



Military and Veterans Affairs Legislative Committee



This Briefing is:
Unclassified



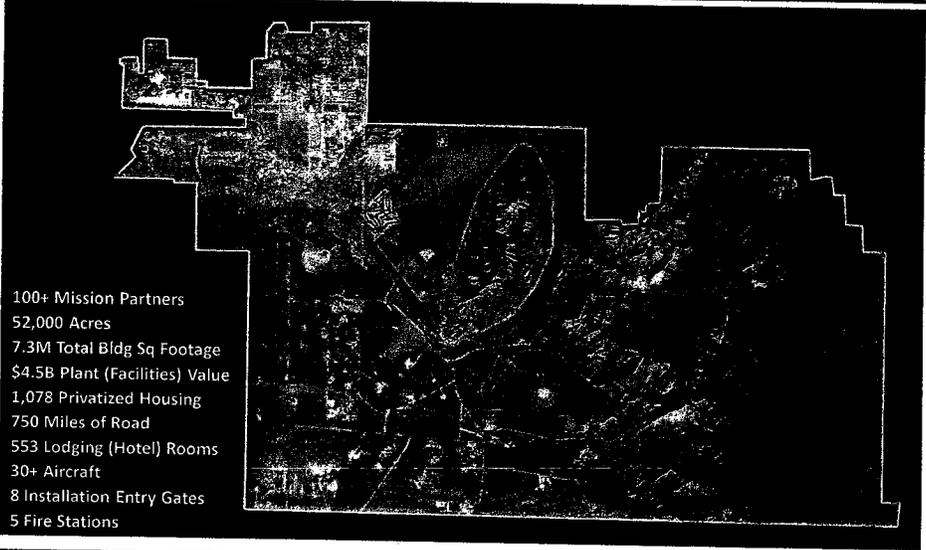
Overview



- Kirtland by the Numbers
- Mission Summary
- Economic Impact
- Education
- Energy
- Environment
- Q & A

Tiger Heritage – Aggressive Spirit

 **Kirtland By The Numbers** 



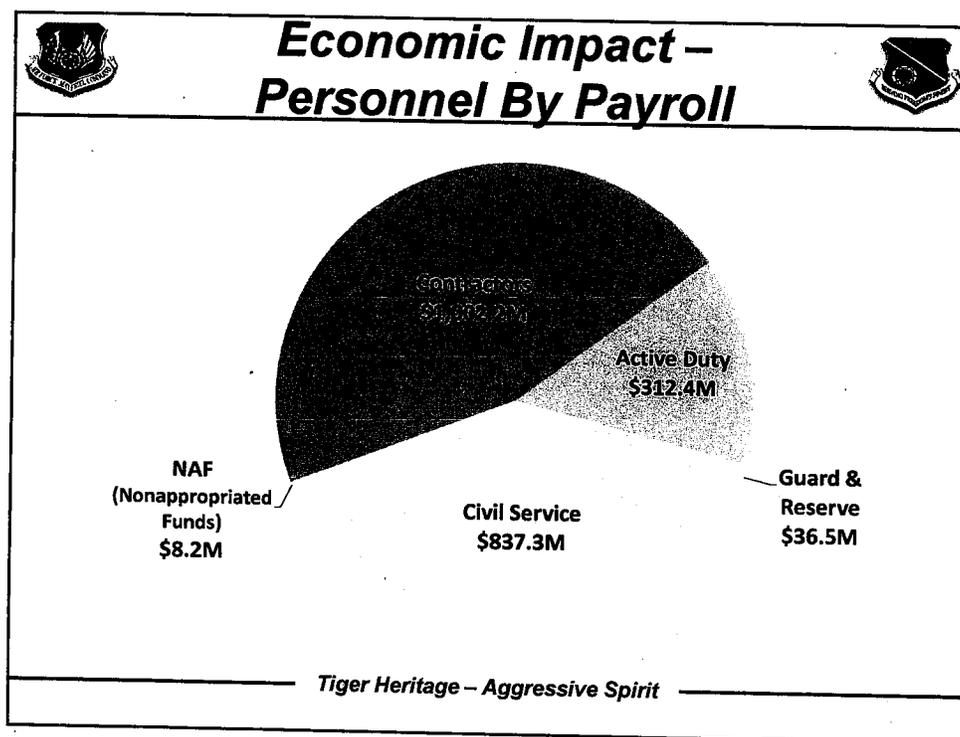
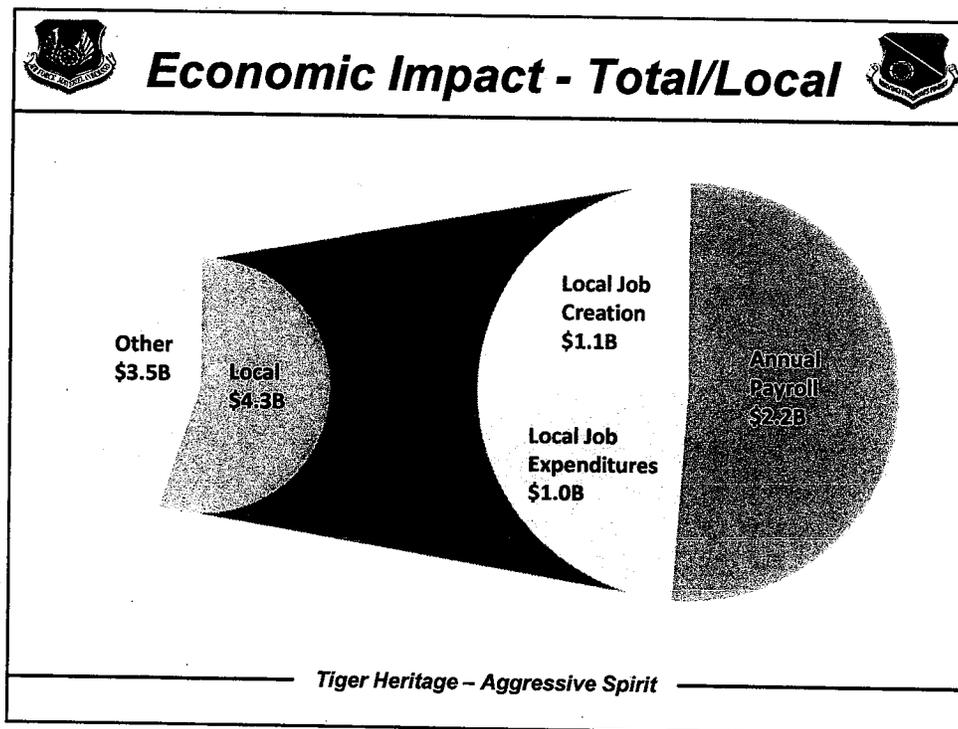
- 100+ Mission Partners
- 52,000 Acres
- 7.3M Total Bldg Sq Footage
- \$4.5B Plant (Facilities) Value
- 1,078 Privatized Housing
- 750 Miles of Road
- 553 Lodging (Hotel) Rooms
- 30+ Aircraft
- 8 Installation Entry Gates
- 5 Fire Stations

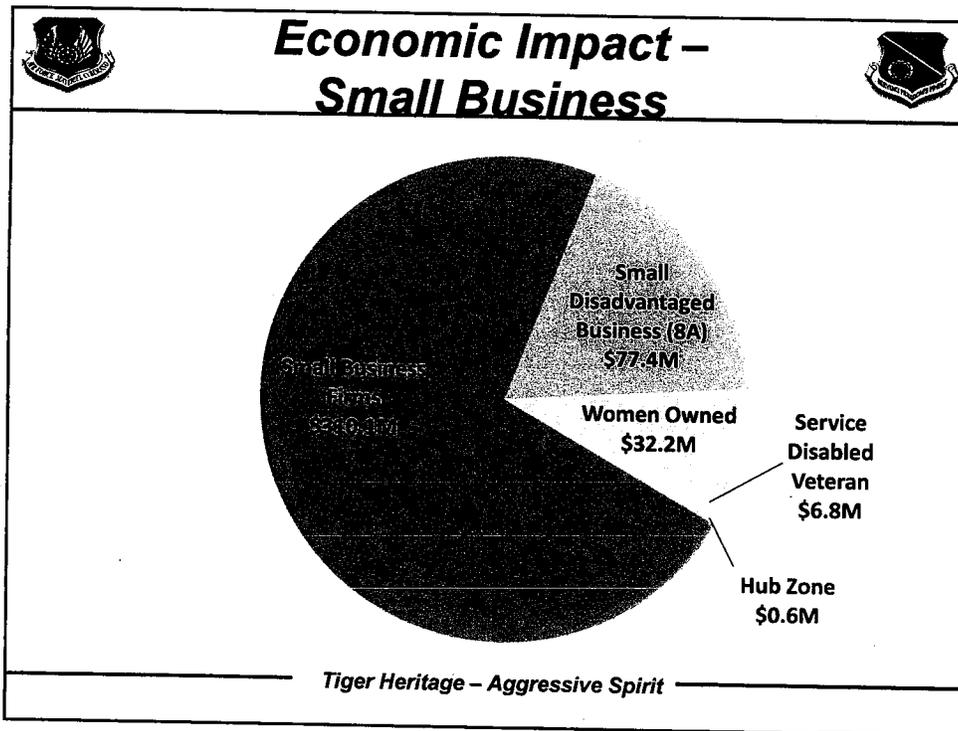
Tiger Heritage – Aggressive Spirit

 **Mission** 

 NUCLEAR	S A F E T Y	 SPACE	C O M P L I A N C E	 DIRECTED ENERGY
 SPECIAL OPS		 OPERATIONAL TEST & EVAL		 DISTRIBUTED MISSION OPS

Tiger Heritage – Aggressive Spirit





Education - STEM

K-12: AFRL La Luz Academy

- Mars Flight
- PETES Flight
- SPACE Flight
- Teacher Institute

15th Year of program
Students/year:

- 3000 5th Grade
- 800 Middle School
- 200 High School

30 Teachers/year

University Interactions

- Space Scholars - 282
- Directed Energy (DE) Scholars - 28
- Junior Scholars - 18
- NanoSat Program - 500

Professional Development

- Sys Eng Grad Certificates
- Adjunct Professors
- 50-60 Scholars Mentors/yr
- 45 Students 2003-07
- 25 Graduate Certificates
- Systems Engineering Cert
- Space Systems Certificate
- Grad certificates can be basis for MS in Systems Engineering

Hispano 47%	Indian - Alaska Native 21%	Black - African American 2%
	Caucasian 29%	Asian - Pacific Islander 1%



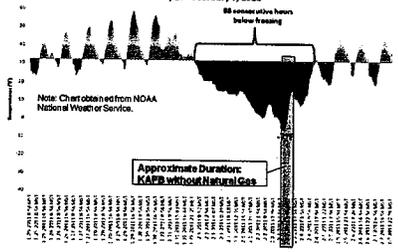

AFRL Kirtland AFB Phillips Research Site Education Pipeline - \$3M invested per year



Energy



**Albuquerque Sunport
Hourly Temperatures
January 25 - February 7, 2011**

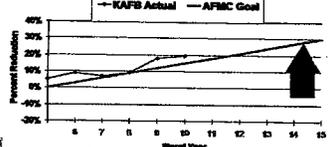


Note: Chart obtained from NOAA National Weather Service.

Approximate Duration:
KAFB without Natural Gas

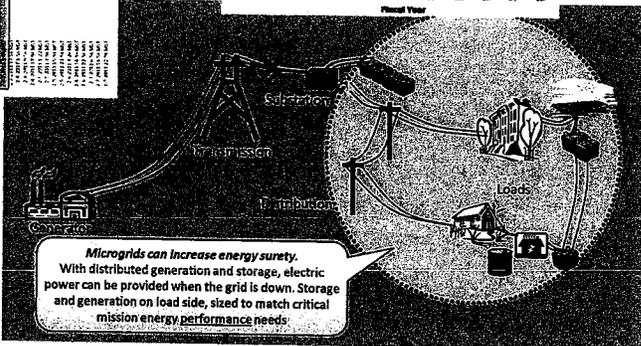
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AFMC GOAL: Reduce MBTU/SF an average of 3.00% per year baseline FY03



Percent Reduction

Fiscal Year



Microgrids can increase energy surety.
 With distributed generation and storage, electric power can be provided when the grid is down. Storage and generation on load side, sized to match critical mission energy performance needs.

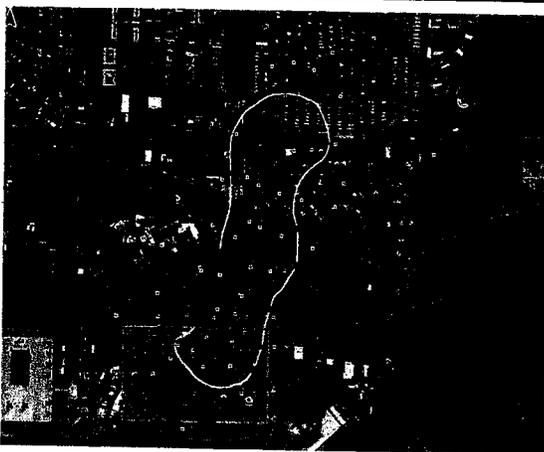
Energy Assurance for Critical Mission Performance

Tiger Heritage – Aggressive Spirit



Environment







Drilling Rig



New Bulk Fuel Storage Facility

Shared goal: Remove the fuel and its dissolved constituents from the ground and groundwater as quickly, safely, and effectively as possible.

STAKEHOLDERS









KIRTLAND AFB ECONOMIC IMPACT

This Economic Impact Statement (EIS) provides unclassified information about the resources and economic impact of Kirtland Air Force Base on the surrounding community.

This document is available to senior military officials, federal, state and local officials, business leaders, and visitors to the base.

The installation's economic impact on the local community is calculated from local area spending based on budgetary expenditures.

The local area, or Economic Impact Region, includes all counties within a 50-mile radius from the base center. This information is current as of September 30, 2010.

This document was prepared by 377th Comptroller Squadron Financial Analysis Office, incorporating inputs from Kirtland AFB organizations. It includes Department of Defense (DOD), Department of Energy (DOE), Sandia National Labs (SNL), and other entities on Kirtland AFB.

The total value of Kirtland Air Force Base's economic impact is approximately \$7.8 billion.

For questions, please contact the Kirtland AFB Public Affairs office.

Telephone: 505-846-5991

Email: 377ABW.PA@kirtland.af.mil.

TOTAL TEAM KIRTLAND IMPACT

DOD Employee Payroll	\$1,204,768,550
DOD Expenditures	\$3,055,727,423
DOD Local Job Creation	\$537,076,540
Total DOD Impact	\$4,797,572,513

DOE/SNL Employee Payroll	\$991,867,470
DOE/SNL/Expenditures	\$1,460,296,000
DOE/SNL Local Job Creation	\$537,987,268
Total DOE/SNL Impact	\$2,990,150,738

Total Team Kirtland. \$7,787,723,251

EXPENDITURE SUMMARY FY10

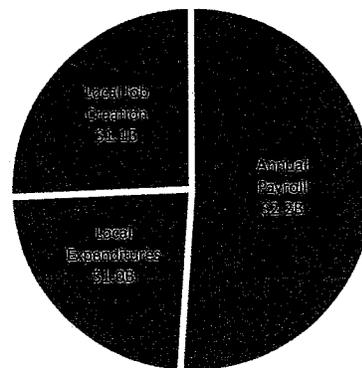
Federal Payroll (DoD & DOE)	\$1,194,416,604
Contractor Payroll	\$1,002,219,416
Payroll Sub-Total	\$2,196,636,020

Construction	\$41,376,856
Service Contracts	\$381,479,545
Local Contracts	\$383,265,198
Local Purchases	\$48,765,587
Operations & Maintenance	\$1,155,167,046
Research & Development	\$1,014,623,907
Educational Impact Aid	\$2,391,804
Off-base Medical Services	\$27,800,000
Temporary Duty Bed Nights	\$857,480
SNL Local Contracts	\$499,385,000
SNL Other Expenditures	\$960,911,000
Other Expenditures Sub-Total	\$4,516,023,423

Total Expenditures	\$6,712,659,443
Local Job Creation	\$1,075,063,808
Total	\$7,787,723,513

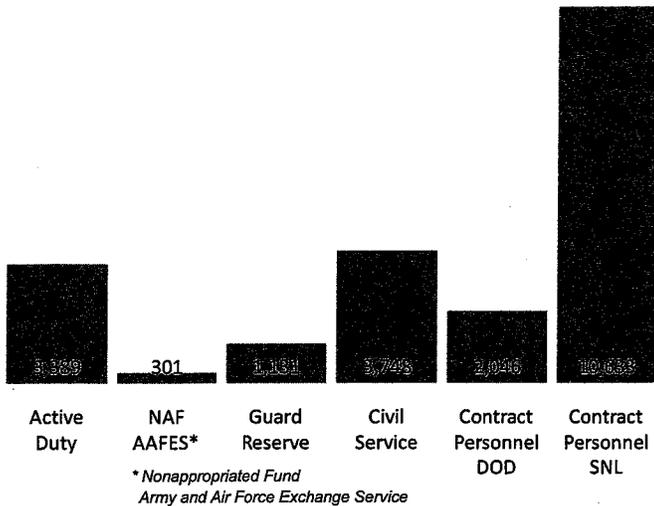
LOCAL ECONOMIC IMPACT

Approximately \$4.3B of the Total Kirtland AFB Economic Impact is local. This chart shows the components of Local Economic Impact for DoD and DoE.

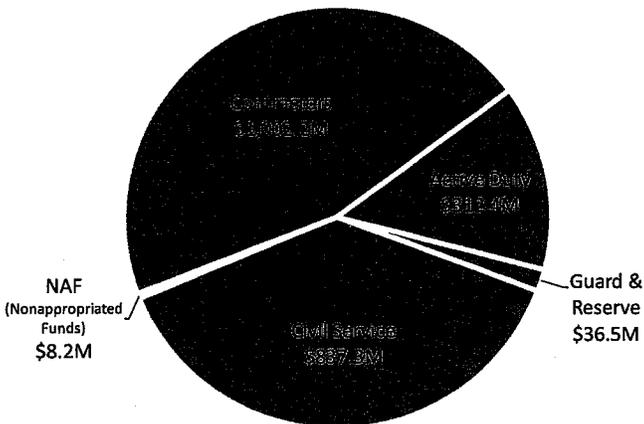


Employment associated with Kirtland AFB is estimated to represent one of every 14 jobs in the State of New Mexico...There are no known institutions or employers in the region that could replace the beneficial economic impacts if Kirtland AFB were to close or experience cutbacks. (SOURCE: Kirtland AFB Joint Land Use Study, Mid-Region Council of Governments (MRCOG) of NM, June 2010)

PERSONNEL BY CATEGORY



PERSONNEL BY PAYROLL



KIRTLAND AFB FAST FACTS

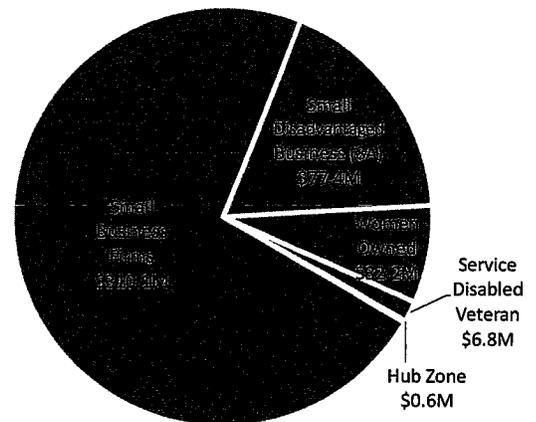
Mission Partners	100+
Acres	52,000
Buildings	777
Total Bldg Sq footage	7.3M
Plant (facilities) Value	\$4.5B
Privatized Housing	1078
Miles of Road	750
Lodging (hotel) Rooms	553
Aircraft	30+
Installation Entry gates	8
Fire Stations	5

MILITARY CONSTRUCTION IN PROGRESS

Replace Fuel Upload Facility and Tanks	\$16M
58SOW HC/MC-130 Flight Sim Facility	\$10M
Space Development B415 Bldg Addition	\$4M
Total	\$30M

SMALL BUSINESS

The FY10 Small Business Program (excluding Non-AF organizations and DOE) awarded almost \$428M to Small Businesses.



EDUCATION OUTREACH

AFRL La Luz Academy program is in its 17th year. The hands-on science, technology, engineering and math (STEM) Education Outreach supports the education pipeline from elementary school through undergraduate and graduate school.

More than 35,000 students from 404 schools and 83 districts, including private schools, have participated in the program.

There are approximately 3000 students, from 5th through 12th grade, who participate annually.

- 1200+ Mars Missions Flight students (5th grade)
- 900+ DoD STARBASE Flight students (5th & 6th grade)
- 600+ PETES Flight students (7th grade)
- 450+ Intro to Systems Engineering Flight students (8th grade)
- 100+ STEM Challenge Flight students (high school)

AFRL invests approximately three million dollars a year in these programs in New Mexico.

THIS IS TEAM KIRTLAND



Air Force Operational Test & Evaluation Center

Tests and evaluates new weapon system capabilities in operationally realistic battlespace environments to provide fact-based, decision-quality data to inform decision makers on a range of accurate, balanced and timely assessments of effectiveness, suitability and mission capability.



Air Force Safety Center

Preserves and enhances combat capability through resource preservation for both Airmen and equipment which is accomplished by mishap elimination.



Air Force Nuclear Weapons Center

Ensures safe, secure and reliable nuclear weapons systems to support the national command structure and the Air Force warfighter.



377th Air Base Wing

Provides world-class nuclear surety, expeditionary forces, and support to base operations.



498th Nuclear Systems Wing

Responsible for sustainment of nuclear munitions and cruise missiles.



58th Special Operations Wing

Trains mission-ready special operations, combat search and rescue, missile site support, and UH-1 Distinguished Visitor airlift crews directly supporting Air Expeditionary Forces for the world's best aerospace force.



150th Wing

Provides unsurpassed aerospace combat capability and combat support forces to meet any contingency in the world.



Air Force Research Laboratory Directed Energy Directorate

Develops, integrates, and transitions science and technology for directed energy to include high-power microwaves, lasers, adaptive optics, imaging and effects to assure the preeminence of the United States in air and space.



Air Force Research Laboratory Space Vehicles Directorate

Develops and transitions high pay-off space technologies supporting the warfighter while leveraging commercial, civil and other government capabilities to ensure America's advantage.



Space Development And Test Directorate

Develops, tests and evaluates Air Force space systems, executes advanced space development and demonstration projects, and rapidly transitions capabilities to the warfighter.



Air Force Inspection Agency

Provides independent and timely assessments of acquisition, nuclear surety, operations, logistics, support and health care to Air Force senior leadership by identifying critical deficiencies and recommending improvements for accomplishing peacetime and wartime missions.



505th Distributed Warfare Group

Provides high-fidelity theater synthetic battlespaces and world-class exercise control to support joint distributed warfighter training, testing and experimentation across the operational and tactical levels of war.



Airborne Laser Testbed

Develops and fields an integrated, layered, ballistic missile defense system to defend the United States, its deployed forces, allies, and friends against all ranges of enemy ballistic missiles in all phases of flight.



Det. 1, 342nd Training Squadron

Provides the highest quality training of pararescuemen and combat rescue officer personnel capable of worldwide deployment for rescue and recovery operations.



Defense Threat Reduction Agency

Safeguards America and its allies from Weapons of Mass Destruction (chemical, biological, radiological, nuclear and high explosives) by providing capabilities to reduce, eliminate, and counter the threat, and mitigate its effects.



Operationally Responsive Space

Provides the means necessary to field Tier 2 and 3 space capabilities in order to meet Joint Force Commanders' urgent needs for on-demand space support, augmentation or reconstitution, and when directed, supports the achievement of Tier 1 response times in coordination with other members of the National Security Space enterprise.



Department of Energy

Advances the national, economic, and energy security of the United States; to promote scientific and technological innovation in support of that mission; and to ensure the environmental cleanup of the national nuclear weapons complex



Sandia National Laboratories

Develops technologies to sustain, modernize, and protect our nuclear arsenal, prevents the spread of weapons of mass destruction, defends against terrorism, protects our national infrastructures, ensures stable energy and water supplies, and provides new capabilities to our armed forces.



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Director of Staff

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