Planning and the Military Base Next Door

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Overview

• Who We Are, Why We Are Here
• Air Force in Texas
• Air Force Bases and Urban Development
• What we do: Air Force Encroachment Management (AFEM) Program
• Tools of our trade
• Questions
Who We Are

• Air Force Civil Engineer Center (AFCEC)
  – Comprehensive planning and engineering services
  – Design and construction
  – Real property management
  – Energy support
  – Environmental compliance

• Regional Development Planning Branch (CPPR)
  – Air Force Encroachment Management (AFEM) Program
  – Air Installations Compatible Use Zones (AICUZ) Program
  – Noise Program
Why We Are Here

• Educate the community about AF & AFEM
• Promote timely information exchange
• Foster compatible development
• Collaboration for the future

Public Meeting, Dyess AFB

Public Meeting, Moody AFB
Texas Bases

- Air Force Bases
- Population: One dot = 7500 people
Air Force in Texas
Air Force in Texas

• Why Texas?
  – Good weather
  – Open Space
  – Central location

• Pilot training
  – Air Force
  – Navy
Air Force Missions
Flying Overhead
Air Space Congestion
Population Centers and AF Bases

- Air Force Bases
- Population: One dot = 7500 people
Development Over Time

- Most AF installations constructed as of the 1940s
- Many originally located miles from populated areas
- Urban development ‘attracted’ to installation

Kelly / Lackland AFB
Urban Development

**2013 boundaries overlaid on historical imagery  Source: USGS Landsat, Nellis AFB**
Changes in Technology
Population Growth and Military Aviation

(Population in Millions)

1800 1850 1900 1950 2000

50 100 150 200 250 300
What is Encroachment?

• NFL Definition
  – When a player enters the neutral zone and makes contact with an opponent before the ball is snapped
What is Encroachment?

• Conventional definitions
  – Gradual movement into an area (i.e. commercial encroachment into a neighborhood)
  – Take or use something (i.e. land) belonging to or used by someone else
What is Encroachment?

• AF defines encroachment as
  – Any deliberate military activity incompatible with a community’s use of its resources
  – Any deliberate action by governmental or non-governmental entities that inhibits, curtails or impedes current or future military activities on installations or training areas
Air Force Encroachment Management (AFEM) Program

• Program considers
  – How Air Force activities impact others
  – How activities of others impact Air Force
  – Self imposed impacts

• Establishes a new approach
  – Proactive vice reactive engagement
  – Assess land use compatibility/resource availability
  – Considers entire operational footprint
  – Evaluates 13 challenge areas
Beyond the Base – Operational Footprint
13 Challenge Areas

- Air
- Airborne Noise
- Airspace and Land Restrictions
- Cultural Resources
- Energy Compatibility and Availability
- Marine Resources
- Natural Factors/Climate Effects
- Security
- Spectrum Encroachment
- Threatened and Endangered Species
- Urban Growth
- Unexploded Ordinance
- Water
Airborne Noise

Those loud booms? They're from test range Whiskey 470

By: Howard Altman

“…People are saying that their houses are shaking and windows rattling…” The noises were tied to military exercises run out of Tyndall Air Force Base …

The noise complaints, which caused sheriff's offices in Hernando, Citrus and Gilchrist counties to get calls from concerned citizens, are unprecedented, said Bell. “This is the first time we had many people talking about the booms,” said Bell. “We do (the exercises) all the time…”

18 December 2014
Brush Fire Breaks Out at Vandenberg Air Force Base

POSTED: 12:59 PM PDT Jul 09, 2015  UPDATED: 04:49 PM PDT Jul 09, 2015

VANDENBERG AFB, Calif. - Fire crews battled a brush fire that broke out at Vandenberg Air Force Base Thursday afternoon. The fire grew quickly, and at one point, flames jumped over the highway but firefighters attacked that blaze very aggressively.

No structures were threatened, however, fire officials requested an evacuation warning for areas west of Constellation Road....
Expert: Maryland Must Prepare for Rising Sea Levels

By David Collins

Published 6:23 PM EST Jan 29, 2016

ANNAPOLIS, Md. – A leading expert in rising sea levels is warning coastal areas to start planning now for possible flooding. Oceanographer John Englander is in Annapolis this week discussing how geological change will transform the world beyond anyone’s imagination.

Englander suggests coastal areas begin long-range planning...the steady creep of the ocean will impact power and sewage plants, coastal airports, military bases, railroads and business districts.
Endangered Species and Critical Habitat

Don't scare the tortoise! Troops tiptoe around endangered species

Ariel Wittenberg, E&E reporter

The cardinal rule for Marines training at the Twentynine Palms Air Ground Combat Center in Southern California's Mojave Desert is this: Don't make the tortoise pee.

Whether troops are learning to drive tanks through the desert or practicing assaults, scaring a desert tortoise so much that it urinates is the one thing that can turn coexistence with the threatened animal from a mild nuisance into a serious disruption.

The tortoise survives on just 2 liters of water per year, aided by kidneys that can reabsorb urine from the bladder to rehydrate multiple times. That means when a tortoise urinates, it loses a significant portion of its annual water supply, increasing the likelihood it will die before the next rainfall.

The Fish and Wildlife Service allows any Marine who has read an informational packet to pick up a tortoise and move it out of harm’s way if the animal lumbers into a training area. If the tortoise relieves itself, it must be rehydrated. And only three people stationed at Twentynine Palms are authorized to help it do so.

On a base that spans more than 998 square miles, a peeing tortoise can delay a training exercise by four or five hours.
Renewable Energy
Energy Compatibility

Air Force concerns about radar interference stall huge Oregon wind energy farm

By Scott Learn, The Oregonian
April 14, 2010, 8:10PM

The Air Force is holding up construction of an Oregon wind farm that would be the largest in the country amid concerns that the farm’s 300-plus new turbines will interfere with transmissions from a radar station in Fossil.
Energy Compatibility
Tools of Our Trade

• Air Installations Compatible Use Zones (AICUZ)

• Joint Land Use Study (JLUS)

• Readiness and Environmental Protection Integration (REPI)

• Community initiated
Compatible Use and Airports

• 1950’s – The Doolittle Commission: “The Airport and Its Neighbors”
  • Purpose
    – Protect health and safety of those living near airports
  • Recommendations:
    – Promote compatible uses
    – Limit noise exposure
    – “Clear zone” concept
• 1960’s – DoD initiates studies
  – Evaluate accident potential
  – Noise impacts
AICUZ Program - Compatible Use

- Air Installations Compatible Use Zones (AICUZ)
  - First studies released in 1974
  - Analyze DoD flying mission impacts
  - Safety and Accident Potential
  - Aircraft Noise and Analysis
  - Flight Safety

- Purpose of the AICUZ program
  - Protect health, safety and welfare
  - Preserve flying missions

- Studies are planning documents
  - Promote compatible land uses
  - Advisory and non-binding
Aircraft Noise and the Community

- Noise is the primary complaint from the community
- Noise impacts:
  - People
  - Quality of Life
  - Economics
Nellis AFB F-35 Take Off

Single-Event Noise Visualization
Transient F-35B Lightning II
MIL Power Departure
with Afterburner Takeoff Roll
MORMON MESA FOUR
Runway 21L
Nellis Air Force Base

Estimated Instantaneous A-weighted Sound Pressure Level (SPL)

Time (mm:ss)
00:00 / 05:53
Elapsed / Total
Playback Speed 6x
AICUZ Public Release

• Public open house is part of AICUZ Study process
  – Good opportunity to work with local planners
  – Inform and educate property owners and public

Dyess to present Air Installation Compatible Use Zone Study

DYESS AIR FORCE BASE, Texas – Dyess Air Force Base is hosting an open house on Feb. 3, 2015, from 5:30-7:30 p.m. at the Tye Community Center to present Dyess’ Air Installation Compatible Use Zone Study.

The AICUZ study identifies aircraft noise and accident potential zones associated with Dyess’ flying operations.
JLUS Program

• Joint Land Use Study (JLUS)
  – Administered by Office of Economic Adjustment (OEA)

• Process
  – OEA provides funding
  – Installation plays advisory role
  – Community leads effort
  – Military activities considered

• Many studies completed in Texas
OEA Website

http://www.oea.gov/
Defense Department becomes a wildlife protector

The military is working with environmental groups and local governments to create buffer zones around bases where development threatened to encroach on combat training. It's been a conservation boon.

April 27, 2013 | By Louis Sahagun, Los Angeles Times
REPI Program

• Purpose – Land Conservation
  – Promote biodiversity
  – Preserve military training

• Requires a willing partner like:
  – Fed, State, and/or local GOVTs
  – A conservation or land trust

• 36,242 acres preserved to date
  – 12,300 acres in Texas
AFEM = Collaborative Planning

- Promote common interests through compatible use
- Create ‘buffers’ for installations and training areas
  - Protect health, safety and quality of life for community
  - Sustain military mission capabilities
  - Preserve critical habitats and open space
REPI Success – Camp Bullis

- Protection of 7,687 acres to:
  - Protect habitat for Golden Cheeked Warbler
  - Preserve training missions

- REPI Partners
  - City of San Antonio
  - Nature Conservancy
  - TX Parks and Wildlife
  - U.S. Fish and Wildlife
REPI Program

- [http://www.repi.mil/](http://www.repi.mil/)
Community Initiated – Randolph AFB

Air Force officials eyeing encroachment near Randolph

May 2015, 8:30 CDT

Bexar County Commissioners purchased a 51-acre tract of land next to Joint Base San Antonio-Randolph that will become a satellite campus for county offices and a substation for Sheriff Susan Pamerleau, the San Antonio Express-News reported Wednesday.

U.S. Air Force officials are reportedly backing the purchase because they are concerned that high-density development, both residential and commercial, is encroaching on the base.
Randolph AFB  
Holistic Approach

• Protects one of the busiest airfields in the Air Force with over 200,000 operations per year

• Bexar County:
  – 2015 $3.4M to purchase 51 acres
  – 2016 $1.3M for Clear Zone parcels

• State: Defense Economic Adjustment Assistance Grant DEAAG
  – 2016 $4.7M awarded to mitigate encroachment

• Federal REPI:
  – 2016: $2.3M 1st year funding for APZ issues
  – Future proposals for Lackland and Seguin Auxiliary
State Program

Texas Military Preparedness Commission

About TMPC

The next TMPC Quarterly Meeting will be held on December 10, 2015. Established in 2003 by the 78th Texas Legislature and placed in the Governor’s Office of Economic Development and Tourism in 2009, the Texas Military Preparedness Commission’s goal is to preserve, protect, expand, and attract new military missions, assets, and installations. Additionally, the TMPC encourages defense related businesses to expand or relocate in Texas. View the TMPC Installation Fact Sheet.
Questions/Feedback

• Chuck Cyr, AICP at Charles.Cyr@us.af.mil
• Richard King, AICP at Richard.King.40.ctr@us.af.mil
• http://www.afcec.af.mil/
Grant to Help Buffer Avon Park Bombing Range

$100,000 will go to purchase of easements from landowners

Published: Wednesday, July 1, 2015 at 12:01 a.m.
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AVON PARK | Polk County has been awarded a $100,000 Defense Reinvestment Grant to promote compatible land use around the Avon Park Air Force Range.

In total, Polk and the bombing range received about $1.5 million in REPI funding last year. The REPI program is a funding program with similar goals to the Defense Reinvestment Grant. It allows communities and military installations to purchase conservation easements for the protection of military installations and conservation of surrounding lands.
Grant in process to acquire property near Sheppard

BY: Claire Kowalick
POSTED: 3:02 AM, Sep 14, 2015
UPDATED: 5:16 AM, Sep 14, 2015
TAG: local news

WICHITA FALLS - The city of Wichita Falls’ acquisition of five properties near Sheppard Air Force Base could help security and transportation needs for base personnel and Wichita Falls residents.
Garage door frequencies jammed in entire Glendale subdivision

Posted: Jan 30, 2014 9:51 PM CDT Updated: Jan 30, 2014 10:46 PM CDT

GLENDALE, AZ (CBS5) -

A strange and unexpected radio frequency gremlin is paralyzing an entire Glendale neighborhood. Apparently other communities situated near military compounds have reported garage door problems at the same time military radio systems there are being upgraded.

The research CBS5 uncovered found the radio frequency in most garage door openers, is a frequency that's actually authorized to the U.S. Military.
Slide Layout

• Try to keep main bullets < one line
  – Sub-bullets provide more detail
  – Avoid just one sub-bullet (if possible)
  – Put overly “wordy” bullets in notes pages

• Goal: Professional, stand-alone briefings
  – Don’t obscure message with low-value data
  – Don’t obscure meaning by being too abbreviated

• Use animation / build effects if they enhance or strengthen your message

• Clear classification markings if classified
Slide Layout

• Slide title = 36 pt Arial bold, title case
• Main bullets = 28 pt Arial bold, sentence case
  – Sub-bullets = 24 pt Arial bold, sentence case
  – Use bullet styles and margins in this template
  – Set line spacing to 1, 0.2, 0 (in general)
• Use this template for title and body slides
• Limit # of slides … brevity is the soul of wit
  – Recommend one slide per 2 minutes of time
  – Follow 50/50 rule—for a 30-minute briefing, plan to brief for 15 minutes and allow 15 minutes for Q&A
Keep America Safe from the Zombie Apocalypse

How vulnerable is your state to the Zombie Apocalypse?

Source: Estately Inc.