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# Test System Upgrade Brings Safari Capability, Other Benefits

By Al Vogel

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Dugway Proving Ground's West Desert Test Center (WDTC) is adding critical software and hardware improvements to streamline the Test Grid Data Management System (DMS), and the Test Grid (TG) network, used to test equipment that warns the warfighter of chemical or biological agent. The more efficient improvements will reduce operational costs in future testing.

The Open Architecture Data Management System (OADMS) project, a first-of-its-kind system for Army Test and Evaluation Command, upgrades the current Test Grid Safari Instrumentation (TGSi) software and hardware system. OADMS provides an improved, fully instrumented and networked outdoor test capability to conduct developmental or operational tests on chemical or biological defenses.

Verification testing of the OADMS upgrade began mid-July and is expected to continue into August 2020. Current work focuses on integrating the improved Chemical Cloud Tracking System (iCCTS) with



The OADMS upgrade will simplify the collection of data after a disseminator, shown here, releases simulated chemical or biological agent to challenge a detector. Decades-old international agreements ban the release of actual chemical or biological agents outdoors, so simulants are used. Testing with actual agents is done in sealed chambers with multiple levels of containment and filtration. Photo by Joe Mashinski

OADMS. Verification will be by GASMET® FTIR emissions detectors, and the West Desert LIDAR (a pulsed laser light detection and ranging system developed at DPG).

OADMS will offer the capability to "safari" off DPG to other Major

Range and Test Facility Bases (MRTFB) or other test sites, said Project Manager Nathan Lee. Upgrade to a much smaller server, instead of using the permanent test server on DPG, makes this possible.

The former Test Grid used a

proprietary field data collector under service contract from the manufacturer. OADMS replaces this with a data acquisition box (sidecar) built with inexpensive, off-the-shelf components. A service contract is no longer

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## Command Perspective



By CSM  
Kyle R. Brinkman

Installation Command Sergeant Major

workforce and the community.

It was great seeing so many participants in the Independence Day activities. The parade was a fun event for all and the fireworks display was a great tribute to our nation. I ask all of you to thank the MWR Staff and First Responders that truly made all those events safe and possible during a very hectic fire season this year. They all are truly amazing in what they do every day.

There are some events being planned in the future like Dugwayfest, Trail Run, Halloween activities, and Winterfest that will have to be tweaked from their

normal itinerary; however, plans are in the works to maintain those type of community events. Please pay attention to the email traffic as we try our best to keep everyone informed.

The residents of Dugway are doing a great job maintaining their quarters and assigned areas this year. Keep looking around your areas and continue to make Dugway better every day. As we start to wrap up summer and move into the fall season, I ask all of you to be ready for the leaves to fall and the cold weather to creep in on Dugway.

I have noticed some of our children on the installation not wearing helmets when on bikes, skateboards, scooters, and such. It is an Army Policy and Dugway Policy that helmets are required

by all personnel on a military installation to wear helmets when performing these activities. That is a major safety concern here on Dugway as it is a long ride to proper medical facilities if one of our children has an accident. **Let's all work together to keep Dugway Proving Ground a safe place to work, live and play.**

As I close, I think about the two years that I have been here at Dugway and I can honestly say this is by far the most rewarding assignment in my 28-year career. I am humbled every day to be the Installation CSM for this great workforce and community tucked into the West Desert of Utah!

**EMPOWERING THE NATION'S DEFENDERS!**

## INSIDE YOUR DISPATCH



### UPGRADE BENEFITS



Upgrade will reduce operational costs in future testing.

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### COMMAND PERSPECTIVE



Summer is flying by. Don't worry, there's plenty of great events in store.

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### TESTING COMPLETE



Dugway personnel process data and write the final report on M53 mask.

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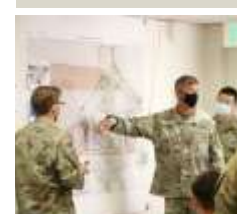
### STAYING PUT



COVID-19 precautions require training group to call Dugway home.

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### IT'S ONLY FITTING



Only active component chemical brigade comes to Dugway for training.

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August is Antiterrorism Month. Vigilance helps keep us safe.

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### CHAPLAIN'S CORNER



You can learn a lot about faith and resolution from history.

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AND MUCH MORE

# OADMS Upgrades ...

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required; sustainment costs are significantly reduced.

In addition, the OADMS simplifies the interface of new sensors, to include systems under test (SUT), by having a modular software design, and utilizing software drivers to interface to any device that is connected to OADMS. Compared to the current Test Grid,

maintenance and sustainment costs are reduced.

The OADMS will simplify the integration of new referee sensors (providing an accurate comparison against systems under test), and SUT that feed data into servers. Test setup will be easier through the use of plug and play/auto discovery of referee sensors as they are placed in the field.



The site of the Open Architecture Data Management System (OADMS) project at Dugway Proving Ground, where defenses are challenged with simulated chemical and biological agent. The OADMS upgrade, currently under test, will allow "safari" to other sites off DPG to set up a complete test grid, simplify data collection and reduce testing and sustainment costs. Photo by Al Vogel, Dugway Public Affairs



A trailer-mounted instrument tower used for outdoor testing of defenses against simulated chemical and biological agents at Dugway Proving Ground. The 10-meter tower folds down for ease in attaching instruments. The upgrade of hardware and software through OADMS depends upon this kind of mobility for test setup and, in the future, "safari" capability to take the testing system off DPG to other installations. Photo by Joe Mashinski



Dugway Proving Ground has 27 trailers, each with a 10-meter tower that folds down for ease in attaching instruments for outdoor testing. DPG also has 30 trailers with generators and a 53-foot command post that may be pulled by a tractor trailer. These all enhance "safari" capability under OADMS, allowing DPG to move testing off post to any other Major Range and Test Facility Bases (MRTFB) or other sites of interest. Photo by Joe Mashinski

# Lab Testing of New Spec-Ops Mask Ends

By Al Vogel  
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Trials of the M53 protective mask, to determine if it will be affected by a new, general purpose decontaminant, were completed June 30 at Dugway Proving Ground.

Test personnel are now processing data, generating charts and graphs and writing a final report on the M53, which is a variant of the standard issue M50 but designed for Special Operations personnel.

"It usually takes a month to get all the data compiled, and another month to write the report," said Project Scientist Dave Rose. When completed, the report will go to the Department of Defense for review, to decide whether the M53 may be used in the presence of the Joint General Purpose Decontaminant for Hardened Military Equipment (JGPD-HME).

The decontaminant is designed for vehicles, ship surfaces and weapons contaminated by chemical or biological agent. The current issue M50 mask was tested with the JGPD-HME decontaminant, Rose said, but the M53 required testing because it is a different configuration. It

has a larger viewing area, employs a powered air purifying respirator and differs otherwise from the parent M50.

In testing at DPG, each mask was sprayed with JGPD-HME decontaminant and given a 30-minute "weathering" period. Then, the masks were contaminated with HD "mustard gas" to determine whether protection to the wearer was affected. This replicated the mask being splashed or sprayed with JGPD-HME during decontamination operations.

M53 masks were also challenged with the new decontaminant in temperatures and humidity that replicated a wide range of operating environments.

If it is found that JGPD-HME does not affect the M53, it may be approved for widespread issue to Special Operations personnel. No other variations of the M50 are coming to DPG for testing, Rose said.

The JGPD-HME project is managed by the Joint Project Manager Chemical, Biological, Radiological, and Nuclear for Protection (JPM CBRN P), and is executed by the Decontamination Family of Systems (DFoS) Product Office (PO). Both are headquartered in Stafford, Virginia.



Lab testing of the M53 protective mask, a variant of the current issue M50, is completed. Testing determined whether the mask was degraded by exposure to Joint General Purpose Decontaminant for Hardened Military Equipment (JGPD-HME), created to decontaminate vehicles, ship surfaces and weapons exposed to chemical or biological agents.



Approximately 40 people stayed at DPG for four weeks to train on the Arcturus UAV JUMP 20. The group included student pilots and maintenance chiefs. Photos by Becki Bryant, Dugway Public Affairs

# Staying Put at DPG

By Becki Bryant  
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COVID-19 had employees with Arcturus, a private company based out of California, hunkered down at Dugway Proving Ground for four weeks straight to prevent bringing the coronavirus on post, while still being able to conduct their mission.

The company has been coming to DPG for years to train new employees, but this time there was no leaving the installation once everyone arrived.

“When this group arrived, we were just starting to allow outside

companies to come back to Dugway for training and testing purposes,” explained Stephen Balderas, Program Manager with the West Desert Test Center Special Programs Division.

“By requiring them to stay on post for the duration of their stay, we eliminated the risk of them bringing the virus to Dugway.”

The Arcturus group, made up of approximately 40 individuals including pilots and maintenance crew chiefs in-training, conducted classroom training for the first week, then created a small enclave of tents near WDTC’s V

grid for training activities that spanned another three weeks. For lodging, they utilized the on-post hotel. Unfortunately, because DPG was under HPCON Charlie, most of the installation’s facilities were closed during their stay, including the fitness center, community club, library, and swimming pool.

“The situation wasn’t ideal, but it worked,” said Justin Stanbrook, Arcturus Training Manager. “It allowed our field service representatives to get trained and out in the field to support Soldiers, and that’s what’s most important.”



The Arcturus UAV JUMP 20 is capable of vertical takeoffs and landings, eliminating the need for a runway. It is one of the platforms the U.S. Army is considering to replace the RQ-7 Shadow.

# 48<sup>th</sup> CHEM BDE at DPG

By Becki Bryant  
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It’s only fitting that the only active component chemical brigade comes to Dugway Proving Ground (DPG) for world-class chemical, biological, radiological, nuclear, and explosives (CBRNE) training.

DPG is the nation’s designated Major Range and Test Facility Base (MRTFB) for chemical and biological defense testing and training. Its West Desert Test Center (WDTC) consists of numerous laboratories, test chambers, ranges and facilities such as Mustang Village and Brauch Tunnel, which are used to replicate environments similar to what deployed Soldiers could face. In addition, the Soldiers work with and learn from DPG’s workforce, which is made up of PhDs, chemists, biologists, former military, and subject matter experts who share their expertise and experience.

“The time we spend at Dugway Proving Ground cannot be replicated anywhere else,” shared Col. W Bochat, Commander of the 48<sup>th</sup> Chemical Brigade. “What we practice here helps us protect the nation from chemical or biological hazards.”

Over a two week period, approximately 150 Soldiers with the 48<sup>th</sup> rotated through DPG and executed validation exercise (VALEX), gained valuable

training, and practiced and refined their tactics, techniques and procedures (TTPs) for recognizing, detecting, sampling and mitigating chemical and biological threats.

“Our objective was to provide realistic and challenging scenarios to optimize the Soldiers’ readiness,” said Wendell Williams, WDTC Special Programs Division Program Manager, who oversaw every detail of the 48<sup>th</sup> Chemical Brigade’s stay. “We also provided advanced education on chemical and biological threats, technologies and procedures to enhance their current curriculum.”

Soldiers performed a variety of tasks and were evaluated on their ability to follow a number of steps required to be ‘fully trained’ on each task. An example was recovering chemical warfare material; necessary steps included donning the appropriate personal protective equipment (PPE), using the buddy team method to don the PPE, and inspecting and verifying the PPE fit and function.

During the event, Brig. Gen. Antonio Munera, Commander of the 20<sup>th</sup> CBRNE Command, visited Dugway Proving Ground to observe the 48<sup>th</sup> Chemical Brigade, a subordinate element. He liked what he saw; he plans to bring additional CBRNE Soldiers back to Dugway Proving Ground later this year.



Soldiers with the 48<sup>th</sup> Chemical Brigade practice medical procedures and casualty care during a nighttime training exercise at Dugway Proving Ground. Photo by Kevin Gill, Dugway Scientific & Technical Photographer

# 48<sup>th</sup> CHEM BDE ...

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The Soldiers' white lab coats stand out under a black light as they prepare to observe a dispersal of simulated biological agents and practice aseptic sampling techniques during a laboratory practical at DPG. Photo by Mario Sandoval, Dugway Scientific & Technical Photographer



DPG Chemist Seth Lamb instructs Soldiers from the 48<sup>th</sup> Chemical Brigade on how to identify basic glassware that would be found in a synthesis lab for chemical warfare agent production. He discusses how they could identify the production process and collect a sample safely. Photo by Kevin Gill, Dugway Scientific & Technical Photographer



An Explosive Ordnance Disposal (EOD) robot, remotely controlled by a Soldier with the 48<sup>th</sup> Chemical Brigade, makes its way through Brauch Tunnel ahead of the initial entry team during a training exercise at Dugway Proving Ground. Photo by Kevin Gill, Dugway Scientific & Technical Photographer

## Antiterrorism Awareness Month 2020

By David Perkins  
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August is **Antiterrorism Awareness Month**, which is designed to raise awareness not only of the threat of terrorism, but also to encourage regular vigilance and communication to report activities that could result in potential threats.

What kinds of behavior does Dugway Antiterrorism Team mean? "People drawing or measuring important buildings" and "Strangers asking questions about security forces or security procedures" are two of the top indicators to be wary of, but also included in the list:

"An unattended briefcase, suitcase, backpack, or package...Cars or trucks left in No Parking zones in front of important buildings...Intruders found in secure areas...A person wearing clothes that are too big and bulky and/or too hot for the

weather. Chemical smells or fumes that worry you ...A person who is asking questions about sensitive information such as building blueprints, security plans, or VIP schedules without a right or need to know..."

These reminders may sound familiar; they are the same types of things posted in airports, train stations, bus terminals, etc. Antiterrorism Awareness Month is designed to bring these reminders back into the spotlight, serving as a reminder that we live in times which require this added watchfulness.

"If you see something, say something" is a common theme among the many agencies and websites when it comes to terrorism awareness, and that is being strongly emphasized in August. The Dugway Antiterrorism Team reminds us to **"Trust your instincts; if a behavior or activity makes you feel uncomfortable, REPORT IT."**

Report Suspicious Activity or Behavior



**iWATCH ARMY**

**iREPORT** **i KEEP US SAFE**

A Simple Observation  
A Single Report can lead to actions that may STOP a terrorist attack

Think about the power of that. The power of iWatch.

See Something Say Something

# New Chaplain Arrives

By Sydney Knight  
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We welcome Maj. Wes Gornall as the new Chaplain of Dugway Proving Ground. He and his wife, Eileen, and their family have travelled and lived in many different places around the world, and most recently were stationed at the Defense Language Institute in Monterey, California. During their time there, Chaplain Gornall worked as the Defense Language Institute Chaplain, and Eileen, among other things, led a **women's bible study group** called Protestant Women of the Chapel. The couple have four grown sons that live in various states and a dog named Luke.

Before his time as a Chaplain in the military, Gornall served for six years in the Air Force as a Security Specialist. In fact, the Gornalls met at Kirtland Air Force Base at a singles Bible study group, and have now been married for 36 years.

In addition to California, the wide range of places they have lived as a family include Fort Benning in Columbus, Georgia; Fort Carson just outside of Colorado Springs, Colorado; Menwith Hill Base in Birstwith, England; Fort Jackson in Columbia, South Carolina; and Fort Bliss in El Paso, Texas. Chaplain Gornall also was deployed in Iraq for 15 months with the Field Artillery and in Afghanistan for 12 months with an infantry unit.

When asked what their favorite places to live have been, Eileen says England because of the

strong community they found there, the opportunity to travel, and the chance to experience a different culture. Wes says the most fulfilling assignment for him **was in Afghanistan. He says, "I came into the service to help**



Dugway Proving Ground's new Chaplain, Maj. Wes Gornall and his wife, Eileen, stand inside the Hope Chapel. Photo by Porter Hansen, Dugway Public Affairs

**other Soldiers," and he felt that he was really able to help the soldiers there and make a difference in their lives.**

Eileen is originally from Albuquerque and Wes is from Colorado Springs. Education is important to both of them, and **they each have a master's degree, Wes in Divinity, and Eileen in Biblical and Theological Studies. Eileen describes herself as a "student at heart," and says she would be a perpetual student if given the chance. She got her bachelor's degree in English but never had much opportunity to use it, so for her master's degree, she says, "I wanted to go into something that I really loved."**

Wes always wanted to be a Chaplain in the military, and even through the challenges that come with the job, he has found it to be rewarding.

Chaplain Gornall would like the community of Dugway to know

**that, "As a Chaplain, my job is 24/7, and I want people to call me when they're in need. ...I'm here for them." A large part of his job and background as a Chaplain is to counsel people and help them in any way possible. Ministry, another important part of the job, is something that Wes and Eileen take on together, and their main goals while they're at Dugway are to strengthen the community and form relationships with people.**

They are currently hosting **services through the chapel's Facebook page (facebook.com/dugwayhope.chapel) on Sundays at 11:00 a.m., complete with music and a worship service.**

## CHAPLAIN'S CORNER

By Chaplain (MAJ) Wesley A. Gornall

Early in WWII during the Dunkirk evacuation, one member of Churchill's War Cabinet said that the prospects of rescuing the trapped British and French forces **by the channel looked "blacker than ever."** Churchill issued a directive to all ministers to put on a strong and positive front. He said, **"In these dark days the Prime Minister would be grateful if all his colleagues in the Government, as well as high officials, would maintain a high morale in their circles; not minimizing the gravity of events, but showing confidence in our ability and inflexible resolve to continue the war till we have broken the will of the enemy..."**

During difficult times, we all must recognize that confidence and fearlessness are attitudes that can be adopted and taught by example. Notice several things:

- Churchill acknowledged that England and the evacuation of Dunkirk was a **"dark day."** Be honest with yourself and others when work, relationships, schooling, or life isn't going well.
- He expected leaders to maintain high morale by having and communicating a determination to succeed. As leadership

goes, so do the followers. Your family, children, and co-workers are looking to you.

- He exemplified faith in the abilities and resolution of his leaders and the British people to win the war. Would your spouse or boss say you exemplify confidence and resiliency?

Life is not easy. We can readily see the darkness around us: difficulties, hurt, and disappointment. If we focus only on the negative, we could be overwhelmed. God said to **Joshua, "Be strong and courageous. Do not be terrified; do not be discouraged, for the Lord will be with you wherever you go."** God's love and presence gives us the freedom to acknowledge our dark days AND to have faith that we can survive and even thrive in difficult times.

As I begin my assignment here at Dugway, let me first thank you all for the warm welcome and support that we have received since our arrival. I am also grateful for the hard work of CH Gee which has helped smooth the transition, and I look forward to continuing a strong tradition of support and service to the Dugway community.

# New ATEC Leadership

During the U.S. Army Test and Evaluation Command (ATEC) Change of Command ceremony, 15 July 2020 at Aberdeen Proving Ground, Maj. Gen. Joel K. Tyler (left) relinquished duties as the ATEC commander to Brig. Gen. James J. Gallivan (right). [You can read more about the ATEC Change of Command ceremony here.](#)





## DEFENSE SUPPORT OF CIVIL AUTHORITIES

What is it?  
 The U.S. Army's Defense Support of Civil Authorities effort responds to domestic emergencies, to include homeland defense, homeland security, terrorist attacks, natural and man-made disasters and other events. The DSCA mission supports other federal agencies and helps communities in need, even while continuing to support the Army's vital mission of defending the homeland against all threats.

DSCA is a total force effort by all federal military forces - active, guard and reserve military forces, Department of Defense civilians, and contract personnel. The 2018 National Defense Strategy codifies DSCA as a primary mission of the Department of Defense.

What are the current and past efforts of the Army?

U.S. Army North, as U.S. Northern Command's Joint Force Land Component Command, works with FEMA to provide command and control for DSCA missions. Army North matches federal military support to mission assignments, which are validated requests for assistance. In collaboration with active, guard, and reserve forces and the Army Corps of Engineers, Army North:

- Rapidly mobilizes and coordinates requests for federal military assistance from federal, state, local, tribal and territorial partners.
- Matches federal military support to mission assignments, which are validated requests for assistance

- Remains ready to respond and to rapidly deploy personnel in support of civil authorities for emergencies and planned events such as:

- Pandemics
- Hurricanes
- Wildland Fires
- National Special Security events (United Nations General Assembly, the Super Bowl, the State of the Union Address, and the Democratic and Republican National Conventions)
- DOD Southwest Border Support Mission

What continued efforts does the Army have planned?

Army North will continue to provide lifesaving and life-sustaining capabilities in support of federal, state, local, tribal and territorial partners. Army North plans and trains, with partners year-round to be ready to support a broad range of disaster and emergency response requests, in exercises such as:

- Ardent Sentry
- Vibrant Response
- Fuerzas Amigas
- Civil Support Training
- Chemical, Biological, Radiological, Nuclear and Explosive Response Enterprise
- Validation and Training

Why is this important to the Army?  
 DSCA enhances overall mission readiness. Even as U.S. Army North conducts its primary mission of homeland defense, the forces are prepared to deploy at the "speed of need" to provide DSCA for natural or manmade disasters. Army North remains committed to protecting the American people.

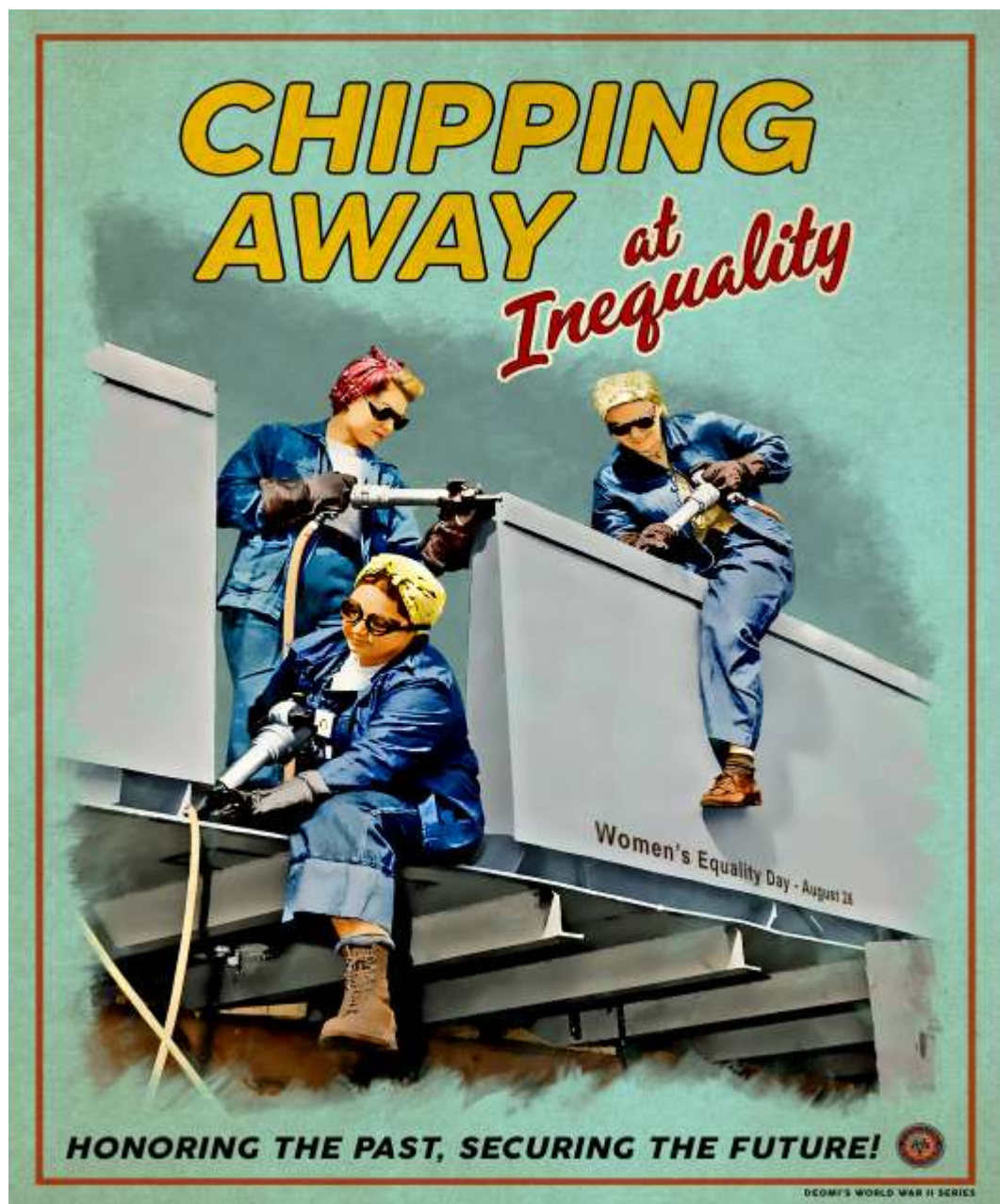
(Source - Army STAND-TO)

## New Agreement Signed

By Porter Hansen  
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On 21 July, members of the National Association of Government Employees (NAGE) signed a new Collective Bargaining Agreement (CBA) for Dugway Proving Ground. A CBA is a contractual agreement between an employer and a Labor Union that governs wages, hours and working conditions for employees. This also provides the opportunity for employees to address concerns and ensures DPG employees are taken care of for years to come.

NAGE members that signed off on the new CBA include (from top, left to right): Jon Palmer Jr., President, Local NAGER14-9; Vincent Liddiard, DPG Chief of Staff; Brian Peterson, Director of Resource Management; Lance McEntire, Chief of CWMD Support Branch; Brian Bennett, Chief of BioTesting Division; Aaron Goodman, Garrison Manager; Ross B. Lang, Electrical Technician; Melodi Gochis, Labor Relations Specialist, and Col. Scott Gould, Commander of Dugway Proving Ground.



News, information or comments may be submitted to:  
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