

ENCROACHMENT MANAGEMENT

A Comprehensive Approach

NASA

International Workshop

On Environment and Alternative Energy

University of California at San Diego
San Diego, CA

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Encroachment Defined

“Any non-Navy action planned or executed in the vicinity of a naval activity or operational area which inhibits, curtails, or possesses the potential to impede the performance of the mission of the naval activity.”

BLUF

- *Encroachment Management is focused on protecting operational capability and investment.*
- *Encroachment Management successfully utilizes outreach to all stakeholders to find common objectives and promote partnerships.*
- *Encroachment Management leverages partners funding to provide long-term encroachment protection.*

Encroachment Management is critical to sustaining readiness

Encroachment Management Background

- Land, sea, and air operations at installations, ranges, and OPAREAs are experiencing encroachment challenges, including:
 - ✓ incompatible land use development including renewable energy (wind farms, solar, geothermal);
 - ✓ a shrinking frequency spectrum;
 - ✓ increasing airborne noise impacts;
 - ✓ growing population of threatened and endangered species and environmental restrictions;
 - ✓ and private and public pressure to use Navy-owned land
- Encroachment Management ensures operational readiness for all installations and test and training ranges

Classic Encroachment NAS LOS ALAMITOS

- Orange County, California
 - ✓ Los Alamitos 1942
 - ✓ Los Alamitos 1959
 - ✓ Los Alamitos 2000
 - ✓ Los Alamitos “Today”



1942

ROSSMOOR

EASTGATE

1959



NAVAL AIR STATION
LOS ALAMITOS

*"Pardon Our NOISE
it's the Sound of Freedom"*

MAIN ENTRANCE FARQUHAR and LEXINGTON



c. 1970s



2000



NAS LEMOORE

Challenges & Mission Impacts

Urban Development
(*Dev. under MTRs, Population Growth, transportation infrastructure*)



Avoidance Areas Created

Airborne Noise



Reduced Usage days

Competition for air, land, sea
(*airports*)



Test/Train Events Prohibited

Competition for scarce resources
(*offshore drilling, LNG, wind, minerals, energy corridors*)



Reduced range Access

Segmented Testing/Training

Threatened/Endangered Species
(*wildlife habitat*)



Limits on Use of New technology

Maritime Issues (*Coastal Zones, Sanctuaries*)

Unexploded Ordnance

Restricted Altitudes/Speeds

Safety Arcs



Inhibited Tactics Development

Frequency Spectrum Interference

Air Quality - Water Quality

Restricted Night Ops

Environmental Regulations



Reduced Live Fire Proficiency

Interagency Coordination

Legislative Initiatives



Increased Costs or Risks

(*Wilderness Designation, Sale of Public Lands*)

Encroachment Management

- Encroachment Action Plans (EAP)
 - ✓ Identify and prioritize short, mid, and long-term strategies to mitigate encroachment challenges
- Encroachment Partnering (EP)
 - ✓ Leverage Navy or REPI funds to acquire real property interests in the form of restrictive or conservation easements
- Air Installations Compatible Use Zones (AICUZ)
 - ✓ Compatible development in the vicinity of Navy airfields through land use controls (e.g., zoning, height restrictions, disclosure, etc.)
- Community Planning and Liaison Officers (CPLOs)
 - ✓ Implement Encroachment Management Plan and interact with local government and all stakeholders

CPLO

Community Planning and Liaison Officer

CPLOs are the critical element in Navy's encroachment management strategy. Region CPLOs advise Regional Commanders on encroachment issues and work with Installation CPLOs to implement EAP, AICUZ/RAICUZ, and other plans and programs to protect Navy's operational capability and investment.

§ 2684a - Agreements To Limit Encroachments And Other Constraints On Military Training, Testing, And Operations

- Navy may enter into an agreement with an eligible entity to address the use or development of real property in the vicinity of, or ecologically related to, of a military installation for the purpose of ...
 - ✓ Limiting any development or use of the property that would be incompatible with the mission of the installation; or
 - ✓ Preserving habitat on the property in a manner that—
 - **(A) is compatible with environmental requirements; and**
 - **(B) may eliminate or relieve current or anticipated environmental restrictions that would or might otherwise restrict, impede, or otherwise interfere, whether directly or indirectly, with current or anticipated military training, testing, or operations on the installation**

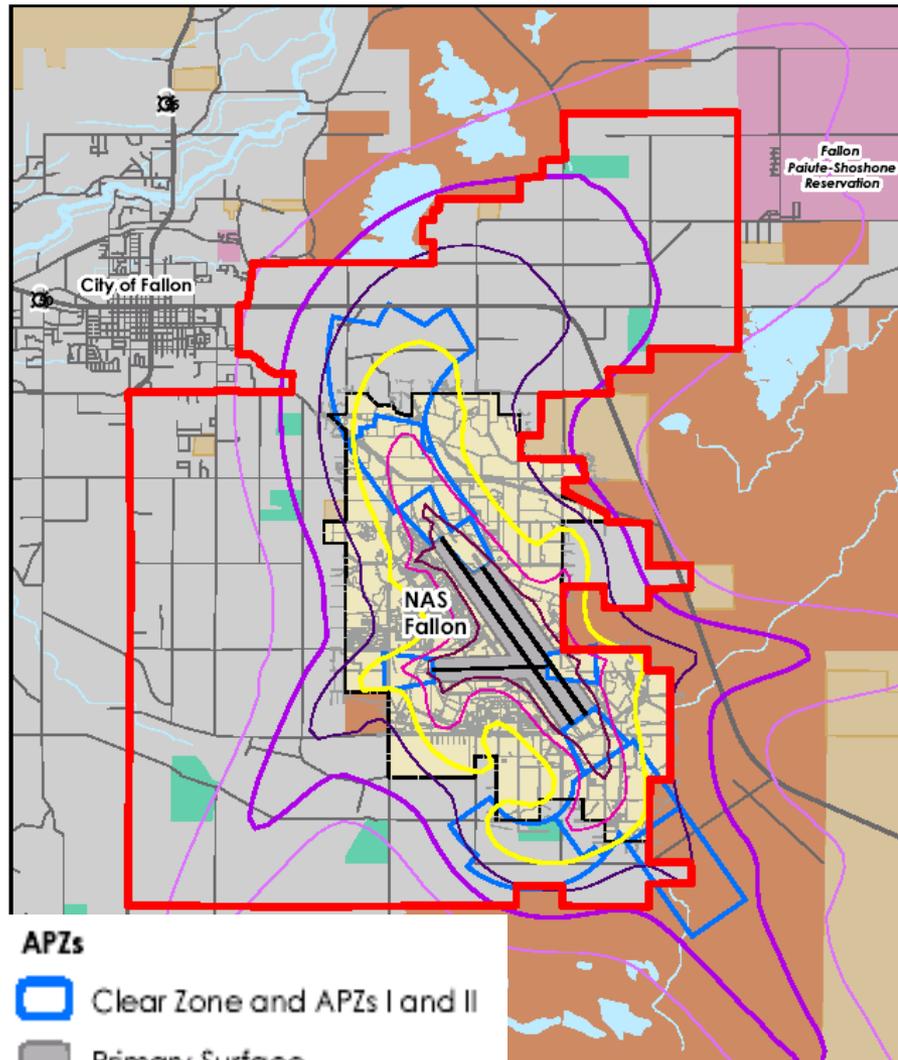
Multi-Year Encroachment Protection Agreements

	Project Title	Installation or Range
FY06	Agreement with Churchill County	NAS Fallon
FY06	Agreement with State of Florida	NAS Whiting Field
FY07	Agreement with local NGOs	NAS Fallon
FY07	Agreement with Santa Rosa County	NAS Whiting Field
FY07	Agreement w\City of Virginia Beach	NAS Oceana (NALF Fentress)
FY07	Agreement with Ocean County	NAES Lakehurst
FY08	Agreement with City of Chesapeake	NAS Oceana (NALF Fentress)
FY08	Agreement with TNC	R-2508 Range Complex
FY09	Agreement with City of Chesapeake	NSA Norfolk, NW Annex
FY09	Agreement with City of Jacksonville	OLF Whitehouse
FY09	Agreement with TPL	NAS JRB New Orleans
FY09	Agreement with WCLT	OLF Coupeville
FY09	Agreement with MD, TNC, & CF	Atlantic Test Range & NAS Pax River
FY10	Agreement with TPL	NB Coronado

Encroachment Partnering Projects

- NAS Fallon, NV
- NAS Whiting Field, FL
- NAS Oceana/NALF Fentress, VA
- NAWS China Lake-Edwards AFB (R-2508), CA
- NAS Pensacola, FL
- Outlying Landing Field (OLF) Whitehouse, FL

NAS Fallon



APZs
Clear Zone and APZs I and II
Primary Surface
Compatibility Study Area

Navy & Churchill County Agreement
Navy & local Land Trusts Agreement

@24,000 acres w/6,000 acres

targeted

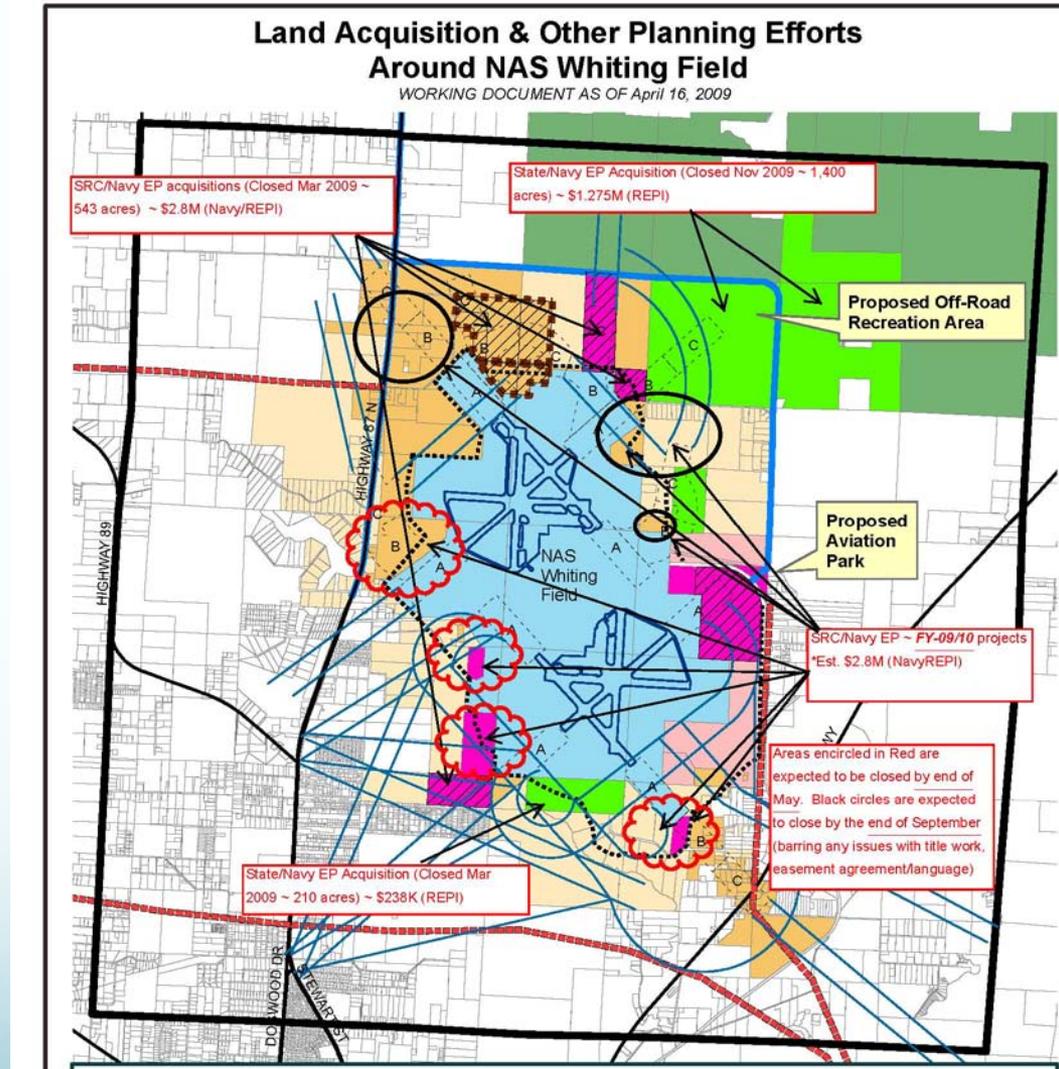
- Natural Growth Corridors
- AICUZ
- Expansion of R/W 7/25
- Land Ownership
- Natural Boundaries

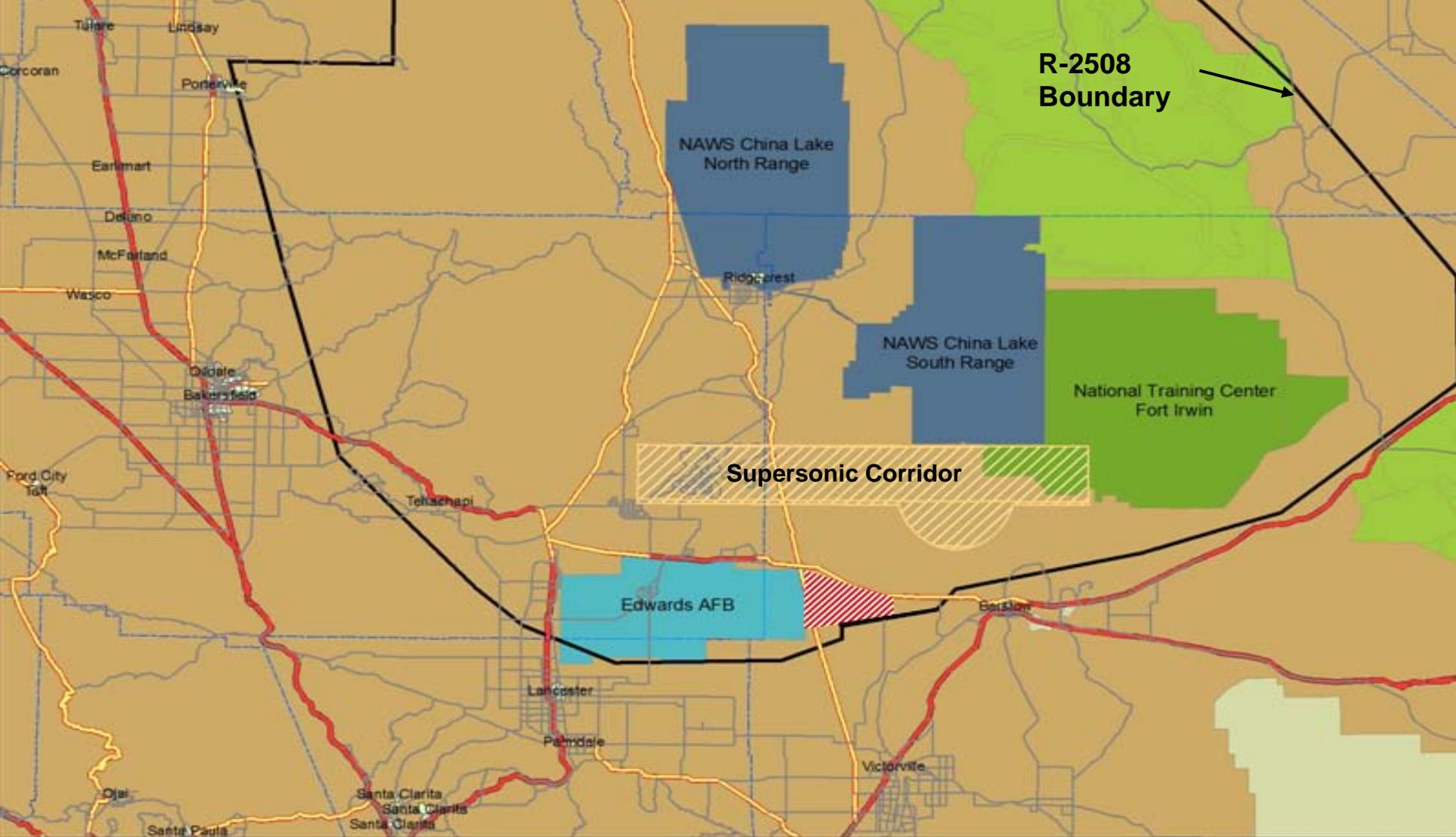
Bureau of Land Management	Noise Contours
Bureau of Indian Affairs	60 dB
Bureau of Reclamation	65 dB
Fish and Wildlife Service	70 dB
Privately Owned	75 dB
Navy Boundary	80 dB

NAS Whiting Field

NAS Whiting Field

- Navy has 2 EP Agreements one w/County; one w/Florida
- Navy has obligated over \$10.6M in REPI and Navy funds since FY06
- Navy has acquired 2,270 acres in restrictive easements or covenants
- Projects are protecting Accidental Potential Zones and flight paths for initial Navy flight training (aircraft and helicopters)
- Community saves agricultural uses, conserves habitat, and creates recreational uses





Legend

-  BMSSC
-  Hawes Field
-  R-2508 Complex

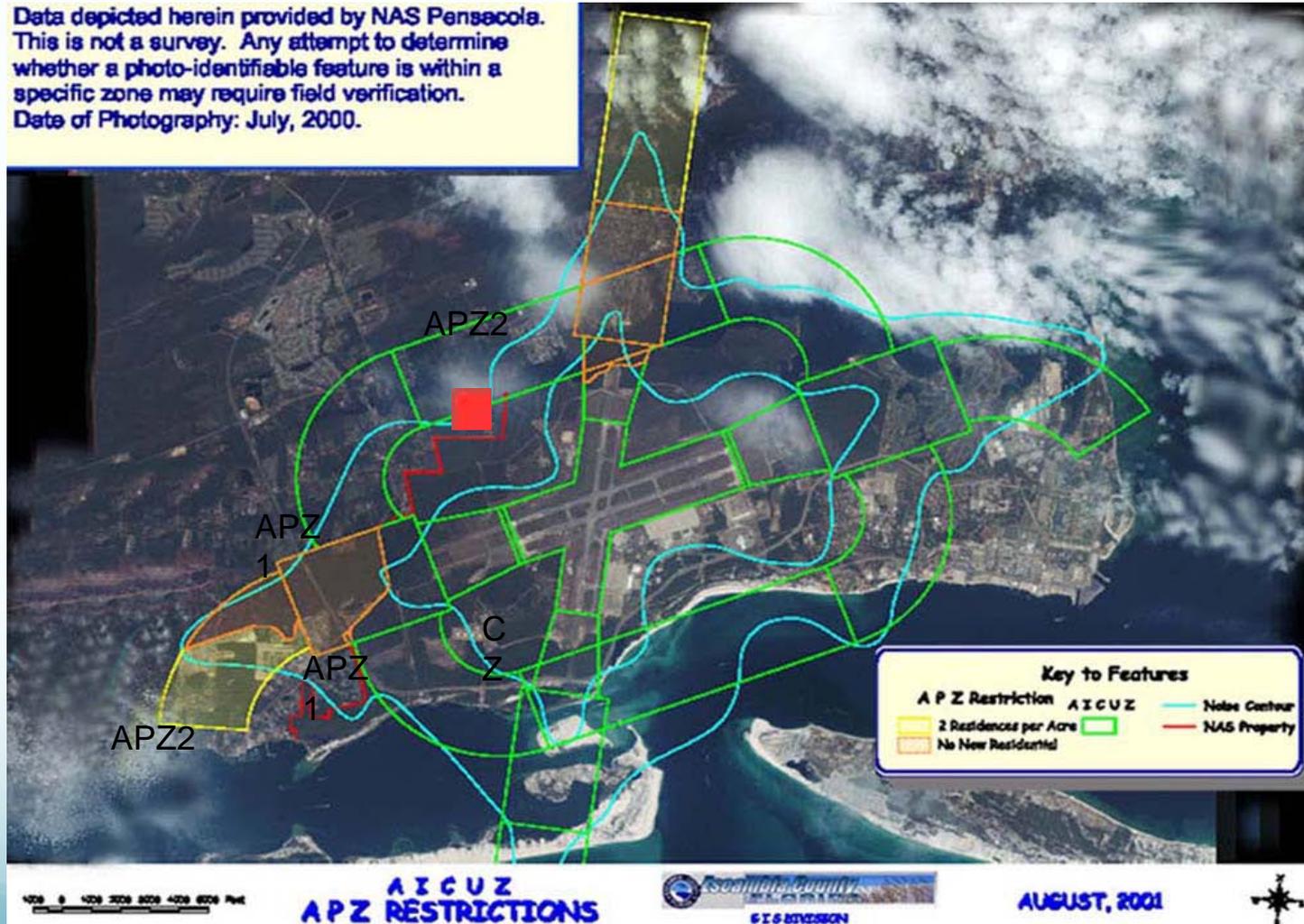
**REPI Project
Black Mountain Supersonic
Corridor/Hawes Field
Regional Map**

16 August 2007

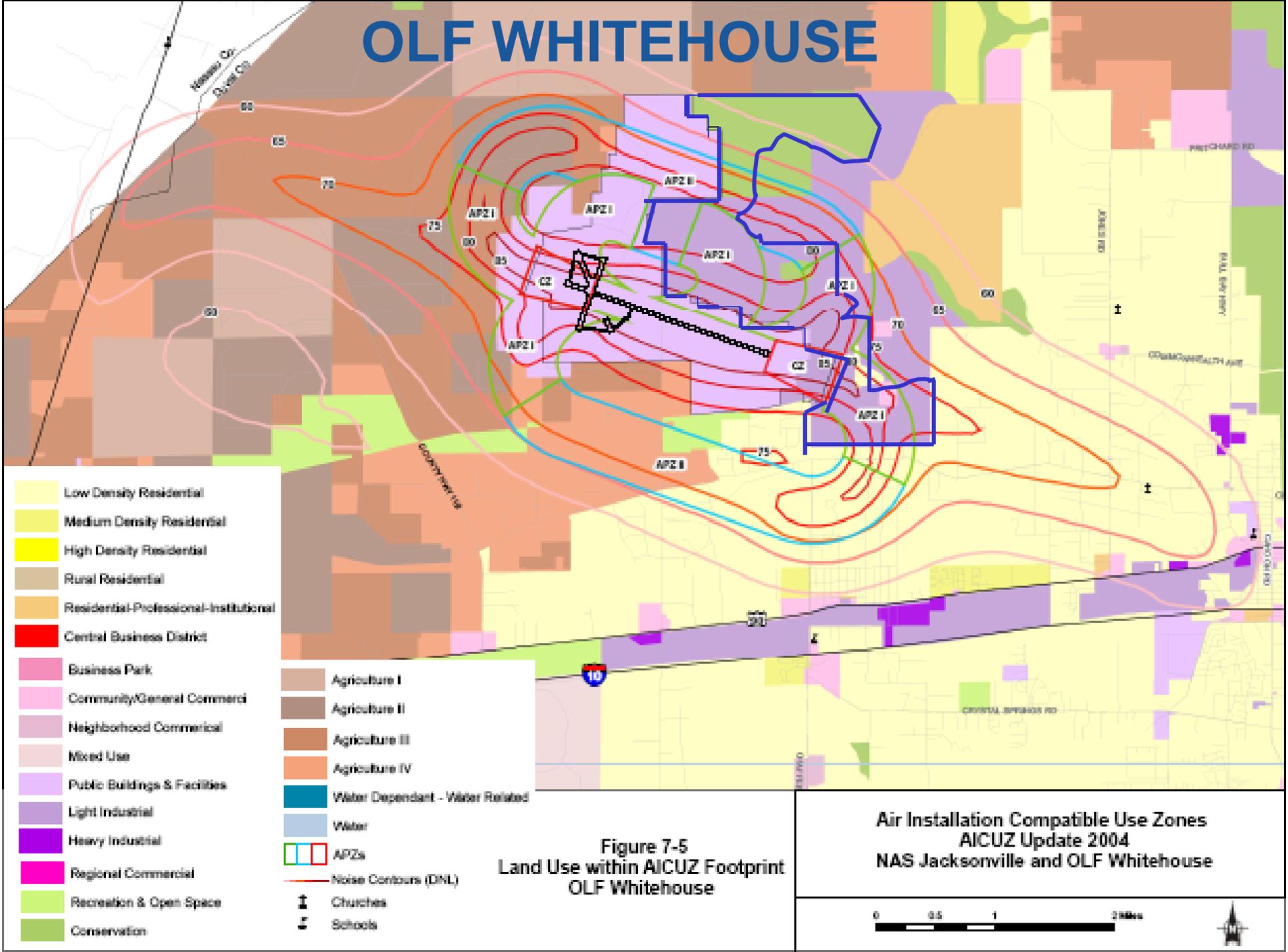
NAS PENSACOLA

Bayou Grande Project

Data depicted herein provided by NAS Pensacola.
 This is not a survey. Any attempt to determine
 whether a photo-identifiable feature is within a
 specific zone may require field verification.
 Date of Photography: July, 2000.



OLF WHITEHOUSE



- Low Density Residential
- Medium Density Residential
- High Density Residential
- Rural Residential
- Residential-Professional-Institutional
- Central Business District
- Business Park
- Community/General Commerci
- Neighborhood Commerical
- Mixed Use
- Public Buildings & Facilities
- Light Industrial
- Heavy Industrial
- Regional Commercial
- Recreation & Open Space
- Conservation

- Agriculture I
- Agriculture II
- Agriculture III
- Agriculture IV
- Water Dependent - Water Related
- Water
- APZs
- Noise Contours (DNL)
- Churches
- Schools

Figure 7-5
Land Use within AICUZ Footprint
OLF Whitehouse

Air Installation Compatible Use Zones
AICUZ Update 2004
NAS Jacksonville and OLF Whitehouse

0 0.5 1 2 Miles



Questions

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BACKUP

Encroachment Management Roles and Responsibilities

- Chief of Naval Operations (CNO) has responsibility for Navy-wide encroachment program.
- Commander, Navy Installations Command (CNIC) executes the program for CNO.
- Naval Facilities Engineering Command (NAVFAC) provides program management for CNIC by through planning, environmental, real estate, and legal support.

Encroachment Management Budget

- CNIC funding for EAPs, EP, CPLOs:

FY 10 - \$8.0M

FY 09 - \$8.5M

FY 08 - \$8.0M

- DoD REPI funding for EP acquisitions

FY10 - Navy \$13.2M (DON \$23.0M)

FY09 - Navy \$11.6M (DON \$19.8M)

FY08 - Navy \$ 6.4M (DON \$15.5M)

FY07 - Navy \$ 5.5M (DON \$12.2M)

FY06 - Navy \$ 7.9M (DON \$12.0M)

FY05 - Navy \$ 1.0M (DON \$ 2.5M)

CPLO Training

- CPLO Annual Seminar (outward focus)
 - ✓ local governments
 - ✓ regional governments
 - ✓ Non-Governmental Organizations (NGOs)
 - ✓ other Military Services
- CPLO Annual Workshop (internal focus)
 - ✓ execution issues
 - ✓ common business practices and lessons learned
 - ✓ Risk communications training

Policy and Guidance

- CNO Encroachment Management Instruction
 - ✓ OPNAVINST 11010.40 27 Mar 07
 - ✓ OPNAVINST 11010.36C 9 Oct 08 (AICUZ Program)
 - ✓ OPNAVINST 3550.1A 28 Jan 08 (RAICUZ Program)
- CNIC Encroachment Management Inst
 - ✓ Establishes CNIC lead execution role
 - ✓ Identifies Region responsibilities
 - ✓ Establishes CPLO Program under the Commanding Officer
 - ✓ Requires annual reporting to CNIC on EAP implementation progress
 - ✓ Identifies NAVFAC Program Management responsibilities

Navy EAPs Completed (as of 10/01/2010)

NAS Fallon	CNRSW	Completed	NAS Lemoore	CNRSW	Completed
NAS JRB Fort Worth	CNRSE	Completed	NWS Seal Beach	CNRSW	Completed
NAS JRB New Orleans	CNRSE	Completed	NAS Oceana, Dam Neck Annex	CNRMA	Completed
NSA Norfolk, NW Annex	CNRMA	Completed	Dare County Ranges	CNRMA	Completed
NAF El Centro	CNRSW	Completed	NAS Corpus Christi	CNRSE	Completed
NAS Pax River	NDW	Completed	NS Pearl Harbor, Hawaii	CNRH	Completed
NSA South Potomac	NDW	Completed	NB Kitsap	CNRNW	Completed
NS Newport	CNRMA	Completed	SUBASE Kings Bay	CNRSE	Completed
NB Ventura County	CNRSW	Completed	JEB Little Creek-FT Story	CNRMA	Completed
NAWS China Lake	CNRSW	Completed	VACAPES	CNRMA	Completed
NAS Whiting Field	CNRSE	Completed	SUBASE New London	CNRMA	Completed
NAS Jacksonville	CNRSE	Completed			
NS Mayport	CNRSE	Completed			
NSA Panama City	CNRSE	Completed			
NAES Lakehurst	CNRMA	Completed			
NS Everett	CNRNW	Completed			
NAS Whidbey Island	CNRNW	Completed			
Flagstaff Observatory	CNRSW	Completed			
NS Norfolk	CNRMA	Completed			
NSA Norfolk	CNRMA	Completed			

Navy EAPs In-Progress/Awarded (as of 10/01/2010)

NAS Kingsville	CNRSE	In-Progress	NAS Fallon	CNRSW	Re-Fresh
NAS Key West	CNRSE	In-Progress	NAWS China Lake	CNRSW	Re-Fresh
NAS Pensacola	CNRSE	In-Progress	NAS Lemoore	CNRSW	Re-Fresh
NAS Jacksonville Ranges	CNRSE	In-Progress	NAF EI Centro	CNRSW	Re-Fresh
NAVMAG Indian Island	CNRNW	In-Progress	NBVC Ventura County	CNRSW	Re-Fresh
NAS Meridian	CNRSE	In-Progress			
NB Coronado w/SCI	CNRSW	In-Progress			
Pt Mugu Sea Range (NAVAIR)	CNRSW	In-Progress			
NSA Washington	NDW	In-Progress			
NSA North Potomac	NDW	In-Progress			
Marianas (Navy/ Marine Corps)	CNRM	In-Progress			
PMRF Kauai, Hawaii	CNRH	Awarded			
NB San Diego	CNRSW	Awarded			
SUBASE Point Loma	CNRSW	Awarded			
NPS Monterrey	CNRSW	Awarded			
Fallon Range Complex	CNRSW	Awarded			
EI Centro Range Complex	CNRSW	Awarded			
SW Region Whitespace	CNRSW	Awarded			