



THE DISPATCH

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Portable bio-detector facing first challenges

By Al Vogel
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The exterior of a tactical biological agent detector small enough to be carried in a backpack is undergoing preliminary testing at Dugway Proving Ground, to ensure it can protect its sophisticated innards from the rigors of military transport, handling and storage.

The Joint Biological Tactical Detection System (JBTD) is undergoing a variety of environmental or transport conditions, mimicking Saharan heat, arctic cold, jungle humidity, freezing rain, blowing rain, and salt fog. Transport aboard a ship as loose cargo, or in a vehicle bounding along a dirt road for hundreds of miles, are also replicated.

The environmental testing is governed by the Military Standard 810G, the most-used standard in government and industry. It specifies how environmental and dynamic (vibration, falling from heights, tumbling, etc.) challenges will be conducted to replicate the effects of environments on an item, rather than imitating the environment itself.

"We want to see what the outer



The Joint Biological Tactical Detection System is man-portable and battery powered. Transported by sea, air or land, it must function in a variety of environments. Its carrying case faces the same challenges, and is rigidly tested to ensure it will protect the detector that warns of a biological agent presence. Photo by Al Vogel, Dugway Public Affairs

shell will do," said Jon Hogan, the JBTD's test officer from the BioTesting Division, U.S. Army CCDC Chemical Biological

Center, Dugway Campus. "It's more of a risk reduction test, utilizing the Mil Standard protocols, than a final military

standard test."

This particular test concentrates on the exterior of the JBTD,

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Command perspective



By CSM
Kyle R. Brinkman
Installation Command Sergeant Major

Let me explain why I say that and mean it.

It starts with my Team Dugway! Every day I see a team of teams operating for the constant success of this amazing installation. Whether I am in a meeting, driving around the installation, attending an ORI, on a VIP tour, or showing up unannounced at a test; everywhere I go I see a team of teams. Every last thing accomplished here is not just accomplished by a team from one organization, one tenant or one division from within an

organization on Dugway. Every time I turn around I see multiple entities from across Dugway accomplishing our mission. As a Soldier who has served over 27 years, it is humbling to see the team concept that I have strived for everywhere I have been stationed be so successful here in our workforce and community. It really is something special here!

Safety Stand Down is the week of 18-20 February here at Dugway. I ask all of you to lean forward and think about that event and how important it is every year to set a tone as a Team to embrace safety, compliance, and personal development and all of its components that we will focus on that week. Whether the training is security, vehicular, individual, professional, or personally related to you it is

important for the entire workforce no matter what level it touches you as a member of Dugway. Safety has many facets to it and each one of them are equally important to ensuring that Dugway Proving Ground is the absolute safest test and evaluation location within all of Army Test and Evaluation Command. So let's all team up for an outstanding Safety Stand Down!

I close with a simple reminder, it is incumbent upon all of us to show ownership, stewardship, and team work in all that we do as a member of the workforce and community of Dugway Proving Ground as we all work "Empowering The Nation's Defenders!"

EMPOWERING THE NATION'S DEFENDERS

INSIDE YOUR DISPATCH



A CASE FOR TESTING



Environmental testing ensures reliability.

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COMMAND PERSPECTIVE



Set the team-work tone with Safety Stand Down.

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DEER GET A LIFT



Statewide initiative will help keep the deer and pronghorn safe.

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AND MUCH MORE

Portable bio-detector . . .

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because its complex interior instrumentation that detects harmful or weaponized microbes will change before the detector is finalized.

"Visually, the JBTDS will be identical, but interior instrumentation will be different," said Hogan. "For example, detector component No. 1 may be used in this test, but later live agent testing (in a sealed chamber) may use component No. 2."

Testing of the current exterior JBTDS with different interior instrumentation will be conducted sometime after 2020, Hogan noted. That testing will be the final Military

Standard 810G, when the exterior and interior will be tested in the same manner as a single unit.

Detectors that warn warfighters of approaching or present biological threats are rarely items of everyday use. They may be stored for long periods, and transported quickly under appalling conditions, before use. When a warfighter employs a biological detector, it must function accurately, as designed. Environmental testing governed by Military Standard 810G ensures the reliability needed when lives are at stake.



The integrated detector and collector of the Joint Biological Tactical Detection System (JBTDS) must function, and not be damaged, in this freezing-rain environmental test. Photo by Brittani Yale, Dugway Scientific Technical Photographer



Test Director Jon Hogan stands beside a Joint Biological Tactical Detection System (JBTDS) after a salt fog environmental test at Dugway Proving Ground. Hogan holds the JBTDS base station, which can control one unit, or a number of them for perimeter defense. Photo by Al Vogel, Dugway Public Affairs

GPS collars track deer and antelope migration

By Robert Rampton

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On a recent Friday, members of the Dugway Proving Ground Natural Resources Office, teamed with agents from the Utah Department of Wildlife Resources (UDWR), conducted an important activity aimed at preserving the health and safety of native mule deer and pronghorn. This coordinated effort, called the Utah Wildlife Migration Initiative, is a larger statewide program documenting migratory corridors and spatial areas and includes more than just mule deer and pronghorn. Participation in this initiative highlights the sound stewardship and environmental commitment Dugway has in place to support its overall mission.

A helicopter is utilized to locate and immobilize the animals by using a net gun. Animals are air-lifted to a staging area where DPG and UDWR personnel conduct health assessments where the animals are weighed, a blood sample taken and GPS collars are placed on them. The helicopter is also used to locate and retrieve collars that have ceased transmitting useful data due to the death of the animal from natural causes, predation or accident. During this most recent effort, 5 mule deer and 4 pronghorn were examined and collared.

Members of the Dugway community turned out to lend a hand including Col. Scott Gould, Dugway's Commander, his wife Petra and their son Gavin, as well as CSM Kyle Brinkman, Installation Command Sergeant Major.

"It was a unique learning experience for all of us," declared Col. Gould. "Learning how to assess the overall health of the mule deer, including fat reserves and muscle mass, can indicate how well the animal is surviving the cold winter months.

"This is a great opportunity to gain understanding for these native animals of Dugway in order to preserve our natural



A helicopter transports captured mule deer to a staging area for a health examination and to be fitted with a GPS collar. The animals are being monitored as part of a statewide initiative. Photo by Petra Gould

resources while conducting Dugway's mission."

The long-term goal is to understand migration trends and reduce the number of animal deaths due to vehicle strikes or other kinds of accidents. Gathered data can help officials plan more effective ways of warning drivers of animal crossing areas with more visible warning signs, or dedicated crossing areas.



Pictured (from left): Col. Scott Gould, Commander, and Installation Command Sergeant Major, CSM Kyle Brinkman assist personnel from the Utah Department of Natural Resources (UDWR) stabilize a captive mule deer during a health examination. Upon completion of the exam, the deer was fitted with a GPS collar. Photo by Petra Gould

Dugway receives modernized and mobile TGSi System



Dugway Proving Ground took receipt in December 2019 of a mobile, faster data system for testing chemical and biological agent detectors outdoors, using simulated agent. This Relocatable Command Post is part of the Test Grid Safari Instrumentation System. Photo by Joe Mashinski, U.S. Army

By Al Vogel

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The Test Grid Safari Instrumentation (TGSi) system, a highly modernized, portable upgrade of the process that tests chemical or biological threat detectors, was signed over to Dugway Proving Ground December 2019 by the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND).

The TGSi system, under development and construction since early 2006, cost tens of millions of dollars to build. It is a first-of-a-kind system that provides the U.S. Army Test & Evaluation Command (ATEC) with a comprehensive, fully instrumented, and networked field test capability to accurately disseminate, map, track, and referee a simulant chemical or biological cloud to assess the effectiveness of Chemical and Biological Defense Systems tested on the open range at Dugway Proving Ground for the warfighter. It provides the West Desert Test Center (WDTC) test

operators automated and centralized data collection, near real-time data display, data retrieval for post-test analyses, data time stamping and storage. Detector testing is streamlined by designed-in mobility and the real-time display and archive of detector-related test data.

Compared to the previous process, less data is wasted, and tests take less time because raw data and metadata are integrated during the test, instead of personnel integrating it post-test. The number of personnel required for a typical chemical detector test should be reduced significantly, and the upgrade may reduce test costs for customers, while its portability offers interesting options for challenging detectors in varied terrain, such as narrow canyons, the peak of small hills, on steep slopes, salt flats, etc.

"We offer various threat test scenarios," Test Officer Nathan Lee said. "Based on the threat scenario, we employ various types of point detection, standoff detection and dissemination systems."

Threats are created by mobile, truck-borne disseminators that release simulant agent in varied forms, chemical vapor or aerosol, or biological dry and wet aerosol. A point detector must be enveloped by the chemical or biological simulant cloud in order for detection to occur, but the **standoff sensors can "see" the cloud** and pictorially display it for the test participants to track its position and movement. This standoff sensor information coupled with the information provided by numerous anemometers, collocated with the point sensors, provides the test participants with much improved test situational awareness.

In keeping with decades-old international agreements, viable agents are forbidden from **outdoor release. "Safari" in the title means portability**, based on 30 trailers with power generators, 27 trailers with a 10-meter high tower for attaching instruments, a 53-foot long command post, referee detectors and disseminators, which are all portable. The system includes



Several 10-meter towers are raised in place with instrumentation affixed, ready to test chemical or biological detectors with simulated agent. The portable towers are part of the Test Grid Safari Instrumentation system, which was recently turned over to Dugway Proving Ground. U.S. Army photo

CHAPLAIN'S CORNER

By Chaplain (LTC) Shawn P. Gee

Valentine's Day

It's that time of year when we celebrate our love for one another by giving chocolates, flowers and cards to our loved ones. Did you know, on Valentine's Day, every year, there are at least 36 million heart shape boxes of chocolates sold in the U.S.? It is estimated that more than 250 million roses are produced for Valentine's Day and there are approximately 1 billion Valentine's Day cards exchanged every year in the U.S. alone. **If you're like me, you celebrate Valentine's Day but haven't put much thought into its origins. Well, I'd like to invite you to discover the historical background of Valentine's Day.**

The February observance of **Valentine's Day started in the time of the Roman Empire.** According to tradition, Valentine was a priest at Rome in the days of Roman Emperor Claudius II.

Under this emperor's rule, Rome was involved in many unpopular military campaigns and Claudius was experiencing difficulty recruiting soldiers to join the Roman military. Believing the reason was that Roman men did not want to leave their loves or families, Claudius canceled all

marriages and engagements in Rome.

At that time, Valentine secretly married young couples who came to him. Valentine was eventually caught and brought before the emperor. Claudius tried to persuade Valentine to leave Christianity and serve the Roman Empire and the Roman gods. In exchange, Claudius would pardon him. Valentine held to his faith, so the emperor sentenced him to death. While in prison waiting for his sentence to be carried out, Valentine ministered to the guards.

One of the guards, Asterius, had adopted a blind girl named, Julia. The guard asked Valentine to pray for his daughter. Before his execution, Valentine is reported to have performed a miracle by healing Julia and restoring her sight. On the evening before Valentine was to be executed, he wrote the first "valentine" card himself, addressed to Julia, who was no longer blind, signing as "Your Valentine." The expression "From your Valentine" was later adopted by modern Valentine letters.

Now, you know the historical **background of Valentine's Day.**

powerful data servers at a central data center.

Streamlining the detector testing process at Dugway will speed up the delivery of thoroughly tested chemical or biological threat detectors into the

hands of warfighters, first responders and investigators. In a constantly evolving CBRN threat, having the latest and finest detector readily available is no small comfort.



A mobile, 10-meter instrumentation tower is ready for testing on Dugway Proving Ground. Each trailer holds an electrical generator, data storage and communications. An inexpensive tent protects supplies and tools from the weather. U.S. Army photo



2020 Commander's Reception



The welcoming party included the Commander of Dugway Proving Ground, Col. Scott Gould (far right) and his wife, Petra (second from right), the Installation Command Sergeant Major, CSM Kyle Brinkman (left) and his wife, Melissa (second from left).

The Commander of Dugway Proving Ground, Col. Scott Gould and his wife, Petra, hosted a Commander's Reception on January 16, 2020. The annual event offers an opportunity to meet with external stakeholders such as military and community leaders, elected officials, and local universities to welcome the New Year, celebrate Dugway's past achievements, and share future opportunities.

Col. Gould spoke of several key milestones Dugway achieved throughout 2019, including the beginning of non-traditional agent testing, the return of smoke and obscurants testing, ISO 17025 accreditation for the Chemical Test Division (CTD) and a 25 percent workload increase for the West Desert Test Center.

"Dugway Proving Ground has a great cohort of people who are doing great things in support of our warfighters," said Col. Gould during his remarks.

Various displays helped illustrate how Dugway completes its mission to empower the nation's warfighters against chemical and biological threats. Items such as protective masks, boots, gloves and suits, various chem/bio agent detectors, and a smoke-generating unit—all tested at Dugway Proving Ground—were on display along with unmanned aircraft systems, a biological production equipment used for identification training, and key testing fixtures such as the SMARTMAN.

At the end of the evening, Col. Gould thanked guests for coming to the reception, acknowledging that Dugway Proving Ground would not be successful without their support.



Col. Scott Gould and his wife, Petra, welcome Jennie Taylor, the newly appointed Utah Civilian Aide to the Secretary of the Army. Taylor was sworn in during a ceremony at the Pentagon just a few days prior to the reception.



Tooele County Commissioner Tom Tripp (left) and his wife, Liz, talk with Chris Johnson, Chief of the Special Programs Division (SPD), about the division's capabilities.



DPG Commander, Col. Scott Gould, addresses attendees of the 2020 Commander's Reception on Jan. 16.

Photos by Becki Bryant, Dugway Public Affairs



Meet the Military

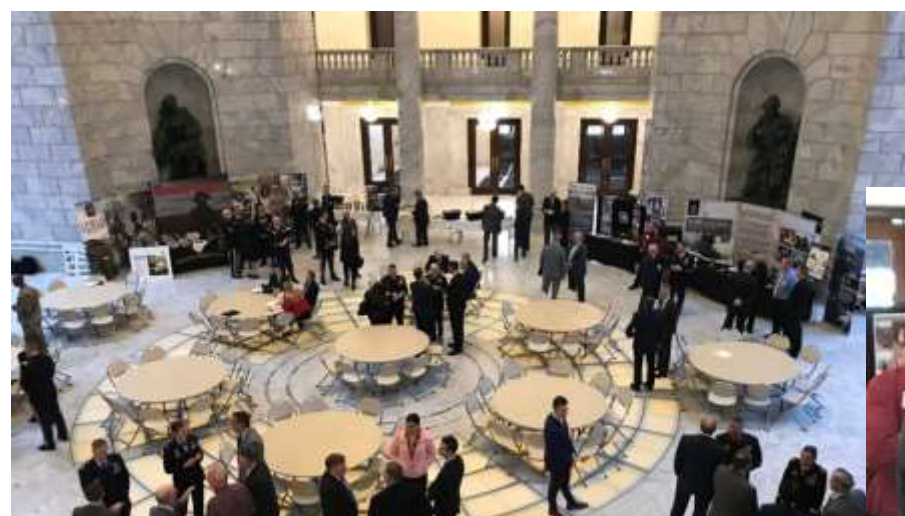


Dugway Proving Ground shared its mission with state legislators on Jan. 28, 2020, at the annual Meet the Military event.

Held on just the second day of the 2020 General Session in the Utah Capitol Building, the event provided an opportunity for DPG and other Utah military installations, organizations and units to educate state lawmakers about how they strengthen the country's defense capabilities.

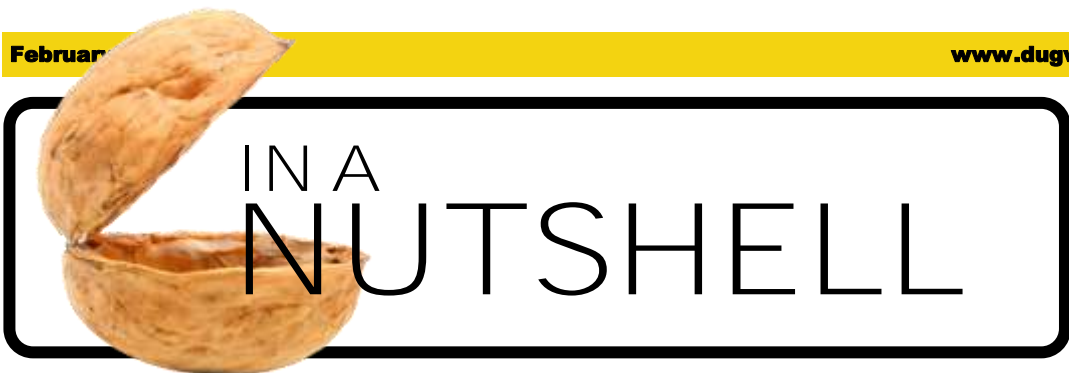
"This event gives us an opportunity to share our story with lawmakers," said Dr. Kenneth Gritton, Technical Director, West Desert Test Center, Dugway Proving Ground. "Some lawmakers may not grasp the full spectrum of what we do at Dugway Proving Ground, and this event offers us a chance to educate those lawmakers about our mission and how we protect the warfighter against chemical and biological threats. We also get the opportunity to discuss quality-of-life issues that affect our workforce and the local communities where we live."

This is the sixth year the Meet the Military event has been hosted by the Utah Defense Alliance, a group that works to support and strengthen the defense and aerospace industry in Utah.



Photos by Becki Bryant, Dugway Public Affairs





TRANSFER OF ARMY MEDICAL TREATMENT FACILITIES

What is it?

The transfer of Army Medical Treatment Facilities is a major organizational change. This transition of the medical treatment facilities (MTFs) to the Defense Health Agency (DHA) will preserve the capability of the Department of Defense (DoD) and the U.S. Army to conduct the full range of military operations globally with medically ready personnel.

This is Army Medicine's ongoing effort to globally align medical operations as outlined in the National Defense Authorization Act (NDAA) 2017 and 2019 with the National Defense Strategy (NDS).

What are the current and past efforts of the Army?

On Oct. 1, 2019, DHA assumed management and administration of all Army, Navy, and Air Force stateside MTFs, including facilities in Hawaii, Alaska and Puerto Rico. This is an ongoing process that will expand to include overseas locations over the next few years.

- The new healthcare system is designed around the beneficiaries and delivered through military MTFs and military-civilian partnerships while MTFs will remain the primary place to ensure Army uniformed medical personnel maintain operationally relevant skills.
- The DHA's implementation plan details the multi-year, conditions-based transition of the MTFs from the military departments to the DHA with a complete the transfer of all MTFs NLT Oct. 1, 2021.

- Post transition, MTF commanders will maintain their roles as the Director of Health Services (DHS) at the installation and continue reporting to the Senior Commander on the installation.

What continued efforts does the Army have planned?

Army Medicine will continue to work with DHA to maintain access to the best possible health care for the Soldiers and Families.

- Standardized clinical care and administrative processes for beneficiaries, such as improved patient appointments and update of electronic healthcare records.
- Select MEDCOM civilian positions designated as functions that will transfer to DHA will begin to transition to the DHA on Feb. 2, 2020, including all MTF civilians and select civilians.
- NDAA 2020 gives the Office of the Secretary of Defense (OSD) the authority to place Army Medicine employees into DHA positions, using voluntary transfers and competitive hiring actions.

Why is this important to the Army?

The transfer of Army hospitals to the DHA is designed to create a more integrated health care system, improve patient outcomes, and enable the readiness of the Army to support the Joint Force. The Army will continue to ensure medical readiness, support wartime requirements and enhance the quality of care for Soldiers and their Families.

(Source - Army STAND-TO)

M.L. King Breakfast urges service to community

By Al Vogel
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A Jan. 22 Prayer Breakfast honored the birth and legacy of Dr. Martin Luther King Jr., opening with an invocation by Chaplain (Lt. Col.) Shawn Gee of the Dugway Hope Chapel. The event was hosted by the chapel and the Community Club, and sponsored by Army Community Services. Corey Mondragon, master of ceremonies, thanked the approximately 100 workers and residents who gathered to honor Dr. King's life, work and legacy of nonviolent protest to improve civil rights.

Garrison Manager Aaron Goodman reminded all that the annual holiday is more than a day off, but a day to serve your community. He urged everyone to, "Take the time to volunteer and stand up for justice. It's part of the Army way and Dr. King's way."

King's way."

A stirring video was shown, outlining Dr. King's use of nonviolent protest to call attention to civil injustices, reminding viewers that it remains effective today.

The presentation noted that a person has not lived until that person leaves their narrow concerns and begins to address the broader concerns of the society they live within.

Col. Scott Gould, Commander of Dugway Proving Ground, spoke briefly about his family visiting the Lincoln Memorial in Washington D.C., and the emotion of standing where Dr. King stood when delivering his Aug. 28, 1963 "I have a dream" speech.

The one-hour event ended with presenting Mondragon a Dugway Certificate of Appreciation for organizing the event.



Corey Mondragon, Budget Analyst with Resource Management, was the master of ceremony during the Dr. Martin Luther King Jr. Prayer Breakfast Jan. 22, 2020, at Dugway Proving Ground. Photos by Al Vogel, Dugway Public Affairs



Approximately 100 attended the Jan. 22 prayer breakfast honoring Dr. Martin Luther King Jr. and his legacy. The other side of the room, not shown here, was full too.



Budget Analyst Corey Mondragon received a Dugway Certificate of Appreciation from, left to right: Command Sgt. Maj. Kyle Brinkman, Col. Scott Gould, and Garrison Manager Aaron Goodman. Mondragon organized the Prayer Breakfast and was its master of ceremony.

THE DISPATCH

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