



Naval Facilities Engineering Command, Pacific
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MILITARY RELOCATION TO GUAM AND CNMI PROGRAMMATIC AGREEMENT (PA) MEMO #2

Project: P-290 Design and Construction of Earth Covered Magazines and Ordnance Pads	Date: July 31, 2017 (review by September 14, 2017)
Project Location: Andersen Air Force Base, Guam	Prepared By: NAVFAC Pacific

PROJECT SUMMARY

This project proposes to construct twelve earth covered magazines and two ordnance pads. The project is identified in Appendix E of the *Programmatic Agreement among the Department of Defense, the Advisory Council on Historic Preservation, the Guam State Historic Preservation Officer, and the Commonwealth of the Northern Mariana Islands State Historic Preservation Officer Regarding the Military Relocation to the Islands of Guam and Tinian* (2011 PA). This Programmatic Agreement Memorandum (PA Memo) includes both design and construction phases of the project. Pursuant to Stipulation V.B., this PA Memo presents information to allow the State Historic Preservation Officer (SHPO) to provide comments on the DoD's assessment of effects and plan for addressing any such effects.

The P-290 earth covered magazines construction is in fulfillment of support facilities and infrastructure requirements identified for reduction of explosives safety risks from military munitions. Andersen Air Force Base is located within the village of Yigo. Project design works may include vegetation clearance, topographic and geotechnical work, and remediation efforts for Unexploded Ordnance/Munitions and Explosives of Concern. Project construction works include clearing and grubbing, sediment and erosion control measures, paving, installation of security fencing, concrete work, and electrical and mechanical utilities.

PROJECT LOCATION

The project plans to construct the earth covered magazines on Andersen Air Force Base, located on the Northern Plateau of Guam. Specifically, the project will occur at the Munitions Storage Area 1 (MSA 1) located south of Northwest Field. Figure 1 depicts the Area of Potential effects (APE) for this project. The area consists largely of secondary growth native limestone forest species on an undulating terrain. Some of the traditional Chamorro place names in this vicinity are Fafalog and Caiguat. The APE measures 20.35 hectares (50.3 acres).

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PROJECT DESCRIPTION

There are primary and supporting tasks associated with this project:

Primary Tasks

The project proposes to construct twelve earth covered magazines of reinforced concrete capable of storing a specified quantity of munitions, two partially covered ordnance pad with lightning protection, grounding system, and electrical service to function as an ammunition work and overhaul shop. The two ordnance pads will be concrete slabs-on-grade, partially covered with a roof overhang constructed of reinforced concrete roof slabs supported by reinforced concrete beams, columns and foundations.

Supporting Tasks

Project preparation would include vegetation clearing and grubbing, topographic and geotechnical work, temporary sediment and erosion controls, earthwork for earth berm construction, and sediment removal. In addition, the project would also require paving, road resurfacing, construction of concrete aprons, installation of security fencing and gates, landscaping and demolition. Infrastructure for electrical utilities includes primary and secondary distribution systems, transformers, and communication ductbanks. Mechanical utilities include foundation wall drains, shallow depressions and swales for storm water. The project work will also require soil testing, remediation, and mitigation for Unexploded Ordnance (UXO)/Munitions and Explosives of Concern (MEC).

IDENTIFICATION OF HISTORIC PROPERTIES

Scope of DoD Identification Efforts

In planning for the Undertaking, the Department of Defense (DoD) first conducted a data gap analysis to determine the need for supplemental identification and evaluation surveys and then conducted those surveys. In consultation with the Guam SHPO, Advisory Council on Historic Preservation (ACHP), National Park Service (NPS) and Concurring Parties to the 2011 Programmatic Agreement (2011 PA), the DoD has applied the results of those identification efforts to the siting/lay down of individual projects to avoid and minimize effects to historic properties to the extent practical. DoD has provided documentation of these efforts to the Signatories and Invited Signatories via Appendices D and E of the 2011 PA.

DoD surveys and evaluations have focused on project-specific APEs, defined consistent with 36 CFR §800.16(d) to include those portions of the island of Guam subject to direct and indirect effects of projects included in the Undertaking.

More specifically, the P-290 APE has been subject to one or more of the historic property identification efforts listed in 36 CFR §800.4(b)(1), which may include background research, consultation, oral history interviews, sample field investigation and field survey. As such, results

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of identification and evaluation efforts in the vicinity of, and including the P-290 APE can be found in the following original studies of cultural and/or historic resources:

2015 *Integrated Cultural Resource Management Plan, Andersen Air Force Base, Joint Region Marianas*, Prepared by SEARCH and Cardno-TEC through IDIQ Contract N62742-09-D-1960, Delivery Order JQ03, May 2015.

2015 *Final Supplemental Environmental Impact Statement: Guam and Commonwealth of the Northern Mariana Islands Military Relocation*, Prepared for Joint Guam Program Office, Washington, DC, by Naval Facilities Engineering Command Pacific, Pearl Harbor, Hawai'i

Athens, J.S.

2009 *Final Archaeological Surveys and Cultural Resources Studies on Guam and the Commonwealth of the Northern Mariana Islands in Support of the Joint Guam Build-Up Environmental Impact Statement Volume I: Guam*. Prepared by International Archaeological Research Institute, Inc. Honolulu, Hawai'i.

Davis, R.

1983 *Andersen Air Force Base Central Reconnaissance Survey*. Government of Guam Department of Parks and Recreation. MS on file at Andersen AFB, 36CVS/CVN, Guam.

DeFant, D. and R. Leon Guerrero

2006 *Archaeological Survey of Seven Parcels within the Munitions Storage Area, Andersen Air Force Base, Island of Guam*. Prepared for Department of the Navy, Pacific Division, Naval Facilities Engineering Command, Pearl Harbor, Hawaii.

Dixon, B. and S. Walker

2011 *Cultural Resource Investigations Conducted in the Territory of Guam Supporting the Joint Guam Build-Up Environmental Impact Statement: Final Archaeological Surveys on Guam 2009 at Proposed Utility Sites, Harmon Property, and Andersen AFB*. Prepared by for Naval Facilities Engineering Command, Pacific Division, by TEC Inc.

Hokanson, J., D. Kilby, M. Church, and R. McCurdy

2007 (GIS data labeled 2008) *Cultural Resources Survey for a Perimeter Fence and Portions of the Munitions Storage Area, Andersen Air Force Base, Guam*. Engineering-Environmental Management, Inc. Denver. Colorado.

Hunter-Anderson, R.

2003 *Final Report on a Cultural Resource Survey of the Proposed On-Base Water System at Andersen Air Force Base, Guam*. Prepared for MWH Americas, Inc. by Micronesian Archaeological Research Services. 16 July.

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Hunter-Anderson, R. and D. Moore

2003 *Cultural Resources Snake Barrier Concept, Andersen Air Force Base, Guam*. Micronesian Archaeological Research Services, Guam. May.

Mason Architects, Inc.

2004 *Historic Building and Associated Landscape/Viewsheds Inventory and Evaluation for Andersen Air Force Base, Guam*, 2004 Update. Prepared for Andersen Air Force Base, Guam, by Mason Architects, Inc., Honolulu.

Mohlman, G.

2015 (GIS data labeled 2013) *Final Report Historic Inventory Survey Andersen Air Force Base, Territory of Guam*. Prepared for NAVFAC Marianas by Southeastern Archaeological Research, Inc. March.

Welch, D.

2010 *Final Archaeological Surveys and Cultural Resources Studies Conducted in 2007 on the Island of Guam in Support of the Joint Guam Build-Up Environmental Impact Statement; Volume I: Narrative and Volume II: Site Descriptions*. Prepared for Department of the Navy, Naval Facilities Engineering Command, Pacific, Pearl Harbor, Hawai'i under Contract N62742-06-D-1870, Task Order 10 to TEC, Inc. Joint Venture.

Yee, S.L., D.J. Welch, and J. Allen

2004 *Archaeological Overview Survey Report for Andersen Air Force Base, Guam*. Prepared for Earth Tech, Inc., Honolulu, and 36 CES/CEVN, Andersen Air Force Base, Guam by International Archaeological Research Institute, Inc., Honolulu, HI.

Results of the above identification efforts indicate that there are several historic properties in the vicinity of the APE. In PA Memo #1, the DoD determined two historic properties were located within the P-290 APE:

Site T-9-1 (temporary number) is a Latte Period artifact scatter containing ceramics and lithics. The site measures approximately 20 meters (m) (65.6 feet (ft)) long by 15 m (49.2 ft) wide with an irregular shape, oriented roughly northwest/southeast. Although the site is listed in poor condition, it is eligible for listing in the National Register of Historic Places under criterion D.

Site T-9-2 (temporary number) is an artifact scatter with both Latte Period and Second American Administration Territorial components. The site measures approximately 30 m (98.4 ft) long by 10 m wide. In addition, 1944 and 1946 air photos indicate a farmstead (*lancho*) was located in this area, as evidenced by vegetation present. Although the site exhibits partial disturbance from mechanical equipment (push pile) and is listed in poor condition, it is eligible for listing in the

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National Register of Historic Places under criterion D.

Other historic properties, T-15-1 and PN-06, are in close proximity to the APE. However, both properties T-15-1 and PN-06 will not be affected by the proposed project.

RESPONSE TO COMMENTS

In accordance with Stipulation V.B.2.b. of the 2011 PA, the Navy has taken into account comments received within 45 days. Comments were received from the Guam SHPO by letter (RC 2017-0506 dated May 19, 2017). Guam SHPO's comments are presented below with the DoD's response italicized:

1) We have reviewed you Section 106 request on the subject undertaking and concur with your determination of "Adverse Effect". The project will have adverse effect on two historic properties (T-9-1 and T-9-2) which are both eligible for listing in the National Register of Historic Places. We look forward to PA Memo #2 to resolve the adverse effects.

Thank you for your review of PA Memo #1 and for your comments regarding adverse effects on historic properties T-9-1 and T-9-2. The DoD has imposed conditions pursuant to 36 CFR §800.5(b) and determined that the project will have no adverse effect to the two historic properties (T-9-1 and T-9-2) within the APE. The conditions imposed are presented in the following section.

DETERMINATION OF EFFECT

The DoD originally found that the overall project would have an adverse effect on two historic properties (T-9-1 and T-9-2), and included that determination in PA Memo #1. While design studies such as topographic and geotechnical studies would not have an effect on historic properties, the construction phase of the project would have caused adverse effects.

Accounting for multiple factors, including historic properties, planners adjusted the layout of the earth covered magazines avoiding historic properties T-9-1 and T-9-2. In accordance with Stipulation VI.F. of the 2011 PA, the DoD has retained a full-time archaeologist to provide site checks, oversee coordination and execution of the archaeological mitigation measures in the PA and to provide quality control. This individual is on-staff at NAVFAC Marianas and has also been tasked with supporting Command Joint Region Marianas (CJRM) in responding to and reporting of any inadvertent discoveries to the Signatories, Invited Signatories, and Concurring Parties pursuant to Stipulation XII. To safeguard the properties during project activities, the archaeologist will apply visual buffers around each site until the completion of the project. As an additional precaution, the archaeologist will conduct site checks. All contractors involved with the project will also receive cultural resources awareness training pursuant to Stipulation VI.D.1 of the 2011 PA.

Considering the conditions imposed on this project in accordance with 36 CFR §800.5(b), the DoD

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has determined that this project will have no adverse effects on historic properties, as it will not alter the characteristics of the properties that qualify them for inclusion in the National Register of Historic Places pursuant to 36 *CFR* §800.5(a)(1).



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FIGURE 1

**AAFB
Munitions
Operations
& Storage**

Andersen AFB

**P-290 ECMs
(Earth Covered Magazines)
Figure - 1**

-  DoD Property
-  P-290 Area of Potential Effects (APE)



PREPARED BY:
Naval Facilities Engineering Command Pacific
Date: 4/12/2017



Coordinate System: UTM Zone 55 North
Projection: Transverse Mercator
Datum: D WGS 84

P-290 APE = 20.35 hectares (50.3 acres)



Military Relocation PA Memo Comment Form

2017

If submitting via e-mail, please click link and include all required information: criwebcomment@navy.mil

If submitting via postal mail, send to:

Attn: CRI Web Comments
Code EV23, NAVFAC Pacific
258 Makalapa Drive, Suite 100
JBPHH, Hawaii 96860-3134

Submitted comments will be posted on the Navy's Cultural Resources Information (CRI) web site. Information presented on the CRI web site is considered public. The sections highlighted in red are required.

Privacy Act Statement

Personal information will only be used to contact you regarding the comments you submit. This information will only be shared with another government agency if your inquiry relates to that agency, or as otherwise required by law. We will not create individual profiles or give your information to any private organization. While you must provide a valid e-mail address or postal address, please **DO NOT** include personally identifying information such as a social security number.

By submitting this comment form, you agree not to include content that is offensive in nature, such as profanity, personal attacks on individuals, and racist or abusive language.

PROJECT: P-290 Design and Construction of Earth Covered Magazines and Ordnance Pads

SUBJECT: PA Memo #2

Date:

Name:

CRI User Name (if you don't want your real name to be posted on the CRI web site):

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or

Postal Mail Address:

COMMENTS:

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