

**NEPA Action EA/EIS
Publication Form**

Project Name: KAENA POINT SATELLITE TRACKING STATION, BUILDING 39005 UPGRADES
SECTION 106 CONSULTATION

Island: OAHU

District: Wai'anae and North Shore

TMK: (1) 6900-3005

Permits: N/A

Applicant or Proposing

Agency: United States Air Force (USAF), Kaena Point Satellite Tracking Station
PO Box 868, Waianae, HI 96792
Contact & Phone: Mr. Lance Hayashi, (808) 697-4314

Approving

Agency: USAF, Kaena Point STS
Contact & Phone: Mr. Lance Hayashi, (808) 697-4314

Consultant: N/A

Status: Comments due no later than August 22, 2013 to
Mr. Lance Hayashi, Det 3, 21 SOPS/CE
PO Box 868
Waianae, HI 96792-0868
(808) 697-4314

Summary:

The US Air Force (USAF), Detachment 3, 21st Space Operations Squadron (Det 3, 21 SOPS) proposes to decommission the Building 39005 antenna core facilities at Kaena Point Satellite Tracking Station, and install an upgraded antenna core. The undertaking would reuse the existing building and legacy 60-foot dish antenna, resulting in minor alterations to the facility.

The proposed undertaking includes alteration for reuse of Building 39005, a Cold War-era antenna facility, including removal of the core electronics; the legacy antenna would remain in place. The facility is less than 50 years old and is similar to other existing USAF satellite tracking assets. Modifications to Building 39005 would require several exterior wall penetrations. Based on the Hawaii State Historic Preservation Division (SHPD)'s December 2010 Section 106 concurrence letter with the USAF's determination of "no adverse effect" for demolition of this building, and the completed Historic American Engineering Record (HAER) Level II that included Building 39005, KPSTS has requested SHPD's concurrence with its conclusion that alteration for reuse of Building 39005 and its the antenna facility will have "no adverse effect" on historic properties.

This document will also be available for review at the Waianae Public Library and the Waiialua Public Library during the review period ending August 22, 2013.

KAENA POINT SATELLITE TRACKING STATION (Proponent)
ANTENNA REMOTE BLOCK CHANGE UPGRADE AT BUILDING 39005
NATIONAL HISTORIC PRESERVATION ACT COMPLIANCE REQUEST
FOR SECTION 106 REVIEW AND CONCURRENCE

Attachment 1

SECTION I (Information from Proponent of Undertaking)

- A. **TITLE OF UNDERTAKING:** Building 39005, Decommission of Antenna Core and Remote Block Change (RBC) Upgrade at Kaena Point Satellite Tracking Station (KPSTS)
- B. **PROPOSED START DATE:** August 01, 2013
- C. **LOCATION:** The project site is located at Kaena Point Satellite Tracking Station (KPSTS), as depicted in Attachment 2.
- D. **DESCRIPTION OF PROPOSED UNDERTAKING:** The US Air Force (USAF), Detachment 3, 21st Space Operations Squadron (Det 3, 21 SOPS) proposes to decommission the antenna core facilities in Building 39005 (Attachments 3 & 4) and install the RBC upgrade to replace the outdated core equipment with electronic systems interoperable with newer satellite systems. The undertaking would reuse the existing building and legacy 60-foot dish antenna, resulting in alterations to the facilities.

Under this Proposed Action (PA), the legacy (existing) Automated Remote Tracking Station (ARTS) core electronics and associated equipment, e.g., cabling, ceiling cable tray, waveguide, equipment racks etc. will be removed from Building 39005, Rooms 102, 106 and 107, also several electrical panels and the antenna gear boxes will be upgraded or removed and replaced. (Attachment 4 & 5)

After the affected electronics and equipment are removed, the remaining legacy equipment and facility will be renovated/ modified to support the RBC upgrade. Modifications to Building 39005 will include upgrading the electronics system for the antenna and running Inter-Facility Link (IFL) cable conveyances, which will require several wall penetrations be made to Building 39005 as illustrated in Attachment 6.

SECTION II (Information from the Environmental Planning Office)

A. IDENTIFY HISTORIC RESOURCES

1. ARCHITECTURAL FEATURES

Building 39005 is a large radome built in 1968 (Attachment 3).

Although less than 50 years old, Building 39005 is associated with the KPSTS satellite tracking mission that began in the early 1960s and has significance related to Cold War activities. In May 2012, Det 3, 21 SOPS determined that the facility was eligible for nomination to the National Register of Historic Places (Criterion A) and received concurrence from the Hawaii State Historic Preservation Division (SHPD) (SHPD, 2012).

Det 3, 21 SOPS in 2012 completed a Section 106 consultation that resulted in a recommendation by the SHPD to complete a Historic American Engineering Record, Level II (HAER Level II) documentation for Building 39005 (USAF, 2012). In May 2013, the HAER Level II was

completed to document the facility and its role in KPSTS' history and submitted to the SHPD and to the National Park Service.

2. ARCHAEOLOGICAL FEATURES

Based on documented research (Garcia and Associates, 2010) there are no known archaeological sites in the proposed project areas. However, if human remains or other archaeological materials are inadvertently discovered during ground disturbance, work in the vicinity of the discovery will stop and the contractors and KPSTS personnel will take measures to help secure any remains, archaeological materials, and associated context. If the remains are determined likely to be of native Hawaiian origin, the Office of Hawaiian Affairs, the Oahu Island Burial Council, Hui Malama I Na Kupuna O Hawaii Nei, and interested parties will be notified and requested to consult in accordance with the Native American Graves Protection and Repatriation Act. Similarly, if any archaeological sites are inadvertently discovered, then the SHPD will be notified and consulted.

3. TRADITIONAL RESOURCES

Kaena Point is particularly well known as a Hawaiian *leina a ka 'uhane*, or 'leaping place of the spirit.' This cultural use, however, is traditionally understood to have occurred at the westernmost tip of Oahu Island, several kilometers from the proposed project areas. Although the ahupua'a of Kaena and Keawaula are rich in traditional history, there are no known traditional cultural places within the proposed project areas. A complete review of traditional Hawaiian histories and legendary accounts in the area can be found in the *Cultural Resource Assessment and Impact Analysis for Kaena Point Satellite Tracking Station (KPSTS) Construction* (Garcia & Associates, 2010).

B. DETERMINE POTENTIAL EFFECT

It is the opinion of Detachment 3, 21 SOPS that, pursuant to 36 Code of Federal Regulations (CFR) §800.4(d)(1), the proposed project will have "no adverse effect" on archaeological resources or other native Hawaiian cultural resources based on the information gathered from archival documents, old maps, and recent archaeological investigations.

The proposed project includes alteration for reuse of Building 39005 a Cold War-era antenna facility. The facility is less than 50 years old and is similar to other existing USAF satellite tracking assets. Based on SHPD's December 2010 Section 106 concurrence letter with the USAF's determination of "no adverse effect" for demolition of this building, and the completed HAER Level II that included Building 39005, KPSTS considers the alteration for reuse of the antenna facility to have "no adverse effect" on historic properties.

SECTION III Contact Information

For further information, please contact Mr. Lance Hayashi by telephone at 697-4314, or via email to linda.cruz@us.af.mil.

SECTION IV References

Garcia and Associates, 2010. *Cultural Resource Assessment and Impact Analysis for Kaena Point Satellite Tracking Station (KPSTS) Construction*. January.

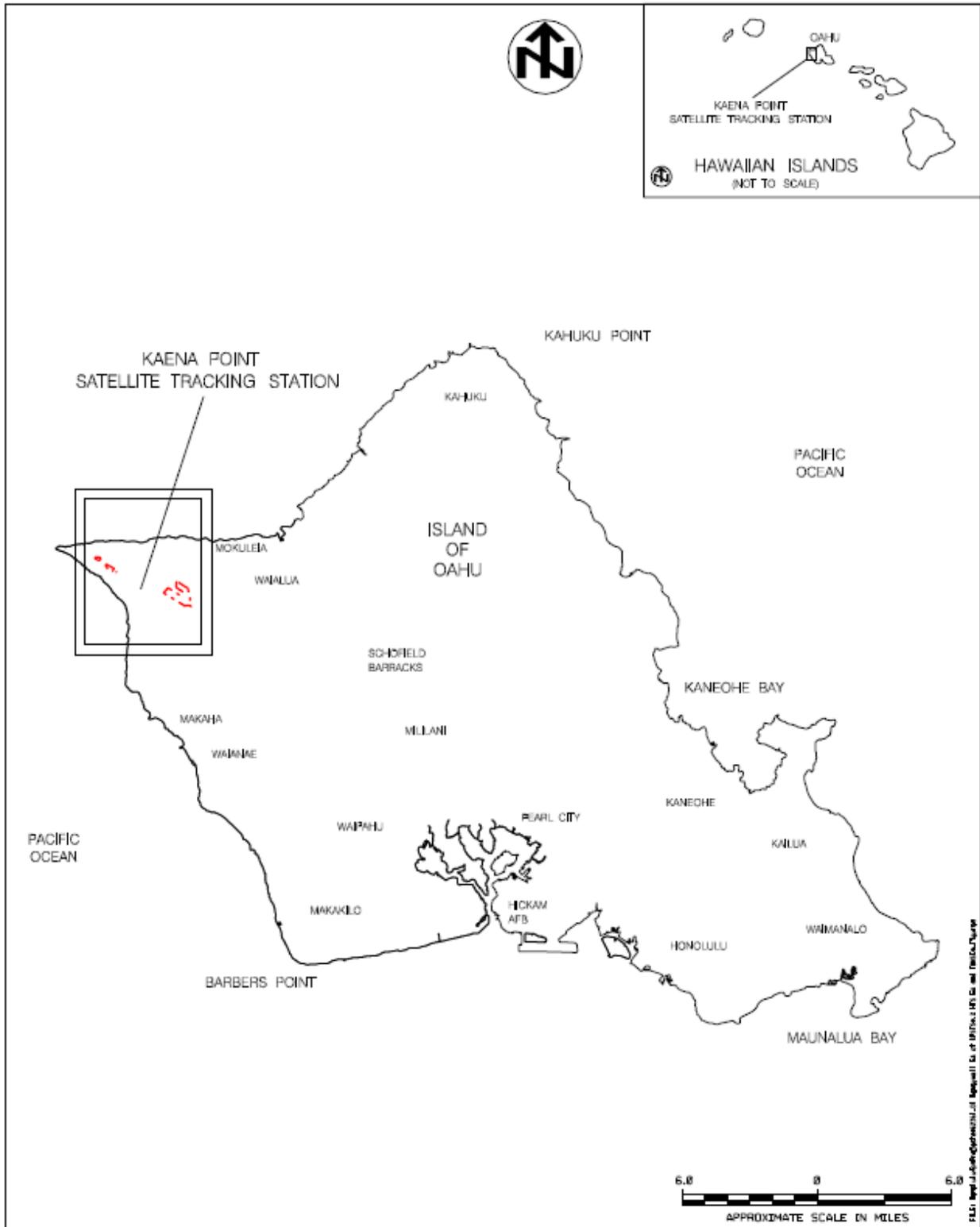
State of Hawaii, Historic Preservation Division (SHPD). 2012. *National Historic Preservation Act (NHPA) Section 106 Review*. May.

U.S. Air Force (USAF). 1993. *Interim Guidance for Treatment of Cold War Resources*. USAF/CE. June.

USAF, Detachment 3, 21st Space Operations Squadron (Det 3, 21 SOPS), 2012. *Determination of Eligibility for Historic and Cold War Era Evaluation and Survey at Kaena Point Satellite Tracking Station*. March.

USAF Det 3, 21 SOPS, 2013. *Historic American Engineering Record for Historic and Cold War Era Evaluation and Survey at Ka'Ena Point Satellite Tracking Station*. April

Attachment 2: Location of Kaena Point Satellite Tracking Station, Oahu, HI

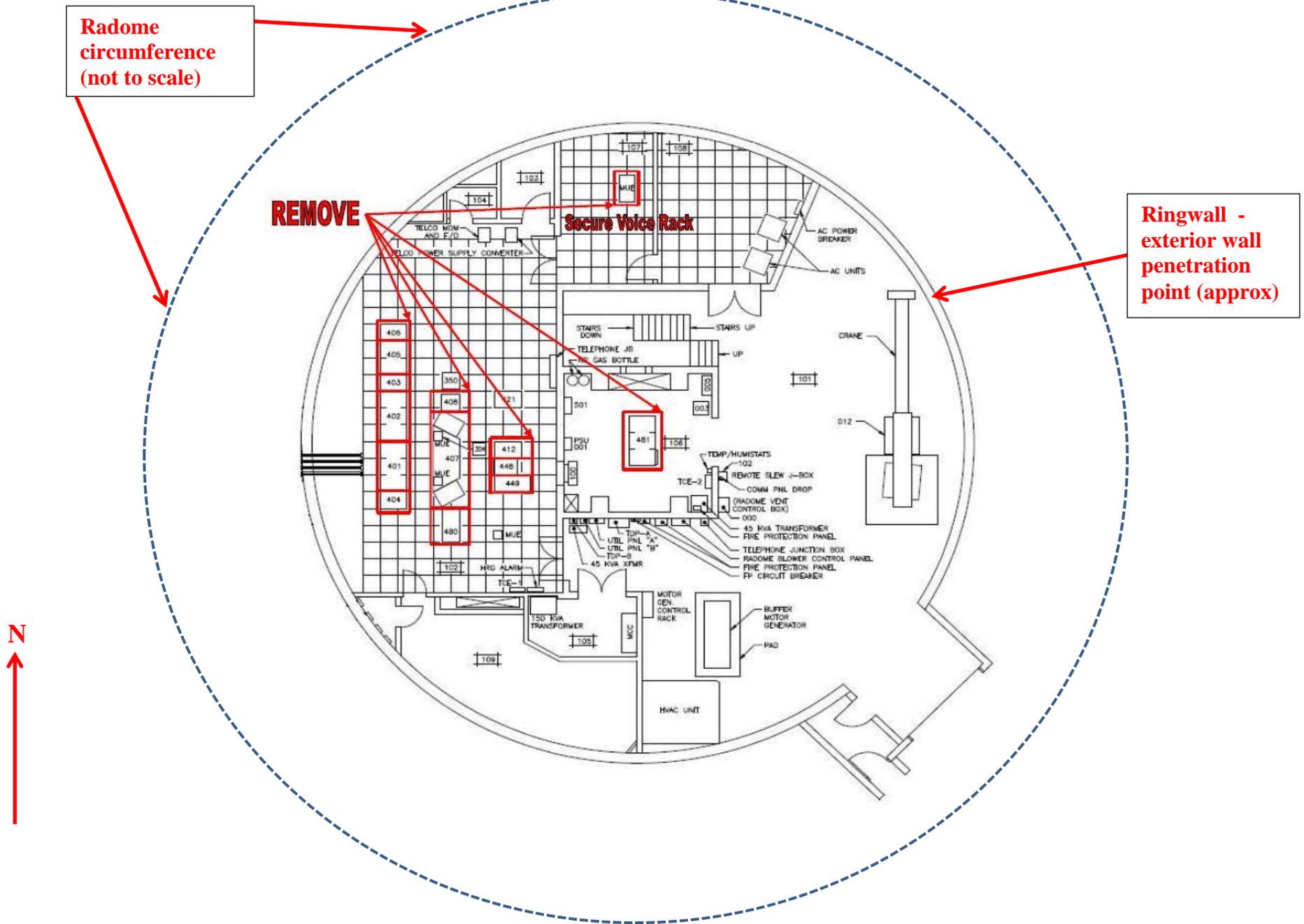


Attachment 3: Building 39005, Legacy HTS A-Side Antenna Facility



Building 39005, view to southwest

Attachment 4: Building 39005, Room 102 (Operations), 106 (HPA) and 107 (Secure Voice)

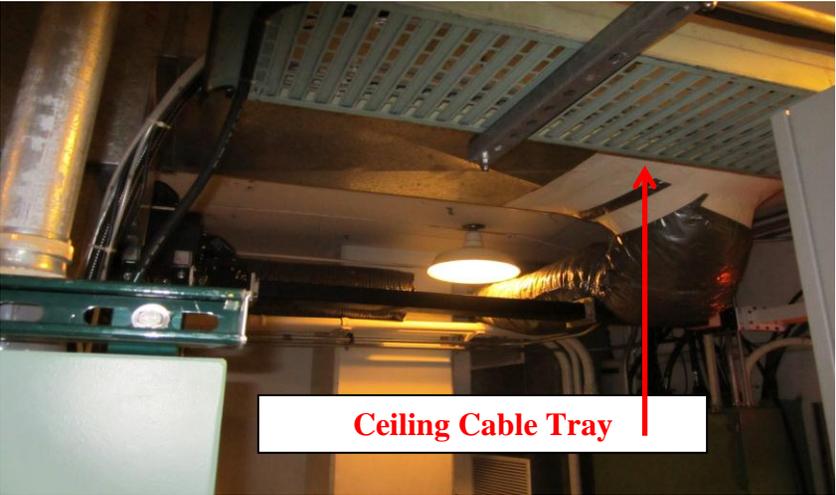


Attachment 5: Decommission Electronic Core Racks (Rm 102 & 107), Ceiling waveguide and Cable Tray (Rm 106)

Electronic Core Racks



Ceiling waveguide



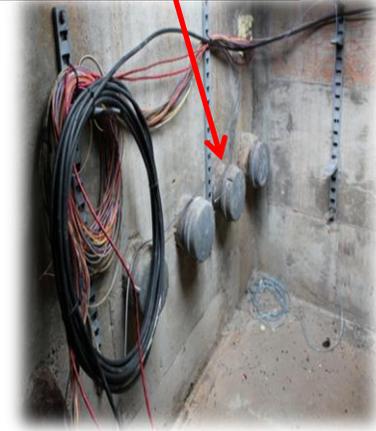
Ceiling Cable Tray

Attachment 6: Modifications to Building 39005

Ringwall penetration points: exterior and interior



Communications Manhole exterior (left), interior (right)



Under-floor IFL conveyance penetration Rm 108



IFL conveyance will extend under floor beginning at Room 108, through Room 107 to Room 102 where the core electronics and antenna high-powered amplifiers (HPAs) will be installed



Wall penetration to be made for the waveguide connection between the antenna and the core electronics / HPA to be located in adjacent Room 102