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Guam and CNMI Military Relocation  
Draft Environmental Impact Study

**Public Workshop in Yigo & Mangilao**



Shaping the Future...Together

“As we move forward in *Shaping the Future Together*, this is your opportunity to provide direction in the development of our road map for our children and future generations. Your participation at the public workshop is vital.”



## Workshop Overview



Shaping the Future...Together

## Purpose of the GovGuam Workshop



- Informational presentation
  - Overview of DEIS Fact Sheets
  - How to write DEIS comments that get the **answers you deserve**
  
- Open house
  - Facilitate public in effectively documenting their comments
  - Four area stations are available to assist in answering questions on four topical areas:
    - Vol 2: Marine Corps Actions
    - Vol 4 / 5: Navy / Army
    - Vol 6: Related Actions
    - Vol. 7 / 9: Mitigation / SIAS
  - ACT / GovGuam staff available to assist

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## Tonight's Workshop is not...



- a JGPO Hearing
  - JGPO had a series of hearings to take testimony / comments
  - Tonight is not setup for taking verbal comments



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## Draft EIS Tasks for ACT



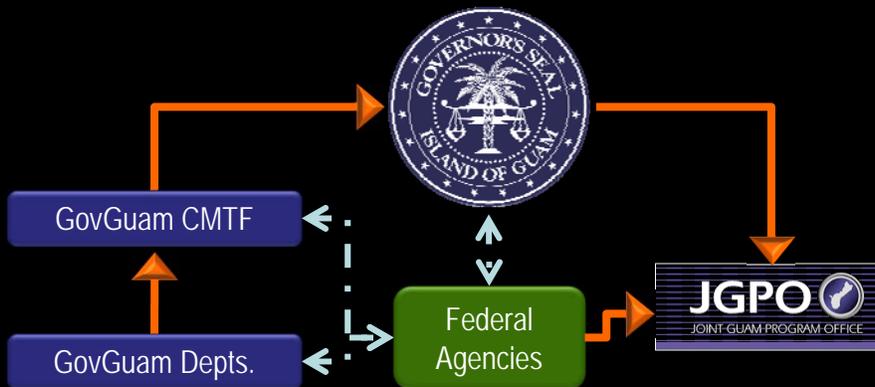
- Read complete DEIS
- Developed Fact Sheets of each DEIS major volume
  - Executive Summary
  - Preferred Alternatives
  - Volume 1 – Volume 9 (no Fact Sheet on Volume 8)
- Not a technical review



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## GovGuam DEIS Response



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# Overview of Draft EIS



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## EIS Process



## Impact Terms



- SI Significant impact
- SI-M Significant impact mitigable to less than significant
- LSI Less than significant impact
- NI No impact

## Mitigations



- **Avoidance:** Avoid the impact by changing the action.
- **Minimization:** Minimize impacts by changing the intensity, timing, magnitude, or duration of the action and its implementation.
- **Rectifying:** Rehabilitate, repair, or restore damage that may be caused by implementing the proposed actions.
- **Reducing / Eliminating:** Reduce or eliminate the impact over time.
- **Replacement:** Compensate for an impact by replacing the damage and improving the environment elsewhere, or by providing other substitute resources such as funds to pay for the environmental impact.

# Major Actions Proposed on Guam



## Marine Corps

- Main base
- Training functions
- Airfield functions
- Waterfront functions

## Infrastructure

- Power
- Water
- Wastewater
- Solid Waste
- Roadways

## Navy & Army

- Berthing facility
  - Access channel (dredging)
- 
- HQ and housing
  - Munitions storage
  - Weapons emplacement

## Socioeconomic

- Population Change
- Economic Activity
- Public Services
- Sociocultural Issues

# Volume 2: Marine Corps Actions

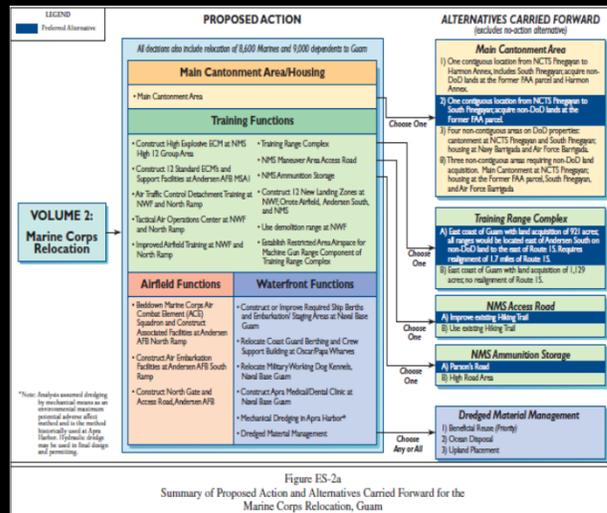
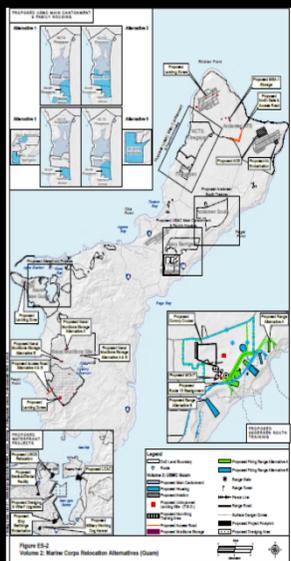
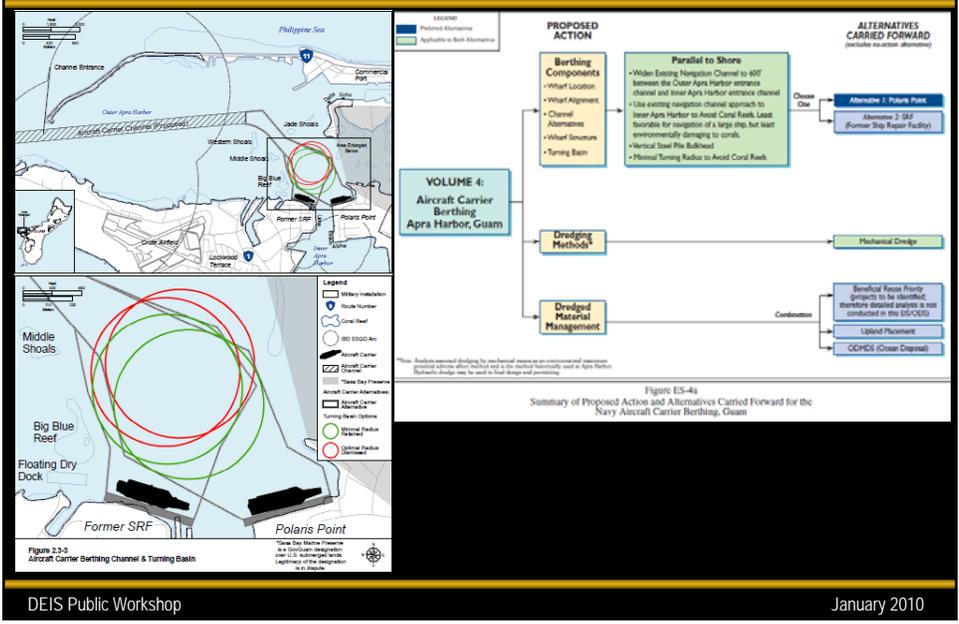


Figure ES-2a  
Summary of Proposed Action and Alternatives Carried Forward for the Marine Corps Relocation, Guam

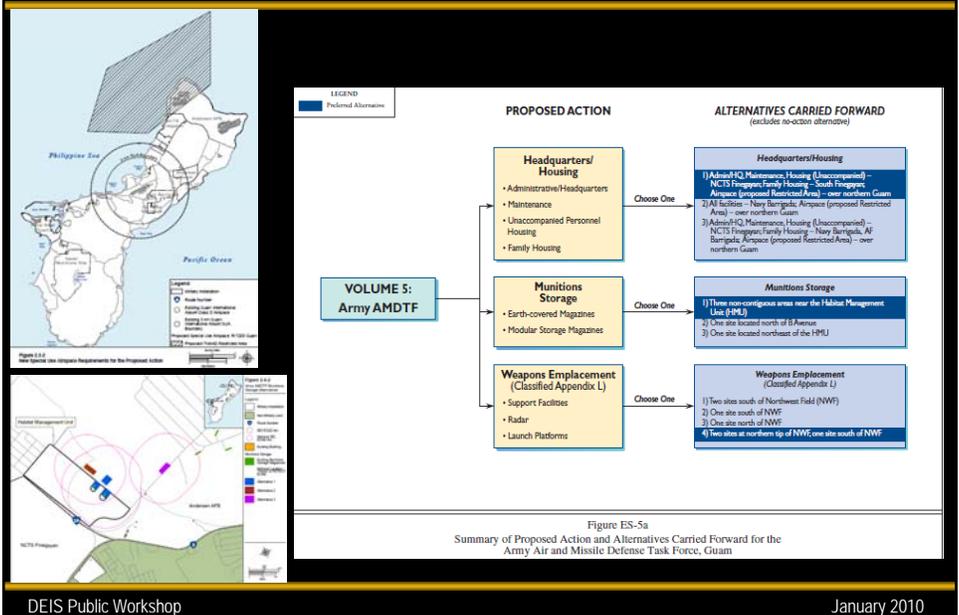
# Volume 4: Navy Actions



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# Volume 5: Army Actions



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# Land Issues



Figure 2.1-2 Overview of Projects on Guam (Non-DoD Lands)

\*Note: Specific locations & configurations vary by alternative. Refer to respective volume(s) of EIS for detailed descriptions; volume and section numbers are included for each area

**Former FAA**

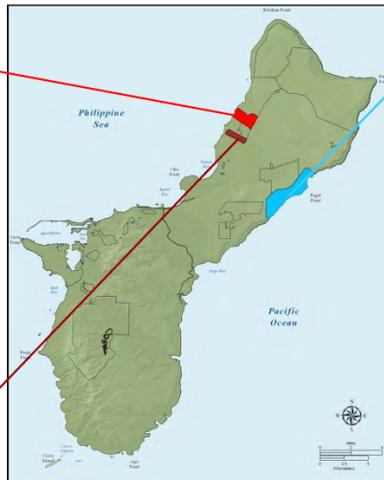
**Vol. 2**

- Main Cantonment (includes quality of life facilities, family housing)

**Harmon Area**

**Vol. 2**

- Family Housing (includes quality of life facilities)



**Route 15 Area**

**Vol. 2**

- Firing Range Complex

**Non-DoD Other Areas**

**Vol. 2; Vol. 6**

- Firebreak Access Roads into NMS
- Utilities: Power, Water, Wastewater, Solid Waste
- Haul Road Network (improves existing roadways)

# Project Lists and Locations



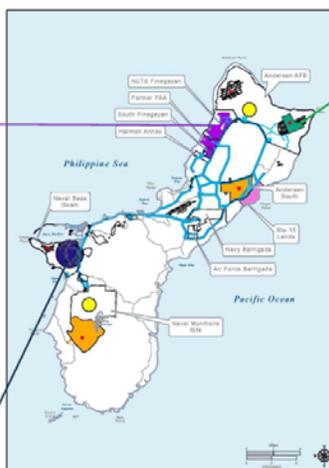
Figure 1.1-1 Overview of Preferred Alternatives on Guam

**Main Cantonment Functions**

- Headquarters (HQ) and Administrative:
  - Administrative offices
  - Vehicle maintenance
  - Communications
  - Security
  - Warehousing
  - Armory
  - Fuel storage
  - HAZMAT, DRMO, Recycling
- Base Operations:
  - Administrative offices
  - Police/fire facilities
  - Base Access
  - Warehousing
  - Legal services, dental services, family services, and MWR support
- Bachelor's Quarters and Temporary Lodging
- Family Housing
- Educational Facilities
- Quality of Life Functions:
  - Community center, commissary, exchange, post office, theater, recreational, etc.
  - Applied instruction and auditorium
  - Services: restaurant, bank, gas station

**Waterfront Functions**

- Amphibious task force ship berthing
- Embarkation and cargo inspection and staging area
- LCAC/AAV laydown area
- Apra Harbor medical/dental clinic
- Relocations: Military Working Dog Kennels, USCG wharf and support facilities
- Aircraft carrier wharf and navigation channel



**Interim Utilities & Roadways**

- Roadways [new & existing]
- Solid waste, water, wastewater, & power

**Airfield Functions**

- Air embarkation
- ACE beddown:
  - Hangars/aprons
  - Administrative
  - Maintenance
  - Fire and rescue

**Training Functions**

- Training Range Complex:
  - Live-firing ranges
  - Indoor small arms range
  - Demolition range
- Ammunition storage
- Non-firing Ranges:
  - Obstacle course
  - Hand to hand combat
  - Gas chamber
  - Advanced motor vehicle course
  - Rappelling
  - Engineer equipment and decontamination training facility
  - Maneuver training
  - Range support buildings
- Aviation Training:
  - Tactical air operations training
  - Improved airfield
  - Landing zones
  - Air traffic control
- Command, Control and Simulation:
  - Battle Staff Training
  - Combined arms training
  - Audio visual and simulation training

## Impact Summary



Resource	Action	Imp	Findings
Water Resources	Construction	SI-M	<ul style="list-style-type: none"> <li>• Temporary water quality impacts in Apra Harbor during dredging. Mitigation measures required by dredging permits.</li> <li>• Potential fill of wetlands. Mitigation measures include creation of replacement wetlands or improvement of existing wetlands.</li> </ul>
Noise	Operation	SI	<ul style="list-style-type: none"> <li>• Roadway noise in north and central areas of Guam. Mitigation not yet determined.</li> </ul>

*SI Significant impact*

*SI-M Significant impact mitigable to less than significant*

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## Impact Summary



Resource	Action	Imp	Findings
Land, Roadways, and Submerged Land Use	Construction	SI-M	<ul style="list-style-type: none"> <li>• Roadway construction adversely impact roadway use. Mitigation includes a Traffic Management Plan.</li> </ul>
	Operation	SI-M	<ul style="list-style-type: none"> <li>• Federal acquisition of land for main cantonment, firing ranges, and roadway improvements. Mitigation could be long-term leases of the property.</li> </ul>

*SI Significant impact*

*SI-M Significant impact mitigable to less than significant*

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## Impact Summary



Resource	Action	Imp	Findings
Terrestrial Biological Resources	Construction	SI	<ul style="list-style-type: none"> <li>Loss of habitat for special-status species from clearing of vegetation.</li> <li>Introduction of Invasive species. Mitigated through existing interdiction plans and policies.</li> </ul>
	Operation	SI-M	<ul style="list-style-type: none"> <li>Disturbance of special status species from noise. Mitigation includes BMPs and noise barriers.</li> </ul>

SI Significant impact

SI-M Significant impact mitigable to less than significant

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## Impact Summary



Resource	Action	Imp	Findings
Marine Biological Resources	Construction	SI-M	<ul style="list-style-type: none"> <li>Impact to coral reef ecosystem in Outer Apra harbor from dredging. Mitigation includes watershed management and artificial reef construction.</li> </ul>
Cultural Resources	Construction	SI-M	<ul style="list-style-type: none"> <li>Approximately 34 NRHP-eligible or listed archaeological resources impacted. Mitigation in accordance with Programmatic Agreement with State Historic Preservation Office.</li> <li>Potential Impact to four traditional cultural properties. Mitigated through public education and implementation of preservation plan.</li> </ul>

SI Significant impact

SI-M Significant impact mitigable to less than significant

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## Impact Summary



Resource	Action	Imp	Findings
Utilities	Construction & Operation	SI-M	<ul style="list-style-type: none"> <li>Impact to existing overburdened utilities infrastructure.</li> <li>Potable Water: projected water demand without military buildup exceeds the current GWA water system capacity.</li> <li>Wastewater: higher than currently permitted wastewater flow to NDWWTP. Requirement to upgrade NDWWTP to secondary treatment.</li> <li>Mitigation: Suite of techniques including adaptive management to adjust construction temps.</li> </ul>

*SI Significant impact*

*SI-M Significant impact mitigable to less than significant*

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## Impact Summary



Resource	Action	Imp	Findings
Socioeconomic and General Services	Construction & Operation	SI-M	<ul style="list-style-type: none"> <li>Beneficial impacts to economics and tourism.</li> <li>Adverse impacts to population, housing, public services, crime, social order, and community.</li> <li>Impacts of sudden activity that peak during 2013-2015 timeframe.</li> <li>Effects on Neighborhoods and Businesses.</li> <li>Property Acquisition and Relocation.</li> <li>Mitigation: Suite of mitigation measures including adaptive management techniques to adjust construction tempos.</li> </ul>

*SI Significant impact*

*SI-M Significant impact mitigable to less than significant*

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## Impact Summary



Resource	Action	Imp	Findings
Environmental Justice and the Protection of Children	Construction	SI-M	<ul style="list-style-type: none"> <li>Roadway traffic and noise impact low income, children, and racial minorities. Mitigation proposed.</li> </ul>
	Operation	SI-M	<ul style="list-style-type: none"> <li>Access restrictions to cultural sites.</li> <li>Limited health care services for under-insured.</li> </ul>

*SI Significant impact*

*SI-M Significant impact mitigable to less than significant*

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## Preparing Effective Comments



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## How to Write Effective DEIS Comments



- Submit and be heard
- Be specific
- Cite information you are questioning
- State what you would like addressed
- Suggest action changes and mitigations to avoid or reduce impacts
- Can ask for:
  - Clarification of a statement, impact, mitigation
  - Can challenge a statement, impact, mitigation, but be specific in why you feel challenge is appropriate

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## Comment Guidance

- Opinions and broad statements
- Descriptive comments
- Focused comments
- Constructive comments (solution-based)

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Comment Sheet GUAM AND CNMI MILITARY RELOCATION DRAFT EIS / OEIS

The Governor's Office encourages interested residents to provide comments on the environmental document prepared for the analysis of the proposed military buildup. Your comments, as well as those being prepared by GovGuam, will ensure that decision makers are fully aware of our concerns relative to the proposed buildup. Comment forms, or your own letter, will be accepted at the Guam workshops, the public hearings sponsored by the Joint Guam Program Office (JGPO), or may be mailed to: JGPO, c/o NAVFAC Pacific, 358 Makalapa Drive Suite 101, Pearl Harbor, HI 96860-3134, Attention: CAMPO. You can also visit [www.guambuildup.guam](http://www.guambuildup.guam) to comment. Comments must be postmarked by February 03, 2010. Copies of the Draft EIS/OEIS are available for review at Nieves M. Flores Memorial Public Library, University of Guam Robert F. Kennedy Memorial Library, Joeten Kiya Public Library, Northern Marianas College Olimpio T. Borja Memorial Library, and the Tinian Public Library. A DoN sponsored reading room has also been set up at Agaña Shopping Center for Draft EIS/OEIS review.

Please provide your comments below:

The military should not impact any cultural sites.

Final EIS response...

Comment noted.

## Comment Guidance

- Opinions and broad statements
- Descriptive comments**
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- Constructive comments (solution-based)

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Please provide your comments below:

The military should not impact the Pagat cultural site related to operation of the firing range.

Please print clearly. Comments must be postmarked by February 17, 2010.

## Comment Guidance

- Opinions and broad statements
- Descriptive comments
- Focused comments**
- Constructive comments (solution-based)

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Please provide your comments below:

The Pagat site is critical to our heritage. We need the ability to access this site on a monthly basis in a peaceful setting. Mitigations or changes in the action are needed by the military to ensure our heritage is preserved.

Please print clearly. Comments must be postmarked by February 17, 2010.

## Comment Guidance

- Opinions and broad statements
- Descriptive comments
- Focused comments
- Constructive comments (solution-based)



SHAPING THE FUTURE ... TOGETHER  
Comment Sheet GUAM AND CNMI MILITARY RELOCATION DRAFT EIS / OEIS

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Please provide your comments below:

The Pagat site is critical to our heritage. The following mitigations or changes in the action are needed by the military to ensure our heritage is preserved.

- Trail to site needs to remain open <state when>
- Access needed one day each week
- No range impacts in this area to avoid <state what to avoid>

Please print clearly. Comments must be postmarked by February 17, 2010.

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## Comment Example



- Issue: Alternative A for the Proposed Firing Range will restrict public access off of Route 15 to a traditional cultural property, the Pagat site.**
  - Mitigation is stated that DOD may provide access.
- Questions you might have:**
  - Can we be guaranteed access to this site?
  - Will the cultural access be limited? If so, how?
  - Can a certain time period, for example the first weekend of every month, be designated as the time for cultural access to the site?

- **Issues: Noise from military operations**
  - Concern that the noise associated with aircraft and weapons firing is not well defined.
  
- **Questions you might have:**
  - When will the noise take place times of the day?
  - Will aircraft and helicopters fly over my location?
  - How frequently will the noise occur?
  - Are there any limitations that will be placed on noise generated from training activities?

- **Issues: Utilities**
  - Impact to the supply and cost of utilities
  
- **Questions you might have:**
  - When will the cost of my electric and water bills increase?
  - Will the distribution system be available in time to meet the demand and preclude brownouts or water rationing?
  - How frequently will I be impacted by disruption of services as they expand utilities?
  - Will the cost of solid waste collection increase?

- **Issue: Concerns that there will be an increase in crime from the military buildup.**
  - Mitigation is increased DoD preventative presence and community task force
- **Questions you might have:**
  - What if crime does go up?
  - Are there enough police, and how will they expand to protect the Guam public?
  - What if the DoD does not maintain a regular visible preventative presence?
  - How will DoD respond to a criminal offenses?

- **Issue: Proposed roadway improvements along Route 1 will lead to traffic congestion and travel delays during construction and impede access to beaches, trails, public parks and scenic vistas.**
- **Questions you might have:**
  - Can construction be limited to weekdays only?
  - How will I know when construction is occurring?
  - Will the construction prevent access to the recreational sites?

- **Issue: There is a projected shortfall of water during the construction that could result in outages and reduced water pressure.**
  - Mitigations discuss the DoD could transfer excess production from their system to the GWA if requested.
- **Questions you might have:**
  - What happens if water isn't transferred?
  - What if I don't have enough water?



## Information Stations



Shaping the Future...Together



## Public Comments



Mail to JGPO  
Postmark by Feb. 17, 2010

Submit tonight



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January 2010

## Purpose of the GovGuam Workshop



### ● Open house

- Facilitate public in effectively documenting their comments
- Four area stations are available to assist in answering questions on four topical areas:

Vol 2: Marine Corps Actions

Vol 4 / 5: Navy / Army

Vol 6: Related Actions

Vol. 7 / 9: Mitigation / SIAS

- ACT / GovGuam staff available to assist in room

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JOINT GUAM PROGRAM OFFICE

Environmental Impact Statement / Overseas Environmental Impact Statement



HOME ABOUT EIS/OEIS DOCUMENTS PUBLIC INVOLVEMENT SUBMIT A COMMENT ANNOUNCEMENTS PRESS CENTER

Welcome Message

Welcome to the Joint Guam Program Office's website on the Environmental Impact Statement/Overseas Environmental Impact Statement (EIS/OEIS) for the Guam and CNMI Military Relocation. This website has been created to share information with you as well as give you an opportunity to read the EIS and express your concerns by submitting comments. Your comments are an important part of the environmental planning process and you are encouraged to submit your comments online via this website, by mail, or by attending the public hearings. Comments must be submitted by February 17, 2010 in order to be considered in the Final EIS/OEIS.

Please note that the Notice of Availability published by the U.S. Environmental Protection Agency in the November 20, 2009 Federal Register shows the Draft EIS comment period ending on January 4, 2010. The [Navy Notice of Availability](#) and [Notice of Public Hearings](#), also published in the November 20, 2009 Federal Register, show the comment period ending on January 4, 2010.

Join the Discussion

Please click the button below to submit your comments.

SUBMIT A COMMENT ON THE DRAFT EIS

Explore the Document

Please click the button below to download the Executive Summary or the entire document.

EIS/OEIS DOCUMENTS

Tuesday, 19 January 2010

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New to Website

- DEIS Fact Sheets
- Workshop 1 Minutes
- EIS Workshops (January)
- PBS Now - 12/11/2009
- EIS Public Hearings

OneGuam Info

Questions?

Environmental Downloads DEIS Fact Sheets

The following links allow you to download each of the 10 Draft Environmental Impact Statement (EIS) Fact Sheets prepared by the ACT for the Governor's Office. The DEIS Fact Sheets provide a look at the key findings presented in each volume. The Fact Sheet materials presented in the DEIS.

Volume 8 covers additional items required by the National Environmental Policy Act (NEPA) that are administrative in nature (ie, not an analysis).

- Executive Summary
- Overview of Preferred Alternatives
- Volume 1: Overview of Actions and Alternatives
- Volume 2: Marine Corps Actions

General Resources

Media

Planning Downloads

Environmental Downloads

Fiscal Downloads

Videos

Fact Sheets prepared by the ACT for the Governor's Office provide a look at the key findings presented in the DEIS and are summarized since it is administrative in nature (ie, not an analysis).