



# Experienced Soldiers test improved Stryker NBCRV

By Al Vogel

albert.c.vogel.civ@mail.mil

An early version of the improved Stryker NBCRV (Nuclear, Biological, Chemical Reconnaissance Vehicle) was recently challenged at Dugway Proving Ground (DPG) by Chemical Corps Soldiers in a series of authentic test scenarios.

The Early User Feedback Event (EUBE) was conducted to help developers improve the sensor suite that makes up the prototype Modular Mission Payload (MMP), an upgrade to the eight-wheeled, 30-ton vehicle. By giving Soldiers hands-on experience on the MMP, engineers can apply feedback and lessons learned to improve the effectiveness of the sensor suite.

“The goal is to get early user feedback from the Soldiers as we develop it,” said Joe Hauer of Logistics Management Support.



The Mobile Mission Payload (MMP) is deployed as a stationary detection point, and a satellite communications disk is set up beside it. The Stryker NBCRV can remain in the area, retreat to a less noticeable place, or send the RENDR on nearby missions via remote control. Photo by Kevin Gill, Scientific & Technical Photographer, Dugway Proving Ground

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## Command perspective



By COL Brant D. Hoskins  
Commander, Dugway Proving Ground

The Remote and Isolated Initiative that I have discussed with many of you should enhance our mission support capabilities. While neither one of these initiatives are yet complete, my assessment is that we have achieved unstoppable momentum and charted a course toward a brighter future for DPG.

I am proud of many things we have achieved in the community including (not limited to), the Victory Garden, the Swap Shop, many Parent Teacher Student Organization events, and many great Chapel and MWR programs to name a few. All of these programs or events were made possible with the gracious support of volunteers. It was not unusual to see Sam Hill and Sage Farmer using a ton of their personal time to establish the garden and mentor new gardeners. Big thanks also go out to my wife Janine Hoskins, Melissa Brinkman, Tina Ruth, Sofia Bishop and others for re-establishing and operating the

Swap Shop. Thanks to Johnnie Jost for quilting classes and a huge shout out to all of the parent and friends of our Dugway High School PTSO for the many great events put on to support our kids. Thank you to all of our volunteers for making DPG a better place to live!

A hearty thank you goes out to the men and women filling critical mission support roles across the post. Whether it's the Garrison Staff, MICC, LRC, or the Health Clinic, there is so much that each of these organizations contribute to our success...thank you! I want to extend a special thanks to the Dugway DES for working day and night to keep us safe. Your efforts to prevent and extinguish the wildfires that we have seen over the past two years have been phenomenal; I hope you get a break this year. Thanks also to the MWR team for battling through a tough year to deliver topnotch support to the community...much appreciated. I am also proud of the support provided by our Occupational Health Clinic...recognized throughout the Army

as the standard bearer for occupational medicine. I cannot forget to mention the award-winning DPG MICC for their superb support despite their small size.

A hearty thank you also goes out to DPG's mission organizations: WDTC, BTD, and RIAC. I cannot overstate your continued contributions to our nation's defense. I know there are a thousand things that can detract from mission planning and execution, a contentious budget meeting, a late night on an objective, or challenges with sub-par test facilities. Despite these challenges, you have a keen ability to remain focused in the present with an eye toward the future.

Finally, I want to extend a special welcome to COL Scott Gould and family. Scott is a proven leader and I know he will give his best for DPG's mission and people... You will be in very good hands! Thank you all for a wonderful two years; I will enjoy watching Dugway from afar and I look forward to the time that I can visit. All the Best!  
COL Hoskins

On 18 July, I will be changing command with COL Scott Gould and my family and I will be heading east to Maryland. We will miss Dugway – the people and the place! We have met so many wonderful people here and we have come to love Utah, the desert, mountains, the towns...there is a lot of great stuff to do here and we will miss it.

Over the past two years we have worked hard to advocate for our mission and the resources required to carry it out. Specifically, the development and realization of the DPG 2040 strategic plan that will better enable us to meet our mission requirements.

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AND MUCH MORE



## West Desert's first ever new employee brown bag lunch



By Porter Hansen  
porter.k.hansen.civ@mail.mil

West Desert Test Center's New Employee Brown Bag Lunch was launched this June in an effort to create better cohesion between new hires and senior employees. Kimberly Kloser, Dugway HR Officer, organized the event to provide opportunity for new hires to ask questions about all things Dugway in a casual and relaxed setting. The supervisors attending gave useful advice on things to do on the installation as well as amenities that are offered.

A short video explaining the mission and capabilities of Dugway Proving Ground kicked off the event. They talked briefly of the importance of employees

working together. Kloser explained, "New employees many not feel part of the team. We hope through this event that we can create a team feeling between them and upper level management."

This event was equally helpful for new hires as much as it was for management. Those newly hired were able to give feedback that may assist in improving the advertising and hiring process. Ryan Harris, West Desert Test Center Director, feels the event was a success. "It was a great opportunity for management to meet the new hires and get them familiar with the Dugway mission."

## Soldiers test NBCRV ...

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"The intent is to get user feedback from the process in the shortest time possible for the project."

Operator feedback at DPG was provided by Soldiers from the 63rd Hazard Response Company stationed at Fort Campbell, Kentucky. Dugway Proving Ground's nearly 800,000 acres allowed the Stryker NBCRV and its prototype MMP to roam miles, searching for radiation sources and simulated chemical contamination applied for various scenarios. For more than 75 years, DPG has tested defenses against chemical and biological agents, accruing a wealth of knowledge, experienced personnel, peerless facilities and renowned scientists.

The MMP is an integrated package of six chemical and radiological sensors. Some of the sensors are prototype, while others are improved versions of established sensors. The MMP may be mounted on the Stryker NBCRV, the Robotic Extension Node Demonstrator for Reconnaissance (RENR) for towing by the Stryker, or used as a stationary installation. The RENR mounted with the MMP, when unhitched from the Stryker, is remotely controlled by the Stryker crew to roam and survey potentially contaminated territory, more than doubling the surveillance area and greatly reducing the crew's risk of exposure to contamination.

"The CBRN community and industry put together an integrated product, Hauer said. "We're really trying to bring the Soldier into the 21<sup>st</sup> Century."

The sensors in each Modular Mission Payload are:

- The Chemical Surface Detector (CSD), which uses a laser and spectrometer to analyze liquid and solid contamination on the ground, while the NBCRV or RENR is moving. The CSD will soon be further tested in a new, sealed chamber at DPG, where it will move at up to 10 mph above various surfaces contaminated with actual chemical warfare agents.
- The Deep Purple Unmanned Aircraft System. Powered by four rotors, the Deep Purple provides a bird's-eye view of suspected contamination areas. When fitted with a Chemical Detection Module (CDM) sensor, it can fly into a suspected chemical cloud to determine its composition and extent.
- The Improved Mobile Chemical Agent Detector. A standoff sensor that identifies chemical agent vapors up to six kilometers (3.6 miles) away from the vehicle and maps their location.
- The Joint Chemical Agent De-



A Soldier checks the Deep Purple Unmanned Aerial Vehicle. The 4-rotored craft can fly into a suspected chemical agent cloud and, with its sensors, determine the composition and extent of the cloud. Photo by Al Vogel, Dugway Proving Ground Public Affairs

tor (JCAD) point detector.

The JCAD must be in the contaminated area to detect and identify the chemical agent. If an identification occurs, the JCAD warns the Stryker crew.

- The Vehicle Integrated Plat-

enables rapid stationary detection, location and imaging of radioactive hotspots. The Applique subsystem (MERLIN-A) is comprised of four sensors mounted on the corners of the NBCRV or RENR and pro-



A Stryker NBCRV, towing a RENR with an array of sensors identical to the Stryker's, stops during a test to consider the next move. If it were an advantage, the RENR could be unhitched and remotely piloted into an area to detect for chemical agent or radiation. In this photo, the Deep Purple Unmanned Aerial Vehicle is launched from the RENR. Photo by Kevin Gill, Scientific & Technical Photographer, Dugway Proving Ground

form Enhanced RADIAC (VIPER), a radiological nuclear point detector that provides radiation dose levels inside the Stryker for the monitoring and protection of the crew. VIPER can also provide approximate radiation levels in the environ-

vides on-the-move detection, identification, and mapping of a radiation field.

The EUFE brought Greg Gastan to DPG for the first time. Gastan, the Deputy Joint Product Manager for Reconnaissance and Platform Integration under the



The RENR may be unhitched from the NBCRV and used as a stationary NBC array, or guided by remote control from a crew member inside the NBCRV. If the NBCRV identifies a potentially contaminated area using its standoff sensors, the RENR may be sent to provide threat detection, reducing risk to the NBCRV crew. Photo by Kevin Gill, Scientific & Technical Photographer, Dugway Proving Ground

ment outside the vehicle that could affect operations, crew health and safety.

- The Mounted Enhanced RADIAC Long-Range Imaging Networkable (MERLIN) consists of two subsystems that are complementary but work independently of each other. The imager subsystem (MERLIN-I)

office of the Joint Project Manager for NBC Contamination Avoidance, said he was impressed by DPG and the efficiency of the testing.

"It's going well. We're garnering a lot of lessons learned. The support from Dugway Proving Ground has been exceptional," Gastan said.

The **CHAPLAIN'S CORNER**

will return in the August issue of

THE DISPATCH

# GPS trackers on golden eagles: safe testing around nesting

By Al Vogel  
albert.c.vogel.civ@mail.mil

Why are wildlife biologists putting GPS trackers on fledgling golden eagles at Dugway Proving Ground (DPG)? The most succinct answer is to provide, "Testing Around Nesting."

When Robbie Knight, DPG's wildlife biologist and Natural Resource Manager, heard the phrase he laughed, yet conceded it was an accurate description of a program that began 12 years ago.

In 2007, DPG became the first installation in the Army to place GPS trackers on adult golden eagles, to study their movements. This includes tracker use on golden eaglets old enough to have flight feathers that allow them to leave the nest.

Placing GPS trackers on adult and fledging golden eagles is part of this multi-year study to acquire data on when eggs are laid and hatched. This data helps biologists precisely advise training and test officers on actions to minimize potential range schedule conflicts without endangering the birds.

Avoiding golden eagle conflict is critical; federal laws forbid disturbing, harassing or injuring any birds of prey. Approximately 12 separate golden eagle territories



Eric Chabot of Hawkwatch International rappels down a cliff toward a golden eagle nest with two fledglings in it. Dugway has the largest golden eagle tracking program in the Army. With such data, schedulers know when and where to conduct training and testing, to avoid endangering the protected birds. Photo by Ennalee Scott, BYU Communications School

are known to exist within and around DPG. Not all territories are active annually, but are frequently active and include nests at Wig Mountain, 5 Mile Peak,

## Granite Peak and Camel's Back peak.

Extensive coordination with the Air Force Environmental staff also tracks active territories throughout the Military Operating Area (MOA) and specifically, in the USAF north and south cantonment areas.

The deck of cards-sized GPS tracker is affixed to a loose-fitting harness attached to the golden eagle. A signal is broadcast multiple times each day.

"Obviously, they know it's there. It doesn't seem to bother them," Knight said, noting that the DPG wildlife biologists were trained to attach the harness and allowed a rare permit from the U.S. Fish and Wildlife Service (USFWS).

A recent addition, and key to the study's success is a drone operated by the wildlife biologists, the DPG Rapid Integration and Acceptance Center (RIAC) and Redstone Arsenal's Target Management Office. The commercial DJI Matrice 600 Pro unmanned, six-rotor aircraft is about three feet in diameter.

The biologists closely coordinate with experts assigned to RIAC. Headquartered at Redstone Arsenal in Alabama, RIAC is a tenant unit at Dugway that tests modifications and improvements to military drones. The drone eliminates hiking to nests to determine if they are occupied, which may take hours. Increased



At the base of the cliff, the golden eagle fledgling receives a loose-fitting harness that carries a GPS tracker that will broadcast its location for three to five years. It is then returned to the nest. With the tracker, biologists will know exactly when it leaves its nest and where it is. Photo by Ennalee Scott, BYU Communications School

# Smoke-Testing Team Thanked

By Becki Bryant  
becki.m.bryant.civ@mail.mil

With the Screening Obscuration Module (SOM), a small smoke-generating system with innovative capabilities, smoke testing returned to Dugway Proving Ground (DPG) for the first time in 12 years. But bringing it back af-

this by myself," said Capp. "I had a team of talented, hardworking individuals that contributed to the success of both the planning and execution of the SOM testing."

Their hard work was recently recognized by the Joint Program Executive Office for Chemical, Biological, Radiological, and Nu-



From left: SOM team members Troy Johnson and Greg Gastan officially thank Dugway employees John Cromack, Sarah Densing, Johnny Gallegos, Janica Kendall, Jeremy Nielsen, Karl Scott and Thomas Shane for their contributions to the recent testing at DPG.

ter such a long absence, "was a daunting task," admitted Troy Johnson with the Joint Project Management Office for Nuclear, Biological and Chemical Contamination Avoidance (JPM NBC CA).

The tough job of planning and executing the SOM testing at Dugway was led by lead test officer Mike Capp, and included a

clear Defense (JPEO-CBRND).

"You have all done an outstanding job," said Greg Gastan, Deputy Joint Project Manager, Joint Program Executive Office for Chemical, Biological, Radiological,

and Nuclear Defense (JPEO-CBRND). "We appreciate everything you have done, and we could not have done it without



From left: Greg Gastan, JPEO-CBRND, thanks lead test officer Mike Capp for his hard work, dedication and leadership to successfully plan for and execute testing of the SOM at Dugway Proving Ground.

team of test operators, surveyors, meteorologists, data collectors, photographers, cloud characterization experts, and more.

"While I am the lead test officer for smoke testing, I did not—and could not—have accomplished

you."

The SOM will undergo additional reliability and maintainability (RAM) testing at Dugway later this summer, as well as extreme environment testing using Dugway's chamber facilities.

Visit the NEWS section of Dugway's website to learn about:

- A new communications system recently tested at DPG
- What BG William Boruff, commanding general, MICC, thinks about DPG
- Why RIAC is creating a new flight crew

www.army.dugway.mil

# GPS trackers...

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A fledgling golden eagle is back in its nest, with a GPS tracker on its back and a tracking band on its leg. The GPS will transmit from three to five years, its signals picked up by satellite. Photo by Robbie Knight

knowledge of a nest's status increases the number of testing days while minimizing potential conflicts.

If golden eagles occupy a nest, and are

big enough for harnessing, wildlife biologists and highly trained members of a private raptor conservation group – Hawk-watch International – hike, climb or rappel



Matt Pantone, sUAS Pilot in Command (left) and Aaron Bronson, sUAS operator, Select Engineering Services, trained wildlife biologists to use this Matrice 600 Pro remote control hexacopter. A tablet displays its video in real-time. Photo by Al Vogel, Dugway Proving Ground Public Affairs

to the nest. Fledging eagles are stabilized, carried down to waiting ground staff who assess the fledgling's health and attach the GPS tracker. It's quickly returned to its nest.

Close coordination with the USFWS was established for approval and needed permits. The GPS tracker will transmit up to

five years; its signal picked up by satellite.

“Over the years, this data has been used to facilitate coordination between the state of Utah, USFWS and test officers in support of testing and training events,” Knight said.

## Police, Security labor union contract approved



By Al Vogel  
albert.c.vogel.civ@mail.mil

After months of negotiating and rewriting, police and security government employees have signed a new union contract, replacing one used for 29 years.

The 20-page contract between Dugway Proving Ground and American Federation of Government Employees, Local 2185, replaces a 51-page contract signed in 1990.

The new contract affects approximately 75 Surety Security, Main Gate Security and Law Enforcement personnel on DPG.

Normally, labor contracts are revised every three to five years, according to Shane Owen, lead Security officer and president of Local 2185, but the vintage contract was unusual. “It’s old enough to drink and vote,” Owen said, chuckling.

The new contract has 30 fewer pages because it references regulations and sources but does not include them. Unlike

in 1990, the reader is expected to find details on the web. A web link to the new contract will be sent out by email to bargaining unit employees, said Owen.

Creators and signers of the new contract were Local 2185 President Owen, Vincent Liddiard, executive officer and chief negotiator for DPG; Allan Achen, Security Branch Chief; Col. Brant Hoskins, commander of DPG; J.R. Wilder representing the garrison's Department of Emergency Services; and Aaron Goodman, garrison manager.

The biggest obstacle in creating the new contract was evaluating and transitioning 1990's language and technology into 2019, Owen noted. Also, some laws had changed over the decades.

“Some 1990 language was obsolete or changed into a Standard Operating Procedure, to make it easier to change it later,” Owen said. “The new contract shows that the agency and the union can work together to reach agreeable resolutions.”

## Change of Command at USAF Detachment 1



Col. Brant Hoskins, commander of U.S. Army Dugway Proving Ground, presents Air Force Lt. Col. Gary Bishop with a plaque as a farewell gift. Lt. Col. Bishop, his two-year tour of duty up, relinquished his command in a June 20, 2019 ceremony to incoming Lt. Col. Darnell Roper. Air Force photo by William Lindsey.



Chris Robinson, range director of the Air Force's Utah Test and Training Range, presents the guidon to Air Force Lt. Col. Darnell Roper during the Detachment 1 change of command. Air Force photo by William Lindsey



Lt. Col. Darnell Roper, after becoming commander of Air Force Detachment 1 at U.S. Army Dugway Proving Ground, Utah. The detachment, headquartered at Hill Air Force Base in Ogden, is responsible for maintaining the Utah Test and Training Range. Air Force photo by William Lindsey

# INDEPENDENCE DAY AT DUGWAY



## THE DISPATCH

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News, information or comment may be submitted to:

The Editor, Dispatch, Dugway Proving Ground  
 TEDT-DP-PA MS#2  
 5450 Doolittle Ave.  
 Dugway, UT 84022-5022  
 Phone: (435) 831-3409 DSN 789-3409  
 Email to: usarmy.dpg.attec.mbx.pao@mail.mil



Commander: COL Brant D. Hoskins  
 Chief, PAO/Editor: Becki Bryant  
 Public Affairs Specialist: Al Vogel  
 Layout & Graphics: Robert Rampton  
 Video & Web: Darrell Gray

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# Security Shorts

OPSEC is a process of identifying critical information and analyzing friendly actions attendant to military operations and other activities. OPSEC protects sensitive and/or critical information from adversary observation and collection in ways that traditional security programs cannot protect the information. OPSEC is about protecting critical information from adversaries in ways that security programs such as information security and physical security cannot protect. OPSEC is a program that manages risk.

We cannot possibly classify everything that is sensitive national defense information. We can all do our part to protect the mission by safeguarding **Dugway's critical information**. Critical Information: (formerly known as "Essential Elements of Friendly Information") Questions that the adversary is likely to ask about friendly capabilities, activities, limitations, vulnerabilities and intentions.

The deployed unit 'outed' by a girlfriend was delayed leaving by six weeks due to an OPSEC violation.

Who knows the information on our critical information list? I knew you would ask.

- 1) Controlled unclassified, classified or caveated information related to programs or activities in the WDTG.
- 2) Privacy Act, Personal Identifying Information, or information found in personnel files that could be exploited.
- 3) Emerging technologies applicable to new weapons of mass destruction.
- 4) Planned or actual movement of sensitive items through DPG facilities, such as chemical or biological surety material, special access program material, and high technology and communications equipment.

- 5) Information related to security processes, tactics or procedures that could provide the means to circumvent those processes, tactics or procedures.
- 6) Vulnerabilities of tested equipment.
- 7) Measures taken to prevent unauthorized access to automated information systems.
- 8) **DPG's security vulnerabilities** to an outside attack or capabilities to thwart an attack.
- 9) Identification, to include images, of deployable civilian and contractor personnel.

What can you do to help protect our critical information?

- Make maximum use of secure communications
- Use encryption when sending critical information on unclassified networks
- Use discretion in composing email as well as the recipient
- Shred or burn all paper – "No paper in the trash" and shred as you go
- Put away your access badges when leaving the office; no displaying them off post
- Do not talk or post on social media about operations or critical information
- Do not post critical, sensitive information or operations on social media!
- Refer questions about ongoing operations, tests or any other questions to the Public Affairs Office
- REPORT violations to your Security office.

Thank you Team Dugway for all you do to protect our operations.



Currently playing on the Dugway YouTube Channel

- **Organizational Day**
- **Spring Marmot Exercise 2019**
- **DPG Awards Ceremony**
- **Eagle Surveillance Tech**
- **Women's History Month**

www.youtube.com/channel/UCPjFIEBY7j7ay6m7FouadqQ