



Naval Facilities Engineering Command, Pacific
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MILITARY RELOCATION TO GUAM AND CNMI PROGRAMMATIC AGREEMENT (PA) MEMO #1

Project: P-102 Harmon Power Upgrade	Date: November 14, 2014
Project Location: Harmon Substation to AAFB Main Station within Existing Easements, Routes 3, 3A and 9 Right of Ways	Prepared By: NAVFAC Pacific
PROJECT SUMMARY	
<p>This project proposes construction and associated efforts for the Harmon Power Upgrade between the existing Harmon Substation located near the intersection of Routes 1 and 3 to the main station at Andersen Air Force Base (AAFB), primarily within existing easements and right of ways along Routes 3, 3A and 9. Although located within what is today known as the villages or municipalities of Dededo and Yigo, the pre-World War II names for the areas within or closest to the area of potential effects (APE) include Ukudu, Taguac, Haputo, Finaguayac, Astobias and Chaguian.</p>	
<p>The requirement for utilities upgrades to existing Guam infrastructure was identified in the 2010 Final EIS (FEIS) for the military relocation to Guam and CNMI and Appendix E of the 2011 <i>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 Relocation to the Islands of Guam and Tinian</i> (the Undertaking). Accordingly, as per Stipulation V.B., this PA Memo presents information to allow interested members of the public to provide comments on the DoD's identification and evaluation of historic properties within the project's area of potential effect (APE), as well as the DoD's determination of effect.</p>	
PROJECT LOCATION	
<p>The project APE for military construction project (MILCON) P-102 is a 25 foot wide path along an existing easement between the Harmon Substation to and along the western edge of Route 3, which crosses Route 3A twice at Potts Junction and continues through a utilities corridor along Route 9 to the AAFB main station (Figure 1). The project area is situated on the limestone plateau above the western cliffs of northern Guam. The plateau, which rises from 120 to 150 meters (400 to 500 feet) above mean sea level is relatively flat, although there are localized raised and depressed areas caused by differential solution of the limestone bedrock below the soil layer.</p>	
<p>The total APE for P-102 is 25.45 hectares (62.9 acres).</p>	

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PROJECT DESCRIPTION

MILCON P-102 centers upon the installation of a new 34.5 kV (kilovolt) electrical transmission line to increase the capacity and reliability of the existing electrical utility infrastructure required due to increased personnel, facilities, and operations associated with the relocation of US Marine Corps (USMC) ground and aviation unit personnel and activities from Okinawa to the Naval Communications Telecommunication Station (NCTS) at Finegayan and Air Combat Element (ACE) area at AAFB. The transmission line will be encased in new pre-cast utility vaults and concrete duct banks located between the Harmon Substation and a future North Finegayan Substation, and between the future North Finegayan Substation and AAFB Main Station. The installation of a temporary construction fence, aluminum cables, fiber optic cable, circuit breakers, associated protective devices, terminations, and splices of cables, conduit and several manholes along the route between Harmon and AAFB will also be required.

Prior to installation of the transmission line, clearing and grubbing of vegetation to facilitate access to the project site, grading, munitions and explosives of concern (MEC) clearance and intrusive design studies such as geotechnical boring and placement of survey markers (wooden stake hubs and/or rebar) for topography support will be required. Generally, geotechnical work entails drilling borings with a truck-mounted drill rig using 8-inch diameter augers or pipe casing with water or air rotary drilling. Boring lengths/depths vary but for the proposed project, may range from five to 50 feet. Additionally, backhoe test pits up to three feet wide and 12 feet long may be excavated in some areas to depths ranging from three to eight feet. Samples of subsurface soil/rock materials are collected from borings and test pits for laboratory analyses. After completion of sampling, borings are filled with grout and test pits are backfilled with the leftover excavated material.

Project works will also include earthwork such as trenching, horizontal directional drilling, micro-tunneling and/or cut and fill, processing and stockpiling of green waste and erosion and sediment control and site improvements such as paving, landscaping and where necessary, restoration of roadways, sidewalks, curbs and gutters, and traffic signs.

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.

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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 and Tinian subject to direct and indirect effects of projects included in the Undertaking, based on the July 2010 Final Environmental Impact Statement (FEIS) for the Guam and CNMI Military Relocation.

In addition to the archaeological and architectural surveys and evaluations, DoD has completed extensive archival research and oral history studies and interviews to identify traditional cultural properties, places, sacred sites, and culturally important natural resources such as the *nunu*, *da'ok*, *dokdok*, and *ifit* trees, and medicinal plants.

More specifically, the P-102 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 of identification and evaluation efforts for the P-102 APE can be found in the following original studies of cultural and/or historic resources.

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, HI.

Davis, R.

1983 *Andersen Air Force Base Central Compound Reconnaissance Survey*. Letter report prepared by Department of Parks and Recreation, Government of Guam, Agana.

DeFant, David

2013 *Final Report Cultural Survey at Five Sites, Joint Region Marianas, Guam*. Prepared by Prepared by the Naval Facilities Engineering Command, Pacific by Southeastern Archaeological Research, Inc.

Dixon, Boyd and S. Walker

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

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Dixon, Boyd, S. Walker and R. Schaefer

2011 *Final Report Cultural Resource Investigations Conducted in the Territory of Guam Supporting the Joint Guam Build-Up Environmental Impact Statement: Final Archaeological Surveys on Guam 2010 on Andersen AFB.* Prepared by the Naval Facilities Engineering Command, Pacific Division, by TEC Inc.

Dixon, Boyd, et al.

2014 *Draft Proposed Guam and CNMI Military Relocation 2012 Roadmap Adjustments SEIS Live-Fire Training Range Complex Range Footprints, Main Cantonment, Utilities, Communications, Well Field Alternatives and Access Route Options Volume I: Potential Direct Impact Area In-Fill Cultural Resources Study Narrative.* Prepared for Joint Guam Program Office Washington, D.C. under Contract Number N62742-11-D-1801 Delivery Order No: 007 to TEC, Inc., Honolulu, Hawaii.

Kurashina, H., D. Wooster, T. McGrath, and J. Toenjes

1988 *Archaeological Investigations of the Route 3 Road Corridor, Territory of Guam, Mariana Islands.* Prepared for Juan C. Tonorio and Associates, Inc., Agana, Guam.

Tuggle, H.D.

1993 *Small and Developed Parcel Survey Areas.* Pages 35-42 in *The Archaeology of Orote Peninsula: Phase I and II Archaeological Survey of Areas Proposed for Projects to Accommodate Relocation of Navy Activities from the Philippines to Guam, Mariana Islands.* Prepared for Belt Collins and Associates by International Archaeological Research Institute, Inc., Honolulu, HI.

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, Hawaii under Contract N62742-06-D-1870, Task Order 10 to TEC, Inc.

Yee, Sandra L., David J. Welch and Jane Allen

2004 *Final Archaeological Overview Survey Report for Andersen Air Force Base, Guam.* Prepared by International Archaeological Research Institute, Inc. under Contract F41624-01-D-8597 /0061 to Earth TEC, Inc., Colton, CA.

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Yoklavich, A., J. Craib, and P. Drolet

1996 *Final Report: Cultural Resource Management Overview Survey, Andersen Air Force Base, Mariana Islands, Territory of Guam*. Prepared for Department of the Navy, Pacific Division, Facilities Engineering Command under Contract N62742-91-D-0507, Delivery Order No. 0005 to Ogden Environmental and Energy Services Co., Inc., Honolulu, HI.

Results of the above studies indicate an absence of historic properties within the P-102 APE.

DETERMINATION OF ELIGIBILITY

Pending input from consulting parties and the public, the DoD has determined there are no cultural resources within the MILCON P-102 APE that are eligible for listing in the National Register of Historic Places.

DETERMINATION OF EFFECT

The DoD's determination of effect for MILCON P-102 is no historic properties affected.

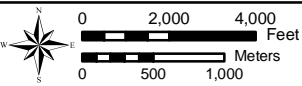
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Figure 1
P-102 Harmon Power Upgrade

- DoD Property
- P-102 Harmon Power Upgrade (2014)

P-102 Impact Area = 62.9 Ac



PREPARED BY:
Naval Facilities Engineering Command
Marianas - Date: 10/15/2014



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

