Naval Air Station Fallon Update

Rob Rule
Community Plans and Liaison Officer
Naval Air Station Fallon

“Nevada’s Carrier in the Desert”
Naval Air Station Fallon and Fallon Range Training Complex
Naval Air Station Fallon

- **Aviation Integrated Training**
  - Air Wing
  - Strike Fighter Advanced Readiness Program

- **Aviation Graduate Level Schools**
  - Navy Fighter Weapons School (TOPGUN)
  - Naval Strike Warfare Center (Strike University)
  - Carrier Airborne Early Warning Weapons School
  - Rotary Wing Weapons School
  - Electronic Reconnaissance Weapons School
  - Joint Close Air Support School
  - Naval Special Warfare Tactical Mobility Course
  - Growler Weapons School
  - Tomahawk Land Attack Missile Cell

- **Special Warfare**
  - Tactical Ground Mobility
  - Close Air Support
  - Sniper Sustainment

"Nevada’s Carrier in the Desert"
Fallon Range Training Complex

“Nevada’s Carrier in the Desert”
Fallon Summary

- Home to the Naval Aviation Center of Excellence for tactical, pre-deployment combat training
- Training 100% of carrier-based Naval Aviation Strike Warfare units
- Training 100% of Naval Special Warfare TGM units
- Not easily or affordably replicated anywhere else in the United States or Overseas
- Critical contribution to the Department of Defense as a Joint National Training Capability certified site

“Nevada’s Carrier in the Desert”
Fallon Range
Training Complex
Modernization
Weapons Technology Evolution

- Cumulative advances in weapons technology in response to threat
  - Fallon Ranges designed for older dumb bombs
  - Newer weapons classes incorporate “Smart Bomb” technologies for release at longer and higher ranges to improve aircraft survivability

Modern aircraft release weapons from 10-15 miles & upwards of 30,000 feet

Older aircraft released weapons from 1-2 miles are inside enemy threat systems

Target & Threat Area

Weapon flight path

“Nevada’s Carrier in the Desert”
Full Requirement

"Nevada’s Carrier in the Desert"
**NAWDC Weapons Analysis**

<table>
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<tr>
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<th>Altitude MSL</th>
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<th>Release Range NM</th>
<th>Dive Angle</th>
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**NAWDC SME TTP Weapons Requirements**

NAWDC reduced “Tactically Acceptable” Requirements
Tactically Acceptable Requirement

"Nevada’s Carrier in the Desert"
SEAL Tactical Ground Mobility (TGM)

- SEAL Tactical Requirements
  - 360° field of fire for 7.62 mm
  - 180° field of fire for .50 caliber
  - Off-road driving in mountainous terrain
  - Immediate Action Drills
  - Close Air Support Integration
  - Complex Urban Scenarios

“Nevada’s Carrier in the Desert”
Overview of Modernization

FRTC Modernization Land Summary

<table>
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<th>Range</th>
<th>Current Acres</th>
<th>Proposed Additional Acres</th>
<th>Total Proposed Acres</th>
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<tr>
<td>B-20</td>
<td>41k</td>
<td>180k</td>
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<tr>
<td>Dixie Valley</td>
<td>78k</td>
<td>246k</td>
<td>324k</td>
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<tr>
<td>Totals</td>
<td>228k</td>
<td>682k</td>
<td>901k</td>
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“Nevada’s Carrier in the Desert”
Training Ranges
B-16

- Primarily supports Naval Special Warfare (SEAL) Tactical Ground Mobility (TGM) Course
  - Training requirement for 360° field of fire for small arms up to and including 7.62mm and 40mm
  - Training requirement for 180° field of fire for .50cal

- **Additional SEAL Requirements**
  - Threat representative 360° field of fire attack axis for threat realistic training
  - Multiple training areas with threat & target complexity & redundancy
  - Open area to maneuver convoy escort vehicles in varying terrain conditions
  - Close Air Support Integration
  - Range active 280 days annually

- **Continued support to Naval Aviation**
  - Basic level (inert only) air-to-surface training for tactical aviation
  - Naval Helicopter gunnery

“Nevada’s Carrier in the Desert”
B-20

- 1 of 2 primary Large Force Exercise ranges
- Live ordnance capability
- Supports all facets of Naval Aviation training continuum
  - Basic, Intermediate, Advanced Phases
- Requirements
  - Provide increased weapons release profiles for more realistic execution of combat TTPs
  - Provide threat scenario complexity with multiple targets and target arrays

“Nevada’s Carrier in the Desert”
B-17

- FRTC’s premier range due to diverse terrain and geography
- 1 of 2 primary Large Force Exercise ranges
- Live ordnance capability
- Supports all facets of Naval Aviation training continuum
  - Basic, Intermediate, Advanced Phases
- Requirements
  - Provide increased weapons release profiles for more realistic execution of combat TTPs
  - Provide threat scenario complexity with multiple targets and target arrays
  - Range active 280 days annually

“Nevada’s Carrier in the Desert”
Dixie Valley Training Area (DVTA)

- Requirements
  - Dedicated training
    ‘Sanctuary’ for critical, non-hazardous (no ordnance) mission activities:
      - Combat Search & Rescue
      - Convoy Escort / Dynamic Targeting
      - Helicopter Mountain Flying
      - SOF Infiltration and Exfiltration
  - Integrated air and ground events at low altitudes
  - Electronic Warfare in mountainous terrain
  - Special Land Management Overlay south of Highway 50 notifies NASF of projects in the area and BLM will need to obtain approval of broadcast and receiving equipment
Dixie Valley NVD Training

- 30% of missions performed at night and on Night Vision Devices (NVD)
- Pristine night environment, free from cultural lighting effects, essential for safe NVD employment
- Cultural lighting effects would be an impediment to flight safety and training realism if introduced into Dixie Valley

“Nevada’s Carrier in the Desert”
Hunting Program

- Commitment for 15 day access during hunting season annually
- Annual Working Group/Plan commitment
- MOA between the Navy and NDOW to govern access for hunting program
- Notice to NDOW and hunters mid summer for hunt access dates
- Allow for future hunting program flexibility or growth of hunting program on FRTC
- NDOW access for wildlife monitoring and management
- Access for maintenance and construction of water infrastructure

Way Forward -
- Working toward camping on B-17 range during bighorn hunt
- Working toward simplified range check-in/check-out process
- Working towards integrating technology (Spot/GPS)
Wildfire Management

- Coordination with BLM and Nevada state agencies
- Contract for a Wildfire Management Plan was awarded this year (FY19) for the current ranges
- Funding has been made available for FY22 for Wildfire Management Plan for modernized ranges
- The plan provide comprehensive coverage for:
  - Multi agency coordination
  - Fire prevention
  - Fire suppression activities
  - Rehabilitation and recovery

“Nevada’s Carrier in the Desert”
REPI Program
Fallon Range
Training Complex
Fallon Range Training Complex

FRTC
- Roughly 12,000 square nautical miles of airspace
- Land area of installation and ranges is 232,000 acres
- FRTC Airspace overlays:
  - 9 Nevada counties
  - 4 BLM Districts
  - USFS State and District Offices
  - USFWS State Office and Refuge Region
  - BOR State Office
  - 6 State Conservation Districts
  - 7 Federally recognized Tribes

“Nevada’s Carrier in the Desert”
Ranches in Nevada depend on public lands which provides both valuable resources to GRSG and training opportunities to the military not found in any other part of the country.

Conservation easements on rural ranchland allow preservation of unfragmented prime (Priority and General) habitat while bolstering long-term economics of ranching and farming.

First easement completed in 2016 for Smith Creek Ranch in the Desatoya Range.
REPI Partners

- Natural Resources Conservation Service Nevada
- Nevada Department of Wildlife
- The Nature Conservancy
- State of Nevada Conservation Districts Program
- Naval Air Station Fallon
- Bureau of Land Management
- U.S. Forest Service
- U.S. Fish and Wildlife Service Nevada
- Sage Grouse Initiative
- Great Basin Landscape Conservation Cooperative

“Nevada’s Carrier in the Desert”
Purpose and Objectives

- Conservation easements
  - Purchase development rights
  - Strengthen working lands
- Restoration Projects
  - Pinion Juniper removal
  - Spring improvement
  - Noxious weed abatement
- Research and Monitoring
  - Project evaluation
  - Long term strategy
“Today’s decision reflects the joint efforts by countless ranchers and partners who have worked so hard to conserve wildlife habitat and preserve the Western way of life, together we have shown that voluntary efforts joining the resources of private landowners, federal and state agencies, and partner organizations can help drive landscape-level conservation that is good for sage-grouse, ranching operations, and rural communities. Through the comprehensive initiatives on both public and private lands, the partnership has made and will continue to make monumental strides in supporting the people and wildlife that depend on the sagebrush landscape.”

U.S. Agriculture Secretary Tom Vilsack
September 2015
FRTC REPI Program Overview

- REPI Challenge 2015 winner - $2.16M
- Additional FY19 request - $750k
- Request for FY20 - $200k
- Total REPI amount expended - $550k

- Prospective acquisitions -
  - Four ranches in Nevada are currently interested in easements and are being considered for inclusion in the program in the next 2 years
Sentinel Landscapes

- Sentinel Landscapes, anchored by a military installation(s) or range(s), are defined areas that represent overlapping priorities for military mission protection, working lands preservation, and natural resource conservation.

- Sentinel Landscape encourages participating partners to develop new technical and financial assistance options tailored for local needs.

- The basis of Sentinel Landscape agreement is an MOU signed by Department of Agriculture, Department of Interior, and the Department of Defense.

- Request for designation proposal is January 2019.
Questions?

“Nevada’s Carrier in the Desert”
Back-up Slides
Department of Defense and Readiness and Environmental Protection Integration (REPI)
REPI Locations

- Leveraged over $768 million in DoD funds with $715 million in partner funds to protect over 516,413 acres of land at 93 locations in 31 states across the country (as of end FY17)

- Facts and other accomplishments can be found in the 2018 REPI Report to Congress available at www.repi.mil

“Nevada’s Carrier in the Desert”
REPI Funding

REPI Cost-Share through FY 2017

- 48% REPI Expenditures through 2017
- 31% Combined Military Service Expenditures through 2017
- 21% Partner Expenditures through 2017

REPI PROJECTS* IN NEVADA
Funding Summary (through FY 2016)

- REPI Expenditures: $11,724,541
- Military Service Expenditures: $1,840,687
- Partner Expenditures: $4,768,723
- Total Expenditures: $18,333,951

Department of Defense REPI Accomplishments for All Military Services

<table>
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<tr>
<th>(In Millions)</th>
<th>Transactions</th>
<th>Acres Protected</th>
<th>REPI</th>
<th>Service</th>
<th>Partner</th>
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<td>516,413</td>
<td>$451.77</td>
<td>$315.86</td>
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Information from 2017 Report to Congress and Nevada State fact Sheet

“Nevada’s Carrier in the Desert”
REPI Process for Funding

- OSP determines overall quality of Service portfolios and distributes funding for Service implementation
- Service HQs submit proposals to OSD for review, certification and/or evaluation
- OSD review, certify and evaluation proposals using criteria set in the Buffer Partnership Guide
- Installation prepares plans to address test and training needs through acquisition and submits REPI proposal to Service HQ
- Service HQs review/approve installation proposals and determine funding strategy
- Installation analyzes encroachment problems and solutions
- Partner(s) identifies areas of interest and develops relationship with landowners
Authority provided by Congress in Fiscal Year 2003 National Defense Authorization Act

Authorizes agreements to acquire:
- Real property interests or water rights
- For property in the vicinity of, or ecologically related to,
- A military installation, range or airspace

Two-pronged justification:
- Limit development or use of the property that is incompatible with the installation’s mission, and / or
- Preserve habitat to relieve current or anticipated environmental restrictions on military activities
Essential Elements of a REPI Partnership

- Willing seller (voluntary)
- Eligible entity- State or local government or private conservation organization
- Cost share for the partner’s acquisition of real property interests
- Must protect compatible land uses or preserve habitat
- Show clear link to mission benefit
REPI Program
Naval Air Station Fallon

“Nevada’s Carrier in the Desert”
Naval Air Station Fallon

“Nevada’s Carrier in the Desert”
Military and Agriculture

“Nevada’s Carrier in the Desert”
Military and Agriculture

“Nevada’s Carrier in the Desert”
Importance of REPI Program

- Military airfield negatively impacted by development while in a cooperative county
  - Nellis Air Force Base, Nevada
  - NAS Miramar, California
  - Luke Air Force Base, Arizona
  - NAS Oceana, Virginia
- Last new Naval air station constructed in 1961 (Lemoore)
Long Term Strategy

- Protect Military Readiness by preserving agriculture / open space lands within military operational areas
- Promote Compatible Land Use
  - Military flight operations / agriculture
  - Protect productive agricultural lands from commercial / residential / industrial development
  - Encourage residential / commercial / industrial development outside of the noise contours
- Minimize fee acquisition
  - Easements allow farmers and ranches to continue to manage the land for agriculture

“Nevada’s Carrier in the Desert”
"Nevada’s Carrier in the Desert"

**NASF REPI Program Overview**

**NASF REPI Basics**
- Main partner Churchill County (CC)
- Total acreage protected by easements – 7,548 AC
- Total cost paid to owners - $19.3M
- Goal for 2018-2019 - 1,800 AC
- Funding request in FY20 - $1.5M
- Current escrow - $3.5M
### NASF Annual REPI Funding

**REPI Funding per Year at Naval Air Station Fallon**

<table>
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<tr>
<th>Funding Year</th>
<th>Acres per Year</th>
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"Nevada’s Carrier in the Desert"