Raytheon's decision to build its largest facility outside of its headquarters in Tucson, Ariz., in Huntsville.

"This is one of the newest facilities in Raytheon and one of the largest investments in the company's history," William Swanson, Raytheon's chairman and chief executive officer, said.

When completed, the facility will provide final assembly and testing for Raytheon's Standard Missile-3 and Standard Missile-6 missiles. SM-3 is being developed as part of the Missile Defense Agency's sea-based Aegis Ballistic Missile Defense. The missile was deployed on U.S. Navy cruisers and destroyers, and Japanese destroyers to defend against short- to intermediate-range ballistic missile threats in the ascent and mid-course phases of flight. SM-6 is an extended range anti-air warfare missile fired from Navy ships against fixed- and rotary-wing aircraft, unmanned aerial vehicles, and cruise missiles.

Raytheon's \$75 million facility will be built in two phases. The first phase will be completed in about a year and the second by January 2014. Much of the facility will be automated and built with state-of-the-art technology that makes it a "factory of the future," Lawrence said.

About 300 employees will work at the facility once it is complete, bringing Raytheon's total local workforce to nearly 1,000.

"You chose a great area," Bentley said. "We've done a lot in this state to diversify and grow the car industry. Now let's move forward to produce more and more in the aerospace industry. I believe aerospace is the next phase of diversification of manufacturing in this state."

The governor pointed out that Alabama produces per capita more soldiers than any other state in the nation. That deep-down patriotism also grows the military presence at Redstone Arsenal.

"I want to thank the people of this area who have worked so hard," Bentley said. "We have the hardest workers in the country. We must never forget it's the people who make things work. It's your engineers, your ordinary workers, who will build this plant, and they are doing it to protect America."

The Raytheon facility is significant in many ways, Shelby said, but especially because it brings "research and manufacturing together here."

Shelby spoke of the support the arsenal as well as Raytheon can expect from the U.S. congressional delegation.

"You're going to do well and we're going to make sure you do well," he said. "We're going to work hard in Washington [D.C.]. We're going to make sure it's funded. This deals with national security."

The progress of both phases of construction is tied to SM-3 and SM-6 production contracts. Funding for those contracts is essential to the continued mission of the U.S. military in defending freedom around the world, said Sen. Jeff Sessions.

"National defense depends on U.S. domination of air and space," he said. "We've got to be able to defend our nation, and protect our satellites and communication systems, and we can't leave our soldiers vulnerable to rogue nations."

Sessions said Redstone Arsenal was the perfect choice for Raytheon's missile plant. "This community represents the best technology community for missile defense anywhere in the country," he said.

Lt. Gen. Patrick O'Reilly, commander of the Missile Defense Agency, said the Raytheon facility is a "tremendous asset to growing missile defense for this country."

The missiles being produced by Raytheon will not only protect the nation's current freedoms but will also be able to "perform critical missions 20 to 30 years from now."

For Maj. Gen. Jim Rogers, senior commander of Redstone and the commanding general for the Aviation and Missile Command, the groundbreaking is "bigger than just the Army here."

Describing it as a joint operation among Department of Defense programs, Rogers said "this is a huge deal for us. It's a great opportunity for us to leverage what we have here at this installation to serve this great nation."

*Hawkins is with U.S. Army Garrison Redstone.*

### **Army Releases 2012 Modernization Plan for Research, Development and Acquisition**

*Office of the U.S. Army Deputy Chief of Staff (June 29, 2011)*

WASHINGTON—The Army released its Modernization Plan today in support of the Fiscal Year 2012 (FY12) President's Budget Request for Army Research, Development and Acquisition (RDA) equipment funds.

The Modernization Plan is a blueprint for the Army's priority equipment necessary for our soldiers to succeed in current operations and to prepare for missions in a complex and unpredictable future.

It incorporates lessons learned from almost a decade of conflict and provides details on what is needed to build a versatile mix of tailorable and networked units and what is required to develop, field, and sustain the needed equipment in an affordable, incremental manner.

The Army Modernization Plan 2012 is available at [www.g8.army.mil](http://www.g8.army.mil). For more information, contact Lt. Col. Dave Gercken, Army Public Affairs, 703-697-7592.

### **Picatinny Recognized for Saving DoD \$19.9 Million**

PICATINNY ARSENAL, N.J.—The Program Executive Office for Ammunition recently received a 2010 Department of Defense Value Engineering (VE) award for cost-saving efforts in the past year.

Value Engineering is a functional analysis process to identify actions that reduce cost, increase quality, and improve mission capabilities across the entire DoD enterprise, according to a DoD news release announcing the award.

PEO Ammunition won a VE award in the “Special” category. Special awards recognize outstanding contribution to the

VE program, which demonstrate innovative approaches and applications and/or expand the benefits of VE. The Program Executive Office for Ammunition recently received a 2010 Department of Defense Value Engineering (VE) award for cost-saving efforts in the past year.

Jim Shields, deputy PEO Ammunition, accepted the VE award on behalf of PEO Ammunition during an awards ceremony June 22 in the Pentagon Auditorium.

“I was very proud to accept the value engineering award on behalf of the PEO Ammunition and Team Picatinny for all their terrific efforts in exceeding our value engineering goal for fiscal year 2010,” Shields said.

“In this current environment, we have to do everything we can to improve efficiency and save money, and value engineering is one of our most important processes to achieve that end,” he said. “I’m pleased at the value engineering results we routinely achieve here at Picatinny while we continue to provide our servicemembers with safe, reliable, world-class ammunition and weapons systems.”



The Program Executive Office for Ammunition recently received a 2010 Department of Defense Value Engineering (VE) award for cost-saving efforts in the past year. The award was presented June 22 in the Pentagon auditorium. From left: Assistant Secretary of Defense, Research and Engineering Zachary Lemnios; Deputy PEO Ammunition Jim Shields; Special Assistant to the Commanding General, U.S. Army Materiel Command Teresa Gerton; and Deputy Assistant Secretary of the Army, Strategic Communications and Business Transformation Lee Thompson.

U.S. Army photo

In fiscal year 2010, PEO Ammunition's assigned VE goal was \$10 million. However, the organization exceeded its goal by nearly 200 percent with a total savings of \$19.9 million.

The PEO achieved this success through efforts such as eliminating duplicate testing for a new 30mm medium caliber packaging.

The existing 30mm packaging configuration was redesigned because it was expensive and the Army wanted to improve the overall durability of the packaging, said Jason Runell, supervisory engineer for the Project Manager Maneuver Ammunitions Systems (PM-MAS) Packaging Branch.

"We developed an improved internal support system that was less expensive and capable of protecting the ammo throughout our rigorous logistics life cycle," said Runell. "As a result of the change to the packaging configuration, we needed to re-Hazard Classify the system."

The Final Hazard Classification (FHC) ensures the ammunition is properly packed and marked for safe transportation and storage.

The FHC can be determined through testing, but that is costly.

Instead PM MAS employees worked with the ARDEC System Safety Office and other military safety organizations, who determined that FHC for the new 30mm ammunition packaging could remain the same as the former packaging because the changes to the new packaging were minor and would not change the FHC.

Eliminating this unnecessary testing to approve the FHC saved DoD more than half a million dollars.

Picatinny organizations have won five DoD Value Engineering Awards in the past eight years.

- Fiscal Year 2003—Organization Award: PEO Ammunition
- Fiscal Year 2003—Team Award: M821A1 and M889A1 Mortar Ammunition Team
- Fiscal Year 2005—Special Award: ARDEC
- Fiscal Year 2009—Special Award: PEO Ammunition
- Fiscal Year 2010—Special Award: PEO Ammunition

Military-wide in fiscal year 2010, DoD executed in-house value engineering proposals and accepted contractor-initiated value engineering change proposals with a combined actual and projected savings/cost avoidance in excess of \$2.4 billion.

### **Corps Environmental Engineer Receives Steel de Fleury Medal**

*ARMY NEWS SERVICE (JULY 5, 2011)*

*Jenn Domashevich*

LOUISVILLE, Ky.—Greatness can be achieved at various levels of one's professional career, and U.S. Army Corps of Engineers employee Quyet C. La has demonstrated that it is never too soon to start. After only four and a half years of employment with the Louisville District, La has received a prestigious military engineer award, the Steel de Fleury Medal, on June 28 for his significant contributions to the district's environmental program.

La's Corps career started as an engineering co-op student in January 2007, which in turn led to being offered an internship position. Upon completion of the internship in May 2011, he became a full-time employee as an environmental engineer for the district.

"Mr. La hit the ground running with a can-do, will-do attitude and really delivered," said Chris Karem, chief of the Louisville District's environmental engineering division. "Through his technical and organizational excellence, he has already earned a leadership role in the FUDS [Formerly Used Defense Site] program for the district. This, in itself, is a remarkable accomplishment considering his experience level."

La serves as a technical manager in the district's environmental engineering division. He conducts fieldwork, which involves surface water, groundwater, and sediment sampling; develops groundwater reports; assists project management in developing Project Closeout Reports (PCOs); and also leads the Inventory Project Report (INPR) program.

"He has unarguably become the district expert in preparing INPRs," said Karem. "This first step is undoubtedly the most important step for any FUDS project. It establishes the course of the project, which can be long and unmanageable if not navigated strategically from inception."

In addition to his key role in INPR preparation, La has also been assisting project management in completing multiple PCOs by the end of Fiscal Year 2011.

"Effectively completing multiple PCO reports requires thorough knowledge of the FUDS program, the CERCLA [Comprehensive Environmental Response, Compensation and Liability Act] process, and many other complex technical issues," said Karem. "Within the first month, Mr. La helped in the completion of approximately one-third of the PCOs and is doing an outstanding job."

His professionalism and work ethic have made him an extremely valuable member of the environmental branch and engineering division. Not only has his dedication brought numerous improvements to the FUDS program, but it has also helped the program make great strides towards its completion goals.

"I'm proud to say I work for the Corps," said La. "I would like to believe that my work assists in the programs managed by the Corps. By doing our part well, the people who would need the product that we develop will be able to address their respective responsibilities. Ultimately, the Corps is here to enhance the lives of the public. To know that I am a part of the effort of improving society makes it more peaceful to sleep at night."

*Domashevich is with the U.S. Army Corps of Engineers.*

### **SDDC Recognized for Knowledge-Based Capabilities, Solutions**

*SURFACE DEPLOYMENT AND DISTRIBUTION COMMAND (JULY 15, 2011)*

*Command Affairs Office*

SCOTT AIR FORCE BASE, Ill—The Military Surface Deployment and Distribution Command's information technology directorate was named a winner of the Army Knowledge Management Award for outstanding technology-based capabilities supporting the command's knowledge management program.

The AKMA will be officially presented to the command by Office of the Army Chief Information Officer during the Armed Forces Communications and Electronics Association Luncheon in Tampa, Fla., on Aug. 23.

SDDC launched its Knowledge Management program in 2009. Throughout the last two years, the command's focus has been heavily driven in the technology arena, implementing a number of tools supporting the program.

The AKMA program recognizes outstanding organizational efforts that have implemented some or all of the 12 AKM principles in support of mission goals and objectives.

SDDC is the Army Service Component Command of U.S. Transportation Command and is responsible for strategic



U.S. Army Corps of Engineers Louisville District Commander Col. Keith Landry presented environmental engineer Quyet C. La with the Steel de Fleury Medal on June 28, 2011, for his significant contributions to the district's environmental program.

*U.S. Army photo*

surface transportation and distribution for the Department of Defense.

### **Chris Zahner Receives U.S. Army Transportation Corps Regimental Civilian of the Year Honors**

*U.S. ARMY AFRICA PUBLIC AFFAIRS (JULY 18, 2011)*

*Mindy Anderson*

VICENZA, Italy—Chris Zahner, U.S. Army Africa's (USARAF) logistics office chief of surface transportation, was recently named U.S. Army's Transportation Corps Regimental Civilian of the Year for 2011.

Todd Johnston, USARAF's chief of mobility, said he nominated Zahner because he doesn't just know about "moving" things, he knows how it should route, who to talk to, who does it best in which port, and which office/minister/official to coordinate USARAF cargo movement through borders smoothly.

"The recognition of one of our own reflects well on the quality of personnel and work being done in all of USARAF and AFRICOM," Johnston said. "As a nascent Army Service Component Command and Combatant Command, it's imperative that we be able to tell our story and validate the significant investment the DoD is putting forth as we seek

to engage with our African partners—plus it highlights the progress we've made over the last 24 months and the way ahead," he said.

Bottom line, Zahner is fully dedicated to maturing DoD transport operations in Africa as well as the knowledge and experience to do so, according to US-ARAF Chief of Logistics Col. Michael Balsler.

"This is recognition from our DA-level transportation community on the complexity of the African mobility environment, and an affirmation of Chris Zahner's tangible and immediate contributions," Balsler said.

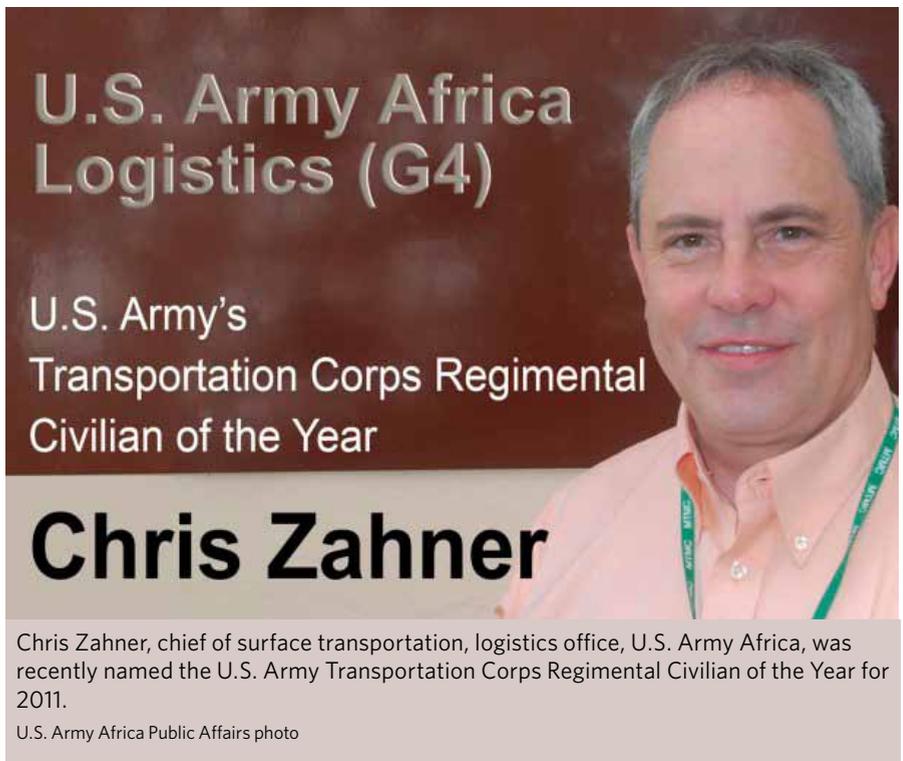
In numerous deployments to Africa, discerning commercial capability and customs issues, Chris continually punches above his weight class.

"As the single authoritative source for movement execution in U.S. Army Africa Command, Chris lends his expertise repetitively to U.S. Africa Command, other Services, and the Combined Joint Task Force-Horn of Africa," Balsler said. "He is a role model employee for the command whose supervisory execution, high level of motivation, responsiveness to employees, and vision are without parallel," he said.

Africa is a very large continent, and although USARAF's logistics mobility branch is a small organization, according to Zahner, it's a great team, with one purpose and one heart.

"My co-workers in the mobility branch have supported all efforts continuously in the development of the surface transportation section into being the lead component organization for coordinating and executing all intra-theater surface movements and distribution for all U.S. military services for the entire continent of Africa," Zahner said. "If there is a truck, railcar, or barge hauling U.S. military equipment or supplies anywhere in Africa, then our mobility surface section is responsible for that movement, and without the support of my co-workers, we would have never gotten down that long road to Kitgum, Uganda or Kinshasa, Democratic Republic of Congo, or Dire Dawa, Ethiopia."

Zahner said he is honored to be selected as the Transportation Corps Regimental Civilian of the Year for 2011.



"Being selected as the top civilian transporter among all these outstanding logisticians is a great honor," Zahner said. "I know most of my peers and they are all superb employees and real professionals—I consider this award to be the greatest honor of my civil service career."

The Transportation Corps Regimental Civilian of the Year is awarded each year to the top-performing Department of the Army Civilian (DAC) transporter. There is one award given in this category worldwide by the U.S. Army Transportation Corps each year. Presentation of the award is given at Fort Lee, Va., the home of U.S. Army Logistics.

*Anderson writes for U.S. Army Africa Public Affairs.*

### **Army Acquisition Review**

*ARMY NEWS SERVICE (JULY 21, 2011)*

The Army Acquisition Review final report, the implementation guide, and the Secretary of the Army's memorandum concerning implementation were recently posted online.

- 2010 Army Acquisition Review Final Report (PDF): <http://usarmy.vo.llnwd.net/e2/c/downloads/213465.pdf>
- 2010 Army Acquisition Review Implementation (PDF): <http://usarmy.vo.llnwd.net/e2/c/downloads/213466.pdf>

- Secretary of the Army memorandum on Army Acquisition Review implementation (PDF): <http://usarmy.vo.llnwd.net/e2/c/downloads/213467.pdf>

### **2011 Department of Defense Maintenance Awards Winners Announced**

*DEPARTMENT OF DEFENSE NEWS RELEASE (AUG. 9, 2011)*

The Department of Defense (DoD) announced today the 2011 winners of the Secretary of Defense Maintenance Awards for depot and field-level units. These awards are presented annually to recognize outstanding achievements in weapon system and military equipment maintenance.

The 2011 Robert T. Mason Depot Maintenance Excellence Award recipient is the Air Force's KC-135 Programmed Depot Maintenance (PDM) Team at Oklahoma City Air Logistics Center. During 2010, the KC-135 PDM team made significant achievements in every segment of the production line, including numerous kitting programs that improved material availability and technician efficiency and continuous process improvements that affected several maintenance procedures. Their accomplishment of superior maintenance produced a record 55 aircraft and performed extraordinary maintenance feats to keep the over 50-year-old jets flying nearly 50,000 annual sorties in support of Operations Enduring Freedom and Iraqi Freedom, and Horn of Africa missions.

The depot-level award is named in recognition of Robert T. Mason, a former assistant deputy under secretary of defense for maintenance policy, programs, and resources. Mason served as the champion of organic depot maintenance for three decades and was instrumental in transforming DoD organic depot-level operations.

A total of six field-level awards were presented in three categories: large, medium, and small. The recipients of this year's Secretary of Defense Field-level Maintenance Awards in the large category are the Marine Corps 1st Maintenance Battalion, Camp Pendleton, Calif., and the Air Force 31st Maintenance Group, Aviano Air Base, Italy. Winners in the medium category are the Navy Fleet Readiness Center Southwest, Naval Base Coronado, San Diego, Calif., and the Army D Company, 6-10 Aviation Regiment, 101st Combat Aviation Brigade, Fort Campbell, Ky. Small category winners are the Marine Corps Tactical Electronic Warfare Squadron 1, Marine Corps Air Station, Cherry Point, N.C., and the Navy Strike Fighter Squadron 143, Naval Air Station Oceana, Va.

The awards will be presented to the winners at the Secretary of Defense Maintenance Awards banquet on Nov. 16, 2011, during the 2011 DoD Maintenance Symposium and Exhibi-

tion at the Fort Worth Convention Center in Fort Worth, Texas. Additional information regarding the 2011 DoD Maintenance Symposium and Exhibition can be found at [www.sae.org/dod](http://www.sae.org/dod).

### **Pentagon Streamlines Approval for Energy Projects**

*AMERICAN FORCES PRESS SERVICE (JULY 26, 2011)*

*Karen Parrish*

WASHINGTON—A Defense Department clearinghouse for renewable energy projects has approved 229 of 249 projects proposed in 35 states and Puerto Rico, Deputy Defense Secretary William J. Lynn III said last week.

"These projects represent 10 gigawatts of renewable energy generation capacity in wind energy alone," Lynn said at an Army and Air Force energy forum.

"Our action removes a major stumbling block for developers who are trying to attract financing, showing the department's commitment to supporting the president's vision for energy ... without compromising our national security," the deputy secretary said.

Energy Secretary Steven Chu noted during a speech at the same forum that the Defense Department has played a crucial role in developing technologies, including the Global Positioning System, the Internet, and semiconductor electronics.

"As an early investor and adopter, [DoD] has actually advanced those technologies that have become the core wealth generators ... of today," he said.

Chu likened the development of renewable energy technology to a second industrial revolution. "We still need the energy and the power to propel our military, our economy, our world—but we need to do it in a cleaner way," he said.

And, the Defense Department will continue to play a seminal role in stimulating the clean energy revolution, Chu said.

David Belote, DoD's siting clearinghouse executive director, said the year-old organization exists to provide speedy assessment of renewable energy projects' effects on military capabilities.

Before the clearinghouse was formed, the Air Force and other agencies spent 15 months negotiating over a solar project that started operating in 2007 near Nellis Air Force Base, Nev., said Belote, who was the air base wing commander there at the time.

"Where the company first proposed building, it was going to have some significant electromagnetic interference issues on test and evaluation operations at the Nevada Test and Training Range," he said.

Belote said that solar, and especially wind power, installations can cause electromagnetic interference and other issues for military electronic sensing devices. Wind turbines can measure 500 feet from base to blade tip, and "large spinning things" cause particular issues for radar systems, he said.

During both the Nellis project debate and later negotiations over the Shepherds Flat Wind Farm in northern Oregon, intense congressional pressure led the Air Force to consult MIT Lincoln Laboratory, whose experts said, "This can be fixed," Belote said.

The potential halt of the long-planned projects was due in part to the regulations the wind industry uses, Belote said. Federal Aviation Administration and DoD approval of large-scale energy projects at the time wasn't required until 30 days before construction. That period now is 45 days.

The wind farm was a \$2 billion project that had been in the works for five or six years, Belote said. "The Senate was plenty irritated that the military, late in the game, was asking to block it," he added.

Ultimately, DoD agreed to field-test MIT's solutions and withdrew its objections to both projects, Belote said.

A third project involved the area around Travis Air Force Base, an area of "huge wind potential" in Solano County, Calif., and may be the model for how to go forward, he said. Two major wind energy corporations, the Sacramento Municipal Utilities District and officials at Travis Air Force Base and the Air Force Air Mobility Command, joined efforts to ensure radar coverage of flight operations while allowing wind farms to be built near the airfield, the clearinghouse executive director said.

"They did something called a mosaic, or triangulation, and they took two other radars within 60 or 80 miles, and put them together so they could see behind the wind farms as they were constructed and not lose track of aircraft around the pattern," Belote said.

"The closest turbine to the Travis tower is 4.6 miles away," he added.

Last summer, with a growing list of proposed renewable energy projects near military installations, DoD officials hired the newly retired Belote to lead the new siting clearinghouse and speed review of renewable energy projects.

The three main areas his staff studies, he said, are the impacts of proposed projects on military readiness and training, test and evaluation capabilities, and homeland defense: long-range radar surveillance, border surveillance, coastal surveillance, and critical vulnerability surveillance.

Belote said his staff took the approach of working collaboratively with other federal agencies, the military services, solar and wind industry associations, and nongovernmental environmental organizations.

By early December, industry representatives had agreed to approach Congress jointly with clearinghouse staff members to set review guidelines, he said, but that plan was derailed when President Barack Obama signed the National Defense Authorization Act in January.

"It was much more stringent than we would have hoped, and set a very high bar for DoD to assess projects and to be able to object to projects," Belote said. The act, he added, set a 180-day timeline for DoD to complete preliminary reviews on all the energy projects that had been delayed or deferred because of the department's objections.

"We had 270 days, an additional 90 days, to figure out ... a nationwide approach to wind, solar [and] geothermal in terms of high, medium, and low military mission impact areas," he said.

Belote said the act also limited DoD's allowable objections to renewable energy projects to "unacceptable risk to national security," while only the secretary of defense and three other top department officials can file such objections.

The clearinghouse staff then set to work to determine the size of the backlog and categorize projects. Projects with no significant risk of military mission failure would be rated green; projects with some risk but with logical mitigating strategies would be rated yellow; and "red" projects would be those with significant risk of mission failure and no apparent mitigating strategies.

"We ended up with 249 projects in the backlog," he said.

Working with the military services, the Federal Aviation Administration and the Bureau of Land Management to review

the backlog, clearinghouse staffers had by late May completed initial assessment of all projects, Belote said.

If all four of the military services, the North American Aerospace Defense Command, and defense readiness, test, and installations experts rated a project as green, "we trusted them," he said.

The clearinghouse reviewed all yellow and red projects and returned them to the Services with suggestions for mitigating risk, with a 30-day deadline for final review.

"We ended up coming back with 229 green and 20 yellow or red," Belote said. "Knowing what we have done to get to where we are, seven or eight [of the 20] will probably, after a little more work and study ... go straight to green."

Another seven or eight "amber" projects will likely be rated green if the developer agrees to some mitigating steps, he said.

"Move a handful of turbines, lower the height of some, maybe just remove a handful from a project, so that we preserve some military capability," Belote explained.

Of the 229 projects already approved, 13 involve more than 100 wind turbines, five exceed 200, and two in Michigan and Utah may include more than 300, according to clearinghouse records.

Four or five of the 20 projects not yet approved "will probably stay bright red, because they are close to some critical, unique capabilities," he said.

The clearinghouse board of directors, made up of senior defense officials, met on day 180 of the review and approved the group's results, he said.

Belote said his staff is now reviewing new project requests and compiling guidance on how to standardize ratings of future projects. They also are accepting requests from industry for early consultation, so developers can better forecast possible issues with planned projects.

"[And] we are working with [the Energy Department] ... to do an interagency field test and evaluation of all the potential mitigation solutions, because we've discovered 80 to 90 percent of the issues surround wind turbines," he said. "But the physicists and radar engineers understand what's going on, so with some money and some political will, we can solve this."

Belote said he believes technological advances and industry efforts will resolve interference issues within two to five years.

"There are a few places in the country that we need to keep electromagnetically pristine," he said. "[But] we have taken big steps at being able to determine, in a publicly defensible, peer-reviewable way, what we need for military mission capability."

Energy security and energy independence "are equally facets to national security as are military readiness, test and operations," Belote said.

### **Award Recognizes Contributions to Engineering Excellence, Education**

*ARMY NEWS SERVICE (JULY 26, 2011)*

*Justin Eimers*

TOBYHANNA ARMY DEPOT, Pa. An engineer here is just the second person from the Army to earn the 2011 John Slattery Professional Achievement Award. Dr. David Carey, chief of Tobyhanna Army Depot's engineering design, development and manufacturing division, earned the award for his contributions to automated test equipment (ATE) technology and devotion to engineering education. The award was introduced in 1987.

The award honors the memory of John Slattery, an engineer and former chairman of the modular automated test equipment users group control and support software committee. Presented annually, it recognizes an individual who best characterizes Slattery's contributions. Carey's technical achievements alone establish a long list of qualifications.

Carey supervises five branches that contribute to Tobyhanna Army Depot's engineering-based missions. His work has helped bring various systems to the depot, including the Versatile Depot Automated Test System, used to test different Air Force weapons systems and aircraft components. Workload on manufacturing these systems has increased 325 percent since Carey began overseeing operations last September.

Carey's accomplishments extend far beyond the gates of the depot. He attributes much of his success to his work in academia.

"I think what clinched the award for me is not only what I do at Tobyhanna," he said, "but also what I do outside the depot " I'm an educator."

The criterion of the award emphasizes “enthusiasm and eagerness to offer and provide mentoring.” Carey created the Wilkes University Institute for Automated Test, a program that provides students the specific education and guidance necessary to become test engineers. Kevin Hurley, vice president of Advanced Development, Support Systems Associates Inc., nominated Carey for the award and recognizes this as a fundamental building block to sculpt the “engineers of tomorrow.”

“Providing a curriculum that specifically addresses the requirements and needs of engineering as they relate to our test community is a major contribution to the future of our industry,” Hurley said.

Carey understands the importance of what he provides to others. “I use teaching as a way to leave a mark on the world,” he said. “Not my mark, but a mark on every individual that will go forward into the field.

“I have the opportunity to not only teach the best but also hire the best,” Carey added. “The legacy I leave behind will live on in my students here and elsewhere.”

Carey completed a PhD in Electrical and Computer Engineering from Clarkson University earlier this year after five years of research. That same drive and motivation has helped move the depot forward in ATE support.

“His position on ATE modernization and the desire to establish the next paradigm from which the entire DoD can benefit is a clear indicator of his overall drive,” Hurley said. “Dr. Carey’s unwavering commitment to excellence is demonstrated through his constant progress in reaching the projected ATE modernization goal.”

*Eimers is an editorial assistant at Tobyhanna Army Depot, Pa.*

### **Army Announces Civilian Reductions**

*OFFICE OF THE CHIEF OF PUBLIC AFFAIRS (AUG. 4, 2011)*

WASHINGTON, D.C.—The Army announced today it will reduce the size of its civilian employee workforce by more than 8,700 people by Sept. 30, 2012. These cuts are based on Department of Defense resource decisions as reflected in the fiscal year 2012 President’s Budget and require a reduction of Army civilian employees to comply with decreased funding levels.

The Army has identified more than 30 different commands and agencies affected by these reductions, with nearly 80 percent of the cuts taking place within Installation Management Command; Army Materiel Command; Training and

Doctrine Command; and Headquarters, Department of the Army.

“We are in a very challenging fiscal environment and understand the impact these cuts will have on our civilians and their families” said Thomas R. Lamont, assistant secretary of the Army for manpower and reserve affairs. “Tough choices have to be made, but we’ll make them in a thoughtful and deliberate manner that best supports the Army’s mission.”

Affected commands and agencies will have 30 days to develop plans to accomplish their civilian workforce reductions, identify organizational and personnel actions to be taken, and develop a timeline for each of the actions and expected reductions.

Commanders will be responsible for shaping their workforce within their allocated budget and may use all available options to achieve reduction objectives while mitigating adverse impact on the workforce. Voluntary Early Retirement Authority, VERA, and Voluntary Separation Incentive Payment, or VSIP, may be used to reduce the number of personnel to meet mission objectives.