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CRANE ARMY AMMUNITION ACTIVITY

CRANE QUARTERLY

MAGAZINE



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**THE LOW COST REDUCED RANGE
PRACTICE ROCKET**

MANUFACTURING RENOVATION LOGISTICS MAINTENANCE DEMILITARIZATION



Only Our Best For The World's Best

Commander's Comments

Col. James P. Hooper

They Are Not Customers

Team Crane Army,

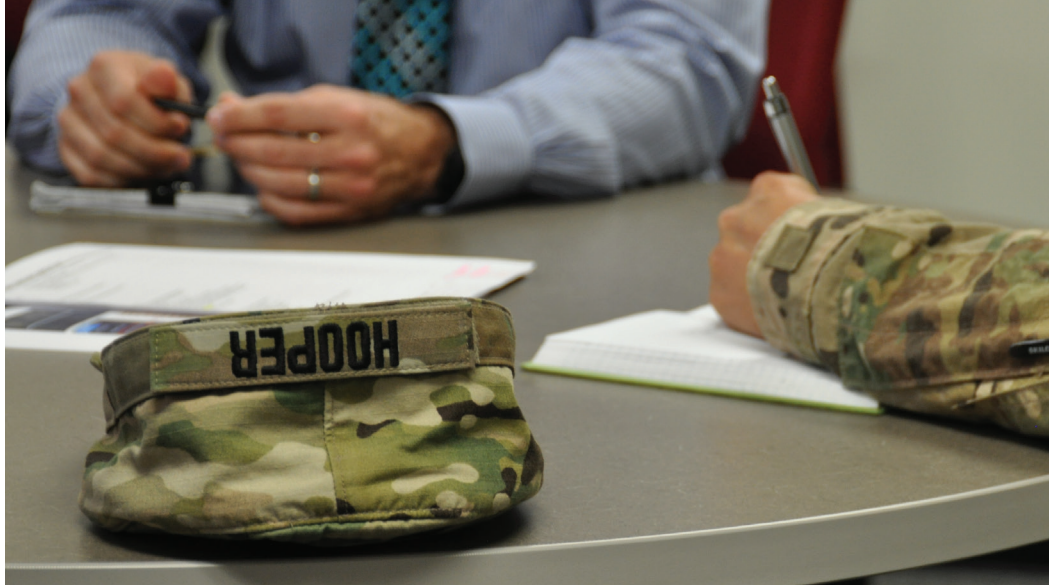
After a year in command, I have come to greatly appreciate the hard work and dedication of this CAAA team in ensuring that the Warfighter always has the ammunition needed, at the right place and time, and that it will function properly the first time every time. Whether it is to store, distribute, produce or demilitarize ammunition, we are performing at a level that sets the standard in the Organic Industrial Base.

During my recent town hall meetings I discussed Performance to Promise with many of you. This is one of the good news stories since I took command. P2P is the one key standard by which Crane Army is measured throughout the entire Department of Defense. It tells leaders whether or not Crane can meet its schedule on time and within quality standards. It tells them that we can meet our production or outload commitments. When we are not able to perform up to our promise, Crane Army must take a hard look at the root causes for failures. We have greatly improved in meeting our P2P obligations, which ultimately makes Crane Army a more competitive OIB partner, but also attracts workload. Bottom line, whether DOD or industry, workload goes to those who can meet their obligations on time and at cost with the right level of quality. But I want to stress that meeting our P2P obligations never comes at the cost of safety. If you ever feel that something is unsafe in the workplace, you have an obligation to say something and stop the unsafe activity.

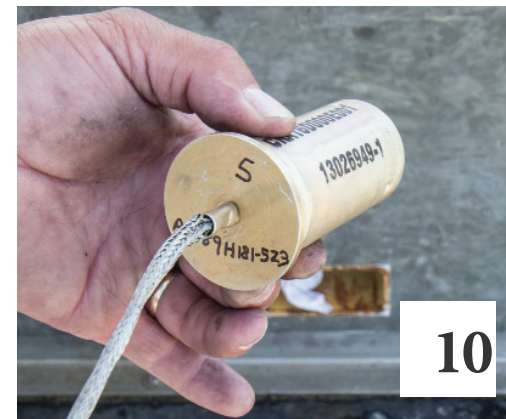
Continuous Improvement is not a one-time event that comes from an isolated office. It comes from all of our employees, at all levels, regardless of location. It comes from those who know the processes because they work them every day and can see where there are problems. I encourage all of you to take an active role in improving how we do business. Continuous Improvement makes us more efficient, reduces expenses, makes us safer, and ultimately reduces our rates—which gives us a competitive edge in an increasingly challenging industrial base environment. Speak up when you have a good idea for a project—or call the CPI office at (812) 854-8639—or call or email me directly.

This issue of the CQM highlights many of the behind-the-scenes roles that are vital to Crane Army completing its mission. The work our teammates do behind the scenes ensures we have IT support, get paid, smoothly integrate LMP Increment 2, stay safe and perform a variety of other functions. It is important for every Team Crane member to realize that we purposefully keep overhead costs as low as possible...that means our supporting staff is usually overtasked and undermanned. That is another way that many of our support staff helps us keep our rates low and revenue up. If we are truly to work as one Team Crane, I think it is important that we understand the role everyone has in order to meet our promise to always provide only our best for the world's best.

The last thing I'll leave you with is: They Are Not Customers—they are parents, children, siblings, friends, and fellow Americans...that need the munitions you produce, inspect, ship, and maintain to work right the first time, every time. What you do is important—and thanks.



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CRANE QUARTERLY MAGAZINE

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The editorial content of the Crane Quarterly is the responsibility of the Public Affairs Office at CAAA.

Mailbag

Q. Why do employees sometimes have to work overtime or adverse shifts?

A: CAAA leads JMC in a supply chain metric known as Performance to Promise, or P2P. CAAA Directors, PMs and P&Es do a lot that you may not see to work the schedule with JMC and our customers. This at times means overtime and adverse shift work to maximize limited facilities and equipment the best we can. P2P is watched not only by our customers but also by the Army and those that make the budget decisions. It's important we meet requirements to demonstrate to the decision makers that CAAA is here to stay.

CAAA welcomes feedback from readers. Feedback can be submitted via email and must include sender's name, phone number and valid email address. Send feedback emails to: usarmy.crane.jmc.mbx.caaa-cdr-site@mail.mil.

Postal address: CAAA Newsletter, ATTN: JMCN-PA, 300 Highway 361, Crane, Indiana 47522-5099.



1 CAAA Hosts Reserve Units
Crane’s Depot Operations, Resource Management, and Manufacturing and Engineering Directorates hosted a very successful annual training rotation June 4-18 for approximately 80 soldiers from the 295th Ordnance Company from Hastings, Nebraska. The 295th’s soldiers safely accomplished their training objectives while supporting ammunition logistics and manufacturing operations. Specifically, 295th soldiers cleared an inert storage holding area for future construction of a new container storage pad, increased production on the open-detonation range through integration with the CAAA demilitarization team, worked alongside Depot Operations field crews to increase productivity, were provided valuable hands-on surveillance training while working with the Surveillance Division, and provided maintenance and fire and emergency services support alongside Naval Support Activity, Crane. The 295th was the first of multiple USAR/ARNG/USMC units that will train at Crane this summer while providing additional direct labor workload in terms of ammunition logistics and construction projects.

2 Overheard

“*In a time of increasingly uncertain budgets, we must conduct self-analysis and challenge our assumptions in order to develop faster, cheaper and more effective technologies for our Soldiers.*”

Patrick J. O’Neill
AMC Chief Technology Officer

3 LEMC Excels as East Coast Power Projection Platform
Letterkenny Munitions Center (LEMC) recently demonstrated why it is Joint Munitions Command’s East Coast Power Projection Platform by successfully out-loading more than 200 containers of munitions supporting U.S. European Command’s (EUCOM) Theater Reset and U.S. Central Command (CENTCOM) in the Middle East. In May, LEMC personnel worked seven days a week building dunnage, pulling and inspecting munitions, packing containers, processing documents, and loading railcars to meet all mission requirements. Overall, LEMC’s dedicated team processed more than 2,800 tons of munitions needed by warfighters conducting operations.



By The Numbers 4

6 Amount, in millions of dollars, CAAA is reinvesting in equipment improvements in FY16

16.6 Amount, in millions of dollars, CAAA is reinvesting in facility improvements in FY16

94 Miles of active railroads servicing storage and depot facilities at CAAA

19,011 Total acreage at Iowa Army Ammunition Plant, a government-owned, contractor operated facility subordinate to CAAA and located near Middletown, Iowa

Recon



SECRETARY OF DEFENSE ASHTON CARTER VISITS CRANE
Secretary of Defense Ashton Carter made an historic visit to Naval Support Activity, Crane, June 22 to see the capabilities of the base’s tenant activities. The visit occurred at the invitation of Indiana Sen. Joe Donnelly to highlight the vital support Crane Army Ammunition Activity and Naval Surface Warfare Center, Crane Division, provide to the Department of Defense. “What Crane does for us is so wide and so deep,” Carter said. “They do things that range from our nuclear deterrent, which is the bedrock of our national security, to supporting today’s Warfighter who is protecting us.”



Enacted in 1939, the Hatch Act (5 U.S.C.A. 7324) curbs the political activities of employees in federal, state, and local governments. The law's goal is to enforce political neutrality among civil servants: the act prohibits them from holding public office, influencing elections, participating in or managing political campaigns, and exerting Undue Influence on government hiring. Penalties for violations range from warnings to dismissal.



Civilian and military personnel may generally express their personal views on public issues or political candidates via social media platforms, such as Facebook, Twitter, or personal blogs, much the same as they would be permitted to write a letter to the editor of a newspaper. If, when expressing a personal opinion, personnel are identified by a social media site as DoD employees, the posting must clearly and prominently state that the views expressed are those of the individual only and not of the Department of Defense.

Know your limits

By Cherish T Gilmore (AMC)

As the presidential election nears, personnel should re-visit the regulations that govern military and all Federal civilian employees concerning their participation in the political process.

The Hatch Act restricts the political activity of Federal civilian employees, including Department of the Army Civilians. The law was amended in 1993 to allow most employees to engage in certain types of political activity while in their personal capacity. DOD Directive 1344.10 outlines rules governing political activity by members of the armed forces.

“Neither the Hatch Act nor the DOD Directive 1344.10 restrict civilian employees and military members from exercising their right to vote,” said Lawrence J. Wilde, Army Materiel Command’s ethics counselor.

The restrictions pertain to participation in partisan political activities.

“We encourage voting,” said Wilde. “Know the left and right limits of your participation in partisan political activities. If you’d like to become involved with a political campaign, it’s a good idea to seek advice from your legal office first.”

Understanding what restrictions can apply depends on your status as a federal employee. The Hatch Act classifies employees into two groups: a “less restricted” group and “further restricted” group.

“The vast majority of DOD employees are classified as less-restricted employees,” explained Wilde. “Further restricted employees include career senior executive service employees, political appointees, and employees of certain federal agencies like the National Security Agency, Federal Bureau of Investigation and Defense Intelligence Agency.”

Less restricted employees may actively participate in partisan political activities such as making phone calls for a candidate in a partisan election, working for a political party to encourage voting, or handing out campaign literature.

The Hatch Act dictates, however, that none of these activities may be done while on duty or by using their official position, in a federal building or vehicle, while wearing a federal uniform or insignia, or by using official resources, like computers.

“Although employees may contribute money to candidates, no federal employee, military or civilian, may solicit or accept

campaign contributions at any time,” said Wilde. “So, for example, if a civilian employee is working the phone bank for a candidate, they may not read any part of a script that solicits contributions even though the employee is off duty and totally anonymous to the potential voter.”

This also applies in the world of social media.

“Employees may not forward by email or social media any websites or posts that solicit or contain a link for campaign donations,” said Wilde.

The rules for further restricted civilian employees and military personnel are stricter. Both must refrain from any political activity that could associate DOD with a partisan political candidate, group or activity.

“This means that military personnel may not campaign for a political candidate in a partisan election, speak at a partisan political gathering, hand out campaign literature, or solicit campaign contributions,” said Wilde. “They may not place a political sign on the lawn of their government quarters. On social media, they may follow, friend or like a party or a candidate, but may not post, forward, share, or re-Tweet links and comments from them. If a member of the military or a further restricted civilian employee ‘likes’ a candidate or political group, the privacy settings on social media sites should be changed to preclude others from seeing these preferences.”

Wilde singled out four rules to keep handy for all federal employees and military members:

- Do not solicit campaign donations on or off duty.
- Do not wear campaign buttons on duty, in a federal facility, or in uniform.
- Do not forward partisan political articles, websites, or political cartoons while on duty, in a federal building, or using a government computer.
- Do not invite subordinates to political events, or use your rank or official position in any way to influence the political process.

Violations of the Hatch Act are investigated by the Justice Department of Office of Special Counsel. Punishments include the full range of administrative disciplinary action, to include removal. Members of the military may face discipline for violating DoD Directive 1433.10 and pertinent provisions of the Uniform Code of Military Justice.

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LOGISTICS MODERNIZATION PROGRAM INCREMENT 2 WAVE 3 GOES LIVE

Crane Army Ammunition Activity has taken the next step in embracing a new version of the Army's Logistics Modernization Program—a supply chain, maintenance, repair and overhaul planning and execution solution that replaces 35-year-old legacy systems—in an enterprise-wide effort to supply and service our nation's warfighters more quickly.

Army Materiel Command's national-level ammunition management processes formerly required multiple systems to receive, store, inspect and issue ammunition. The integration of multiple systems caused timing issues which impacted real-time visibility and accountability of ammunition assets. One of the systems was LMP Increment 1, which managed ammunition utilizing a third-party software to transfer data from ammunition plants like CAAA into the LMP system. LMP Increment 2, Waves 1 and 2, went live in 2014.

On May 23 of this year, at 6:12 Eastern Daylight Time, the Army turned on the LMP Increment 2 Wave 3 functionality at the remaining 14 Army Materiel Command Organic Industrial Base sites, which of course included CAAA.

With the introduction of Wave 3 Extended Ammunition functionality, the "middle man" is removed and data goes directly from standardized Automatic Identification Technology, or AIT, handheld devices into LMP.

"Increment 2 includes the Enhanced Industrial Base or EIB and the Extended Ammo Solution," said Mark Helms, Plant Support Directorate. "These enhancements are designed to incorporate more process capabilities, including AIT, into both our

manufacturing capabilities and ammunition logistics processes."

LMP Increment 2 adds a wide variety of capabilities to LMP ranging from shop floor automation in the depots to support for managing Army Prepositioned Stock in strategic locations worldwide. The Extended Ammunition capability automates and streamlines the ammunition management processes by standardizing the AIT with the intent of reducing data entry time, improving visibility of material receipt and shipment performance metrics while utilizing standard business processes across ammunition plants and warehouses, ultimately allowing the Army to deliver a solution that supports missions worldwide.

When CAAA deployed Increment 1 in Oct 2010, the largest impact was to the shop floor processes in the Manufacturing and Engineering Directorate. Although Depot Operations began using SmartChain for ammunition management as part of Increment 1, this was not a huge departure from their previous business practices. With Increment 2, the situation is reversed. There is minimal impact to ME but for DO SmartChain has been taken offline and ammunition management is now executed entirely in LMP.

Approximately 14,000 users began using LMP Increment 2 functionality in May 2016. "The transition has not been as smooth as hoped for with many end users being unable to execute transactions due to problems with their Functional Security Roles," Helms said. "These problems have been observed enterprise wide, not just at CAAA. Issues are being worked and the system is slowly working out the bugs."



IN THE SPOTLIGHT: PLANT SUPPORT DIRECTORATE

Provides support services to CAAA

- **LMP management**
- **Plant maintenance**
- **Metal fabrication of CL V & non CL V components/kits/devices**
- **Tool crib management, internal transportation, laundry services**

Support Directorate Equipment investments

Two new pieces of machining equipment were installed on the shop floor in May 2016



**AKS Water Jet
\$242K**

**Hurco Vertical Machining Center
\$248K**



CRANE ARMY HELPS ARMY SCIENTISTS REMANUFACTURE ROCKET

By Nikki Montgomery, AMRDEC Public Affairs

The U.S. Army Aviation and Missile Research, Development and Engineering Center is working with the missile community to remanufacture used rocket igniters to provide soldier training and practice rockets for the Army.

The Guided Multiple Launch Rocket System, or GMLRS, is the Army's primary precision strike artillery weapon. To conduct the proper training for munitions handling, loading and fire control systems, the Army uses a GMLRS training round, the Low Cost Reduced Range Practice Rocket.

The LCRRPR rounds are built by a commercial supplier, but as the Army's training needs continue to grow, the Precision Fires Rocket and Missile Systems Project Office is investigating ways to increase production capacity and reduce product cost.

PFRMS has partnered with AMRDEC's Weapons Development and Integration Directorate, Letterkenny Munitions Center and Crane Army Ammunition Activity to remanufacture and reassemble used rocket igniters to support the production of LCRRPR practice rockets.

WDI's Missile Sustainment Chief Robert Little said there could be a cost-effective solution to provide additional practice rounds for training in the Army.

"The most time consuming element of manufacture for these units is the electrical connector and initiator assembly," Little said. "If we are successful in recovering and reusing these, it would allow the Army to salvage an estimated 75,000 used Multiple Launch Rocket System M26 igniters that would otherwise be demilitarized."

During the LCRRPR Alternative Source Igniter Proof of Concept program, 12 igniters were remanufactured at CAAA and sent to WDI for testing. Non-destructive tests and inspections were performed to ensure consistency of manufacturing to specification requirements. This included a chemical analysis of the igniter's pyrotechnic compound, Magnesium Teflon Viton.

"This program has the potential to save the government the cost and effort of demilitarizing the hardware and provide a reliable alternate source of supply in training rounds for Soldiers."

**-Robert Little
Missile Sustainment Chief
AMRDEC Weapons Development
and Integration Directorate**

In April 2016, one open air functional test of an igniter assembly and six full scale motor functional tests were successfully conducted at WDI static test facilities on Redstone Arsenal. The open air test was performed as a system check, ensuring the igniter would exhibit proper timing prior to full motor functional test.



In April, one open air functional test of an igniter assembly and six full-scale motor functional tests were successfully conducted at WDI static test facilities on Redstone Arsenal. The open air test was performed as a system check, ensuring the igniter would exhibit proper timing prior to full motor functional test. The testing proved remanufactured igniters could successfully ignite LCRRPR motors with no abnormalities. Pressure and thrust were recorded for the motors to evaluate igniter and motor performance against requirements.

"The Proof of Concept phase has successfully demonstrated feasibility for use," said Justin Grissim, mechanical engineer and technical lead for the project. "The next phase of the effort is to conduct a detailed qualification program, in which the remanufactured igniters will be subject to rigorous environmental conditioning and functional test, meant to simulate realistic field deployment."

"This program has the potential to save the government the cost and effort of demilitarizing the hardware and provide a reliable alternate source of supply in training rounds for Soldiers," added Little.

The program is scheduled to conduct the qualification phase in late 2016. This will include test firing at White Sands Missile Range, New Mexico.



(Left) WDI testing performed on a static test stand.

OPSEC


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your safety



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