Mission & Capabilities Overview
May 2019
Agenda and Purpose

• Mission and Vision
• Organization
• Quality of Life
• Location
• Test Center Capabilities
• Recent & Future Activities
• Discussion and Questions

Purpose: Provide an overview of Dugway Proving Ground’s mission and capabilities.
DPG Mission

U.S. Army Dugway Proving Ground executes efficient testing and support to enable our nation's defenders to counter chemical, biological, radiological, and explosives (CBRE) hazards.
DPG – 2040 Vision

Purpose: Posture DPG to fulfill mission requirements in the year 2040 and beyond

Key Aspects:

• Threat Informed and Customer Based – Adversaries continue to develop new and more dangerous technologies; DPG develops test and evaluation capabilities to stay ahead of threats and meet customer requirements

• Mission and Readiness Focused – Enhances readiness by providing top quality and timely testing and world-class training capabilities

• Sustainable – Enterprise must be able to sustain capabilities over time

• Adaptive and Expert Workforce – Develops the workforce to assume new and/or modified roles and responsibilities

• Holistic – Addresses mission and mission support capabilities

Endstate: DPG postured with the facilities, workforce, mission and mission support facilities to meet customer requirements and enhance warfighter readiness
BLUF: Test Tube to Battlefield

Dugway Proving Ground is the nation’s designated Major Range and Test Facility Base for Chemical and Biological Defense (C/B) Testing and Countering Weapons of Mass Destruction (CWMD) Support
Command Structure

Chemical Test
Special Programs
Test Support
Data Sciences
Operations

BioTesting Division

U.S. Army
Dugway Proving Ground

Chemical Test
Special Programs
Test Support
Data Sciences
Operations

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Dugway Proving Ground Organization

West Desert Test Center
- Operations, Logistics, Surety Security
- Chemical Test
- Special Programs
- Test Support
- Data Sciences
- BioTesting Division

Key
- ORGANIC
- SUPPORT RELATIONSHIP
- MISSION
- INSTALLATION

U.S. Army Garrison, Dugway
- Public Works
- Plans, Training, Mobilization, and Security
- Family, Morale, Welfare, and Recreation
- Emergency Services
- Human Resources
- Program Analysis
- Resources Management
- Internal Review
- Chaplain
- Equal Employment Opportunity

Team Dugway – working together to execute the mission and care for people

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## Workforce & Direct Economic Impact

Dugway Proving Ground supported nearly 2,500 jobs and $225 M in GDP for Utah

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jobs</td>
<td>2,479</td>
</tr>
<tr>
<td>Earnings (M)</td>
<td>$175.9</td>
</tr>
<tr>
<td>Gross Domestic Product (M)</td>
<td>$225.0</td>
</tr>
</tbody>
</table>

Dugway Proving Ground supported nearly 2,500 jobs and $225 M in GDP for Utah

### Workforce Composition

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Military/DA Civilians</td>
<td>486</td>
</tr>
<tr>
<td>DoD Tenants</td>
<td>622</td>
</tr>
<tr>
<td>Other Tenants</td>
<td>784</td>
</tr>
<tr>
<td>Total Employees and Residents</td>
<td>2120</td>
</tr>
<tr>
<td>Transients/Customers</td>
<td>50-1500</td>
</tr>
</tbody>
</table>

**Source:** Kem C. Gardner Policy Institute analysis using the REMI PI+ model

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**Abbreviations:**
- ATEC – Army Test & Evaluation Command
- IMCOM – Installation Management Command
- MICC – Mission & Installation Contracting Command
- MEDCOM – Medical Command
- NEC – Network Enterprise Center
- RIAC – Reception Integration Acceptance Center
- UTTR – Utah Test and Training Range
- TMDE – Test, Measurement & Diagnostic Equip.
- BTD – BioTesting Division
- CPAC – Civilian Personnel Advisory Center
- LRC – Logistics Readiness Center
- AAFES – Army/Air Force Exchange Service
- IHG – InterContinental Hotels Group
- USPS – U.S. Postal Service
- CU – Credit Union

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Remote and Isolated

**Dugway Details:**
- Located in Utah’s remote West Desert
- 38 miles from closest major city
- Surrounded on three sides by more than 200,000 acres of desert terrain and 59,000 acres of mountains ranges
- Rural, ranch land with free range cattle
- Average commute time is 1-2 hours, one way

**Quality of Life Issues:**
- Contractors child care rates triple this year
- Loss of services and facilities (bowling alley, rock and woodshop, auto craft shop)
- Annual 8-12 percent housing rent increase

**Workforce Impacts:**
- Cascading negative effects from reductions in services
- Low motivation to live at Dugway
- Families will move due to continued rent and service cost increases
Installation – English Village

- On-Post Housing for Families and Individuals
- Visitor Lodging at Desert Lodge
- Occupational Health Clinic
- Commissary, Gas Station and Shoppette
- School: Elementary - High School (K-12)
- Comprehensive Family and MWR Programs
  - Army Community Service (ACS)
  - Business and Recreation
  - Child and Youth Services (CYS)
Installation – Army Community Service & Child and Youth Services

- Diverse array of family services
- Life skills classes
- Financial readiness
- Employment readiness
- SARC/SHARP

- Quality child care for all ages
- Child Development Center
- School Age and Youth Center
- School Liaison Officer

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Installation – Recreation & More

- Fitness Center
- Sports and fitness programs
- Outdoor swimming pool
- Community Club & Ditto Diner
- Library

- Outdoor Recreation
- RV Park and RV Storage Lot
- Leisure Travel
- Community Special Events
Location & Airspace

**Dugway is Remote:**
- Free from urban encroachment
- Acoustically & electronically quiet
- Salt flats extending 90 miles north
- Light pollution-free
- Surrounded on three sides by mountains and desert terrain

**Dugway is Accessible:**
- 78 miles from Salt Lake International Airport (I-80)
- 38 miles from Tooele
- 82 miles from Provo

<table>
<thead>
<tr>
<th>Location &amp; Airspace</th>
<th>Total Area</th>
<th>Mountain Terrain</th>
<th>Mixed Desert Terrain</th>
<th>Playa (flats)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Area</strong></td>
<td>1,252 miles²</td>
<td>59,078 acres</td>
<td>279,768 acres</td>
<td>462,180 acres</td>
</tr>
<tr>
<td><strong>Restricted Airspace</strong></td>
<td>7,954 miles²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Military Operations Area</strong></td>
<td>10,004 miles²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOD Exclusive-use Land</strong></td>
<td>3,078 miles²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Government-owned Land</strong></td>
<td>16,686 miles²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Airspace Footprint</strong></td>
<td>16,797 miles²</td>
<td></td>
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</tr>
</tbody>
</table>

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Test ranges for all classes and sizes of chemical, biological, explosives and elite forces testing and training

GWOT – Global War on Terrorism

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Michael Army Airfield (MAAF)

- Emergency landing site for distressed aircraft
- Aircraft decon pad
- 20,000 ft² hangar
- New 5,600 ft² hangar
- 495,000 ft² apron space

Operational Use:
- Unmanned Aircraft Systems testing
- Shipment of surety materials
- C/B decontamination of aircraft
- Tactical air operations
- Air re-supply and logistics
- USAF emergency airfield
- Contingency Power Projection Platform for Tooele Army Depot (TEAD)

Fully lighted 11,000-ft runway capable of handling any aircraft in DOD inventory
Unmanned Aircraft Systems (UAS)

Onsite airfield facilitates UAS testing programs

- Rapid Integration and Acceptance Center for PM-UAS
  - Hunter
  - Shadow
  - Warrior
  - Gray Eagle
- Adjustable IR, Laser and EO targets
- High-speed optical data imaging
- Cloud characterization for C/B disseminations
- Hellfire range support
- Fabrication shops

PM-UAS – Program Manager Unmanned Aircraft System
IR – Infrared
EO – Electro-optical

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CWMD Non-Materiel Evaluation and Support

Providing expertise and locations to evaluate procedures and equipment in realistic operational environments that is informed by test expertise

- Evaluate equipment effectiveness in new operational scenarios with similar rigor to materiel testing
- Support addressing the full range of countering WMD tasks and requirements – from prevent use or proliferation through managing the consequences of employment
- Deliver graduate level, hands-on training with real agents and simulants in threat-representative scenarios
  - Focus on chemical and biological detection, signature recognition and sampling
  - Enhance readiness to respond to domestic chemical or biological terrorist attack
- Provide realistic, practical exercises to test tactical skills in the detection, forensic sampling, and packaging of chemical/biological agents
Recent Accomplishments

Jackrabbit - Large-scale outdoor Toxic Industrial Chemical releases
(10 to 20 tons)

• Capstone event of a multi-year effort (DTRA, DHS)
• Multiple government, academic & international participants
• Meteorological forecasting and modeling of conditions and dispersion characteristics prior to and during test events

• SK Challenge Field-test Week, 2018
• New Solar Field – 2 MW
• Iron Warrior, Derailed
• INTACT
• Air Force WSEP

SK – Sophos Kydomeos
DTRA – Defense Threat Reduction Agency
DHS – Department of Homeland Security
CALDERA – Crater Algorithm Designed for Explosive chaRge Analysis
WSEP – Weapon System Evaluation Program

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The Future

**Test Capabilities Improvements**

- Nontraditional Agents (NTAs)
- Modular test capabilities
- Replacement of air-handling for chemical laboratories

**Infrastructure Improvements**

- DPG 2040 planning ongoing
- Wireless Test Grid
- Additional 2 MW Solar Field

**Test and Training Events**

- The International Novel Threat Agent Characterization Trials (INTACT)
- Dugway Pole Test
- Son of Vulcan
- Cryogenic Oxygen Methane Explosion Test (COMET)
- S/K Challenge

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Discussion and Questions

DPG – Viable today and preparing for tomorrow

- Supporting the Soldier
- Vast remote areas for testing and training
- Expert, Army Acquisition-certified work force
- Infrastructure in place with state-of-the-art equipment
- Environmental permits
- On-site airfield
- Quality of life
- Positioned for future growth
- Supporting DOD transformation

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TEAM DUGWAY –
Empowering the Nation’s Defenders

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Dugway Proving Ground (Official) Facebook page:
www.facebook.com/USArmyDPG

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Back Up
Major Range and Test Facility Base (MRTFB)

“The DA MRTFB is an aggregation of T&E activities…designed to provide support capabilities based on DOD component requirements without unnecessary duplication. DA MRTFB activities are available to all users with valid hardware testing and test support requirements.”

-Army Reg. 70-69, 1-6, a

“Capabilities….shall not be unnecessarily duplicated.”

-DoDD 3200.11

Public Law 103-160, 30 Nov. 93: Directed consolidation of all CBDP funding; DPG MRTFB operating costs became responsibility of CBDP. Sec. Def. designated Army as Executive Agent to coordinate and integrate chemical/biological defense RDT&E
DoD MRTFB Locations

DPG is the Nation’s designated MRTFB for Chemical and Biological Defense Testing and Training
Combined Chemical Test Facility (CCTF)

Capabilities
- 35,000 ft² of multifunctional laboratories
- 47 agent-certified fume hoods in 27 surety-capable test suites
- Supports chamber and field testing of chem-bio defense systems
- Aerosol, vapor, and droplet testing with CWA, TIC/TIM, & emerging threats
- Developmental and operational testing

Chemical agent & simulant testing

Agents
- G Agents
- VX
- H-Series
- Lewisite
- Emerging threats

Simulants
- Army licensed simulants
Materiel Test Facility (MTF)

DOD’s largest CWA-certified test chamber

- Stainless steel multi-purpose test chamber (30’x50’x50’)
  - Temperature: -40° to 60° C
  - Humidity: 10 to 90%
  - Rated for bio agent testing up to BSL-2
- Two (30’x25’x25) environmentally-controlled stainless steel test chambers
- Chemical vapors & aerosols
- Use full range of chemical agents and C/B simulants

Operational Use

- Operationally relevant developmental and operational testing of C/B defense equipment
- Perform real decontamination operations
- Full-scale testing of large military hardware
Mustang Village – Wig Mountain Complex

Realistic Surroundings For Realistic Scenarios

- Offers a unique urban field setting
- Units conduct strategic planning, training and field exercise scenarios
- Validation of tactics, techniques, and procedures
- Consists of structures representing a hotel, post, office, warehouse, strip mall and office building.
- Uses simulants to represent chemical and biological threats
- Provides realistic environment for detection, assessment and mitigation scenarios
- Used by DoD, DHS, Special Operations Forces, National Guard Civil Support Teams, and emergency first responders from around the country
BioTesting Division (BTD)

Certified to test with aerosolized biosafety level 3 (BSL-3) agents

Capabilities
- 32,000 ft² of multifunctional biological laboratories
- Biosurveillance testing
- Six BSL-3 containment suites
- Aerosol testing with pathogens, toxins and simulants

Test Agents & Simulants

Agents
- Up to BSL-3
  - Bacteria
  - Viruses
  - Toxins

Simulants
- 8 licensed simulants
- Agent-like Organisms (ALOs)

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