

98th Range Wing

Nevada Test & Training Range (NTTR) "The World's Premier Testing & Training Battlespace"



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Commander
98th Range Wing

This Briefing is:
UNCLASSIFIED



Overview

- NTTR Orientation
- Integrated Battlespace
 - Threats
 - Targets
 - Mission
 - Control
 - Assessment
 - Use of Public Lands
 - Cultural Resource Management
 - Natural Resource Management
- Summary



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EXHIBIT H-1 - LANDS
Document consists of 21 pages.
Entire Exhibit Provided
Meeting Date: 01-25-08



Battlespace for the Future Status



So goes the range, so goes Nellis

Battlespace

- Battlespace not a “place”
 - An environment w/ set of capabilities
 - CAF, MAF, Space, IO, SOF integration
 - Joint / Coalition Forces inclusion
 - Not targets and threats, but “problem sets”
- Execute via two contracts, \$80M+/yr
 - Technical – threat simulators; data links; real-time feedback
 - Operating Support – range cleans; target builds; Creech, Tonopah AFs

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98th Range Wing Mission



“Provide a relevant, instrumented, and integrated battlespace environment for the full spectrum of US Air Force Warfare Center missions.”

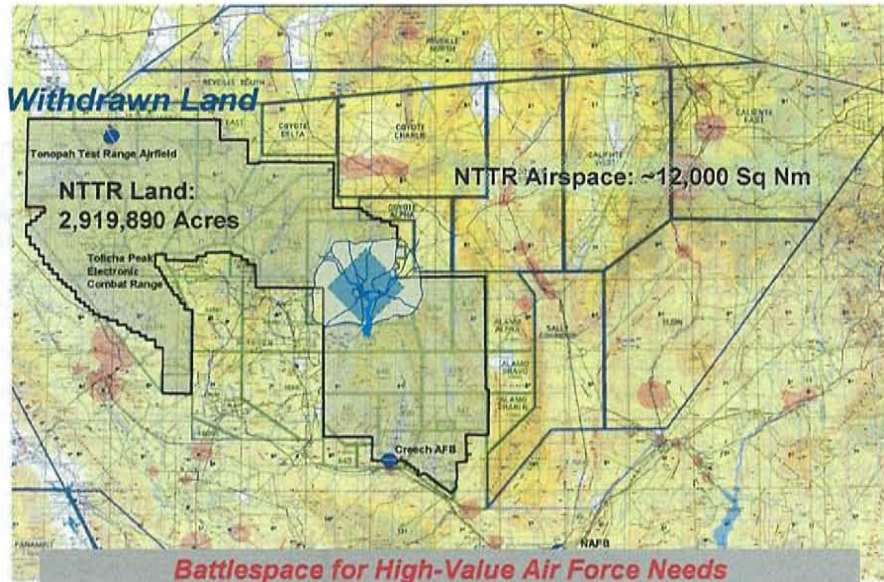


Capabilities Must Keep Pace with Warfighter Requirements

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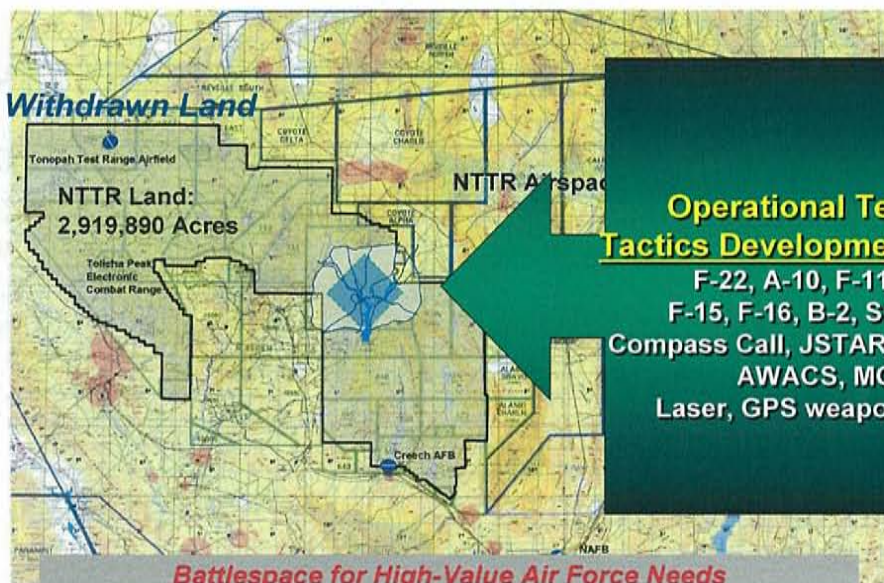
USAF's Premier Battlespace



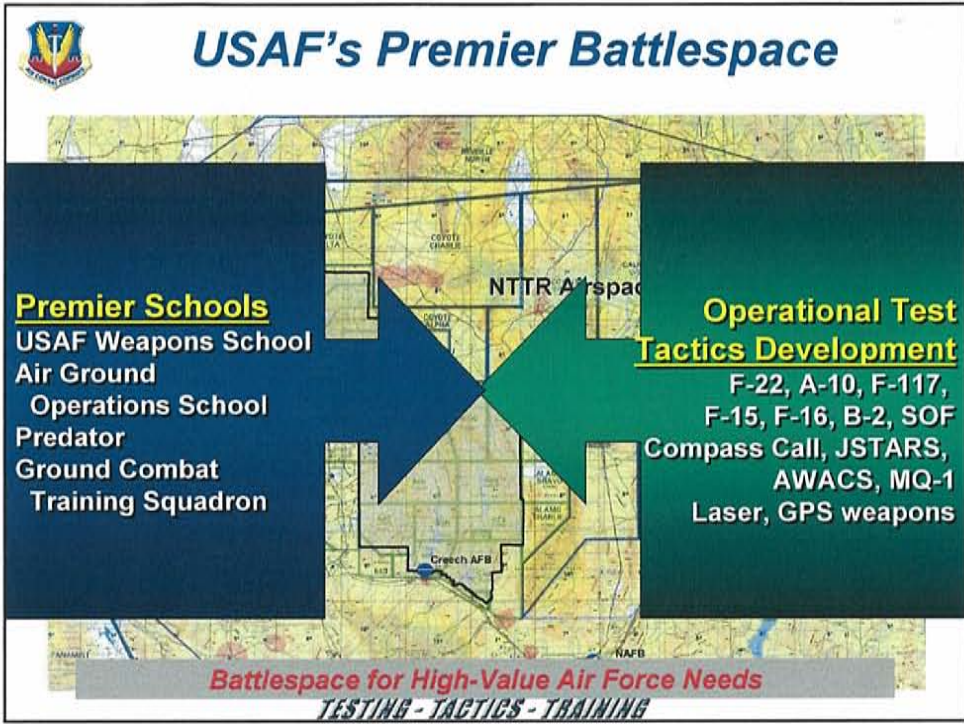
Battlespace for High-Value Air Force Needs
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USAF's Premier Battlespace



Battlespace for High-Value Air Force Needs
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USAF's Premier Battlespace



Threat Systems



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Threat Systems



T-13 SA-6 (3)



G-Band SA-2 Fansong (6)



JTE SA-2/3/6/13/AAA (1)



NEW UMTE SA-6/8/AAA (2)

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NTTR Targets



Fixed Targets

Mobile targets



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NTTR Targets



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NTTR Targets



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NTTR Targets



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NTTR Urban Target Complex



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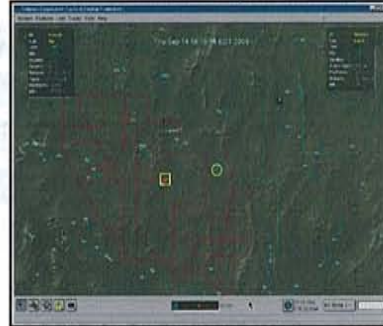


COMMAND AND CONTROL

- Red Simulated IADS (Ground Threats)
- Red & Blue Ground Controlled Intercept (GCI)
- White Force (Train / Test / Assess / Debrief)



COC Workstations
Blue Force Tracker



LINK 16 Architecture

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Assessment Tools

- NACTS
 - 100 Podded Players
 - 200 + IFF Participants
 - GPS-Based Tracking
- ICADS

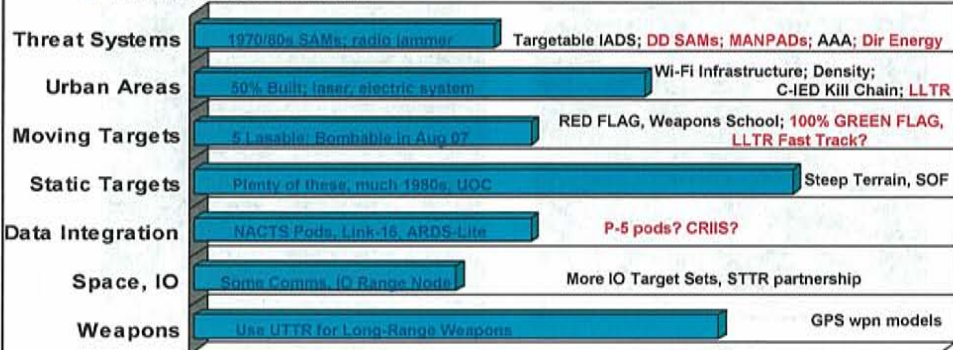


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Range Modernization

- No USAF modernization funds
- Upgrade funding = JNTC, GWOT, Inserts
 - Urban; moving targets; digital IADS
 - Joint problem sets for Airmen
- Making tradeoffs for highest ROI
 - Long War and Future War



Red: No action to date
Black: Working now, limited means

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Military Use of Public Lands

- Current Uses
 - Mobil Threat
 - Mobil No-Drop Targets
 - Communications ROW
 - Overland Navigation
 - Urban CAS
 - Rotary Wing Landings
 - Aircraft Crash/Dropped Object
 - Supersonic
 - Military Air Routes
- Future Issues
 - Rough Terrain driving
 - Patriot
 - Land Sales
 - Wilderness
 - RF Propagation

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Military Use of Public Lands Mobil Threats

T43 Mobile SA-6/8 Threat



Roland



VPQ-1 Mobile AAA Threat



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Military Use of Public Lands No-Drop Targets

Surface to Air launch site

Re-locatable no-drop targets



Lincoln County Airport No-Drop radar site



"Mobile Scud"

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Military Use of Public Lands Communications ROW



Irish



Cherry Stem



Highland



Pahrnagat



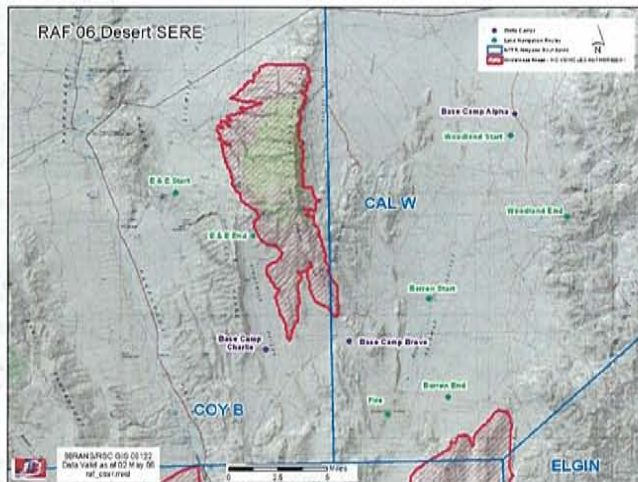
Mt Ella

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Military Use of Public Lands Overland Navigation

Royal Air Force
July 07
Aircrew Desert
Survival Training
-desert navigation
-mountain navigation



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Urban CAS



Mosul, Iraq

Caliente, NV



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Military Use of Public Lands Rotary and Fixed Wing Landings



Alamo, Delamar, Lincoln County

Various locations for crew change



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Military Use of Public Lands Crash/Dropped Objects



Delamar F-4



Death Valley F-4



Death Valley F-4

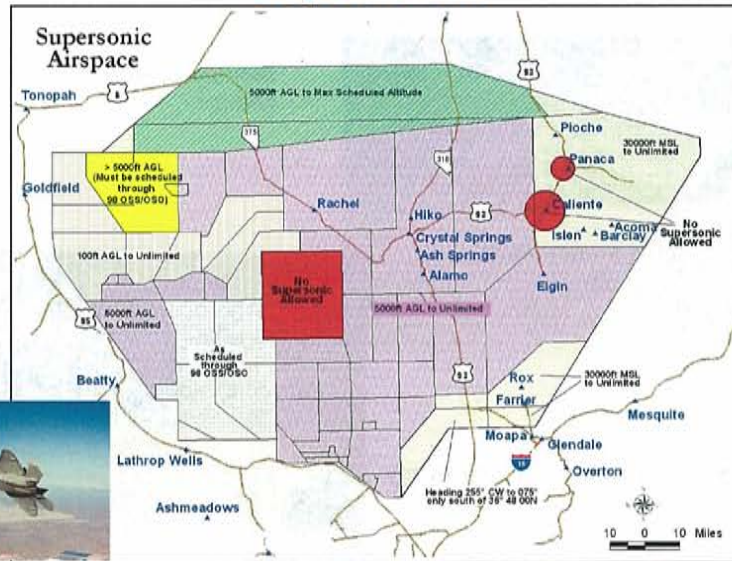


Cedar Pass G-130

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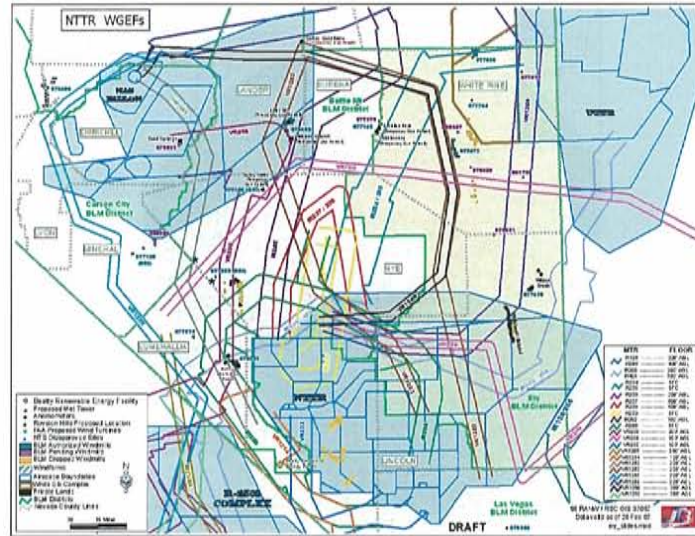
Military Use of Public Lands Supersonic



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Military Use of Public Lands Military Air Routes



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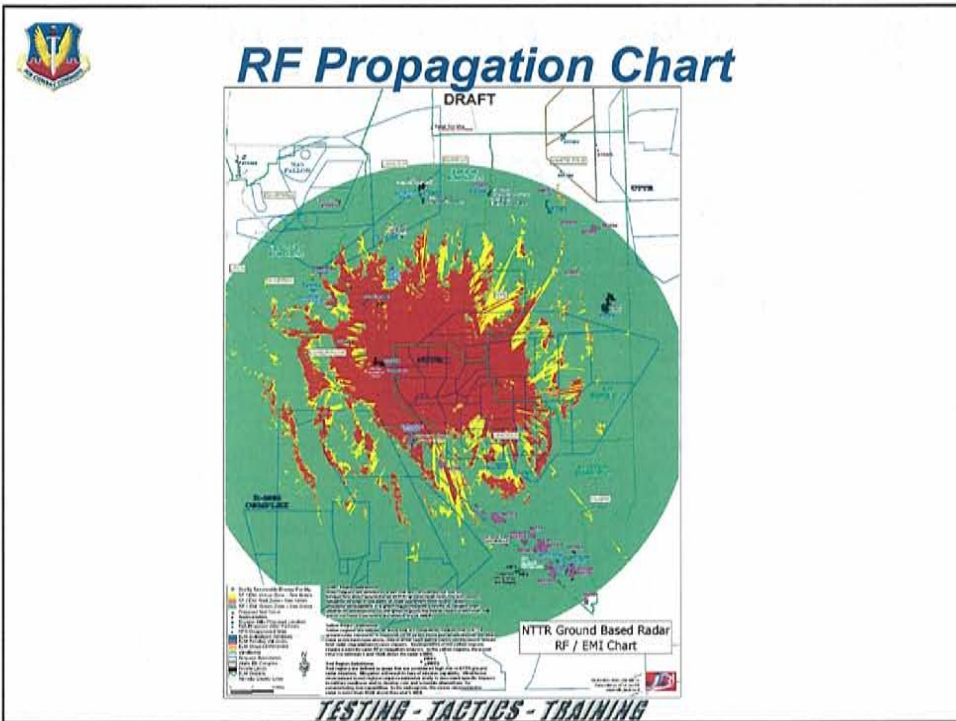
Military Use of Public Lands Future Issues

- Rough Terrain driving
- Patriot
- Land Sales
- Wilderness

Golf and Growth
Developer Harvey Whittemore's Coyote Springs project has advanced to include groundwork on its first golf course, designed by one of the sport's giants, Jack Nicklaus. The 42,000 thousand acres lies within the Coyote Springs Valley, which straddles the line dividing Clark and Lincoln counties.




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Nellis AFB Cultural Resources

- Compliance with federal laws
 - Ensure no significant sites are impacted
- Archaeological Research
 - 10 yrs of largest surveys in Great Basin
 - Sampling pristine mountain ranges
 - Black Mountain 2004-06
 - Major ceremonial zone
 - Intensive subsistence

Large metate





Basket preserved on-site

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Nellis AFB Cultural Resources

- Native American Program – 13th year
 - 17 tribes: S Paiute, W Shoshone, Mojave
 - Work on survey crews, write reports
 - U of Arizona: 150+ interviews



Shoshone man notes Pahute Mesa was his family's home



Shoshone father & son were present at the discovery of this major rock art site

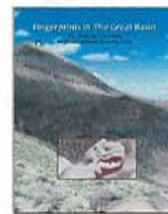


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Nellis AFB Cultural Resources

- Obsidian sourcing
 - Largest project in the world
 - Obsidian Butte a major source
- Geology
 - Dry lake analyses: 3 Pleistocene



Project size required helicopters



Geologist's concept of before and after

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Nellis AFB Cultural Resources

- Public Outreach

- Video documentaries
 - Cactus Range Depression miners
 - Native American pine nut harvest
- 6th year of Annual Calendars
 - Depicts landscapes of Nellis ranges



Jackie returns to the cabin from her childhood

First pine nut harvest on Nellis land in 65 years



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Nellis AFB Natural Resources

- Compliance with state and federal laws
 - Integrated Natural Resources Management Plan
 - Biological Opinions
 - Permits/Cooperative Agreements
 - BLM Resource Management Plan
 - USF&WS Comprehensive Conservation Plan



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Nellis AFB Natural Resources

- Ecosystem Management
 - Implementation
 - Natural resources baseline surveys
 - Migratory Birds
 - Seeps/Springs
 - Rare Plants
 - Species At Risk
 - Candidate Species
 - Desert Tortoise
 - GIS database development
 - Interagency data exchange



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Nellis AFB Natural Resources

- Interagency Projects and Cooperation
 - NDOW
 - Antelope Surveys
 - Bighorn Sheep Telemetry
 - Future Wildlife Water Developments
 - Wildlife Action Plan Data Collection
 - BLM
 - Wild Horse Census
 - Survey/Repair Horse Waters



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Nellis AFB Natural Resources

- **Interagency Projects and Cooperation**
 - USF&WS
 - Desert Tortoise Habitat Map
 - Wildlife Guzzler Aerial Survey and Repair
 - NDF
 - Las Vegas Bearpoppy Conditional Take Permit
 - Cooperative Agreement



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Summary

- **Supporting USAFWC, Air Force, Joint, Allied Missions**
 - Lean, Innovative, Motivated, "Unique" Team
- **Battlespace Capabilities -- Today**
 - Increased Demand for a more "Complex" Fight
- **Battlespace Capabilities -- Tomorrow**
 - Transforming to meet warfighter needs
 - Coherent Adversaries and "Ground Truth" Remain Critical

***Realistic Training Environment Is
Key Factor in Success and Survivability!***

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