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A. R. MARCY  
Colonel, Signal Corps.  
Department of Defense

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ARMY PEARL HARBOR BOARD EXHIBIT No. 57

HEADQUARTERS UNITED STATES ARMY FORCES,  
PACIFIC OCEAN AREAS,  
OFFICE OF THE SIGNAL OFFICER,  
APO 958, 14 September 1944.

Memorandum to: Major General Walter H. Frank,  
Army Pearl Harbor Board  
Courts Martial Building, 70-B  
HUSAFPOA, APO 958

1. The attached memorandum, prepared in the Office of the Signal Officer, Central Pacific Base Command, contains all the information presently available concerning the arrival of temporary and permanent air warning radar equipment at the Hawaiian Islands prior to 7 December 1941.

2. Search for records to obtain additional information is continuing and will be furnished if, or as soon as, it becomes available.

A. R. Marcy,  
A. R. MARCY,  
Colonel, Signal Corps.,  
Actg. Signal Officer.

1 Incl:  
Memo to Engineers dtd 12  
Sept 44, subj: AWS Equip-  
ment, w/5 Incls.

12 SEPTEMBER 1944.

Memo to: Major Hollensworth, Engineers.  
Subject: AWS Equipment.

1. In reference to our informal conversation concerning the receipt of an release of AWS equipment to the Engineers before December 7, 1941, the following information is forwarded:

a. Receipt of AWS Fixed Station Detector Equipment by Signal Corps in Hawaii. (Following information taken from stock record cards of the AWS)

(1) Power Units:

(a) Five each received 3 June 1941, on DV-3

(b) Four each received 20 August 1941, on DV-31-42

(2) Detector Stations and Component Parts:

(a) Two each SCR-271 (Serial #1 & #2) received 3 June 1941, on DV-4. Components consisted of: Operating Equipment Assembly, per SCL; Secret Drawing ES-D-6682-C less items 1-6 inclusive, 16-19 inclusive, 21, 22, 24, 25 and SCL Secret Drawing ES-D6683 less items 2, 5, and 6, except item 3 is per SCL Drawing ES-O7324. Conduit and Conduit Fittings, per SCL Secret Drawing ES-D7129. Grounding Equipment, per SCL Secret Drawing ES-D7131. Wiring Supplies, per Bill of Material #2. Fuses (12 per set).

- (b) One each SCR-271A (Serial #1) received 3 June 1941, on DV-5. Component parts consisted of: Operating Equipment Assembly, per SCL Secret Drawing ES-D-7335-A less items 1-6 inclusive, 16-19 inclusive, 21, 23, 26, 27 & SCL Secret Drawing ES-D-7336 less items 2, 5, & 6. Feed line Chute Assembly, Part #2, per SCL Secret Drawing ES-D7334, Azimuth Indicator M-216, per Signal Corps Laboratories Model Conduit and Conduit Fittings, per SCL Secret Drawings ES-D7327 and ES-D7129, less items 9, 10, & 11. Grounding Equipment, per SCL Secret Drawings ES-D7131. Wiring Supplies, per attached Bill of Material number 1. Fuses (12 per set).
- (3) Tower and Buildings, 36 ft. (for Mt. Kaala and Haleakala)
- (a) Two each received, 29 August 1941, on DV-50-42
- (4) Tower, 100 ft., Transmitter Building (for Kokee)
- (a) Tower received 29 August 1941, on DV-50-42
- (b) Transmitter Building received 29 August 1941, on DV-50-42
- (5) Tanks, gasoline or fuel storage and so forth:
- (a) Six each received 7 July 1941, on DV-1-42.
- (6) Communications:
- (a) No definite information available at this time.
- b. Receipt of AWS Mobile Equipment by Signal Corps in Hawaii.
- (1) Six mobile detector sets were shipped by rail from New Jersey 22 July 1941, and arrived in Hawaii sometime during the first part of August. Temporary locations for these sets on Oahu was proposed the 14 August 1941, and approved on the 15th. (see Inclosure d and e)
- c. AWS Equipment Released to Engineers.
- (1) Definite information on the release of AWS equipment to the Engineers is not available at this time. The following information which has some bearing on the subject is listed below:
- (a) *Kokee, Kauai*: Tower, gasoline tanks, and building material shipped to Port Allen the 17 September 1941. (see Inclosure #a)
- (b) *Haleakala, Maui*: Necessary metal buildings and towers have been shipped to Haleakala, Maui (This statement was made in a letter dated September 23, 1941). (see Inclosure #b).
- (c) *Mt Kaala, Oahu*: No work could be done on the Kaala Detector installation until the cableway was completed. On 21 February 1942, the estimated completion time of the Mt. Kaala cableway was five weeks. (see Inclosure #c).
- d. Communications equipment was installed by Signal Corps personnel. This was dependent upon the completion of the necessary buildings.
2. Search continues for additional information which will be forwarded when located. Inclosures concerning part 1a will be forwarded 13 September.

ALLEN W. SMITH,  
Colonel, Signal Corps,  
Signal Officer.

5 Inclosures:

- Incl A, Radio dated 17 Sept 1941, To: Govt WD, Maccasland, US Engineers Waimea, From: US Engr. Office, Alexander Yound Bldg.
- Incl B, Memo dated 21 Feb 1942, To: Col. Powell, From: Mr. Duncan.
- Incl C, (1) Memo dtd 8 Sept 1941 Eng 676.3 To: Dist Engr., From: R. J. Fleming, Maj., GSC (2) Ltr dtd 23 Sept 1941 To: Dept Engr. HHD Ft. Shafter. From: Dist. Engr. (3) Ltr dtd 23 Sept 1941 File #ND 676.3, AWS Mobile (9/8/41) Subj: Mobile Station, Kauai & Maui.
- Incl D, R/S pages 1, 2, & 3. Subj: Proposed Installation of six mobile RDF Units on the Island of Oahu.
- Incl E, Ltr. dtd 23 July 1941 File: FM (SCL) Proj 12-8, Subj: Shipment of Equipment. To: CO, HSD Ft. Shafter. From: SCL, Fort Monmouth.

## Inclosure A

[Telegram—Official Business—Government Rates]

Standard Form No. 14A  
Approved by the President  
March 10, 1926

From: War Department  
Bureau: U. S. Engineer Office, Alexander Young Building, Honolulu, T. H.

SEPTEMBER 17, 1941.

GOVT WD  
MACCASLAND  
U. S. ENGINEERS  
WAIMEA, KAUAI

Following items being shipped to Port Allen via I I steamer leaving Honolulu September seventeenth colon for U S E D three boxes stationery one box alidade and one carton tripod for alidade period for AWS Kokee fourteen pieces steel thirty bundles steel one crate hand winch twelve boxes parts weighing twenty thousand pounds and two each four thousand gallon gasoline tanks.

WYMAN.

Certified to be US Govt. official business:

[Hand written:] Phoned to Ft. Shafter 4:45 p. m.—9-17-41.

WM. R.

W. P. McCrone,  
W. P. McCrone,  
Capt., Corps of Engineers,  
Executive Assistant.

From File: ENGR 676.3 Aircraft Warning Service Stations.

## Inclosure B

21 FEB. 1942.

Col. POWELL: The construction foreman at Mt. Kaala informed me yesterday that it would be about five weeks before the aerial tramway job will have been completed.

The cable tower at the top has yet to be installed. As it now stands, the top anchorage now consists of a wooden "A" frame and a dead man.

DUNCAN.

Lt. BELL: To note and file.

AW.

Noted: 4 To Sgt. R for file.

[Stamped:] From File: Signal 676.3 AWS Station Locations (OaHU).

## Inclosure C

HEADQUARTERS HAWAIIAN DEPARTMENT,  
OFFICE OF THE DEPARTMENT ENGINEER,  
Fort Shafter, T. H., 8 September 1941.

In reply  
refer to:  
Engr. 676.3

Memorandum to District Engineer:

1. In accordance with conversation, Colonel Powell-Major Robinson, and Major Fleming, on the Aircraft Warning Service, it is requested that you arrange to obtain from the Signal Officer the necessary metal building and towers for installation at Kokee and Haleakala. As you know, the installation at Kokee will consist of the metal detector building and a 100-foot tower and at Haleakala, will consist of the combined metal building and 35-foot tower.

2. It is my understanding that these metal buildings are now on hand at the Signal Corps yard at Fort Shafter. This site can be verified by having someone check the buildings on hand in the yard. If the buildings are now complete, shipment of them to Haleakala and Kokee and their erection at the site should be expedited.

3. It is also requested that erection of the power house at these two stations be expedited. It is understood that your office has designed and is furnishing all materials for these power houses. Their completion should be expedited in order to enable early installation of the equipment.

4. Also, in the discussion referred to, it was decided that the Signal Corps would furnish an employee at Kokee and at Haleakala to assist in the erection of the buildings and to see that they are properly screened and shielded as required. It is also tentatively agreed that the District Engineer would sub-allot funds to the Department Signal Officer to cover the cost of this employee's transportation and time while engaged on this work. In view of the need of this Signal Corps employee's assistance during the erection of the building, it is requested that you notify this office before the actual erection starts in order that arrangements can be made to send him to the site.

5. The Department Commander is extremely desirous that these stations be placed in operation without delay.

ROBERT J. FLEMING, Jr.  
Major, G. S. C.

[Stamped:] From File: Signal 676.3 AWS Miscellaneous AWS.  
A True Copy:

Address Reply to  
DISTRICT ENGINEER  
U. S. ENGINEER OFFICE  
P. O. Box 2240  
Honolulu, T. H.

WAR DEPARTMENT,  
UNITED STATES ENGINEER OFFICE,  
Honolulu, T. H., September 23, 1941.  
5-A

Refer to File No:

ND 676.3 AWS Kokee  
X ND 676.3 AWS Haleakala

Subject: Aircraft Warning Service Stations

To: Department Engineer, Headquarters, Hawaiian Department, Fort Shafter,  
T. H.

1. In answer to your memorandum of September 8 regarding the installation of the Aircraft Warning Service buildings at Kokee, Kauai and Haleakala, Maui, and the necessary funds for furnishing Signal Corps employees to assist in erection of these buildings, the following information is submitted for your convenience:

a. The necessary metal buildings and towers have been shipped to Kokee and Haleakala.

b. The necessary steel for the power houses at these stations is now being fabricated and upon completion the erection will be expedited.

c. Bill for the Signal Corps employees' time and transportation while engaged in this work will be submitted to the District Engineer and payment will be made directly from this office instead of suballotting the necessary funds to the Department Signal Officer as mentioned in memorandum referred to above.

d. The actual erection of the metal buildings and station towers at these stations will be started as follows: Haleakala, as soon as Signal Corps employees arrive; Kokee, approximately October 1, 1941.

2. You will be notified, as soon as can be determined, the exact date that erection of buildings and tower will be started. Arrangements have been made at these stations for the accommodation of the Signal Corps employees.

3. It is requested that this office be informed the day before the employees are to leave for Maui and Kauai.

Theodore Wyman, Jr.  
THEODORE WYMAN, JR.,  
Lt. Col., Corps of Engineers,  
District Engineer.

[Stamped:] From File: Signal 676.3 AWS Miscellaneous AWS.

Address Reply to  
DISTRICT ENGINEER  
U. S. ENGINEER OFFICE  
P. O. Box 2240  
Honolulu, T. H.

WAR DEPARTMENT,  
UNITED STATES ENGINEER OFFICE,  
Honolulu, T. H., September 23, 1941.

Refer to File No.

ND 676.3 AWS Mobile (9/8/41)

X ND 652

Subject: Mobile Stations, Kauai and Maui

To: Department Engineer,  
Headquarters, Hawaiian Department,  
Fort Shafter, T. H.

1. Your memorandum of September 8 regarding the mobile stations at Haleakala, Maui and Kokee, Kauai has been received and the following information is submitted for your guidance:

a. The barracks at Haleakala are approximately 90% complete. The garage and truck shelter, one of which is necessary to house the mobile unit, is now being designed.

b. The barracks at Kokee are approximately 10% complete. The garage and truck shelter at this station are also being designed.

2. Work on these islands is being expedited and as soon as it is possible for the mobile units to be sent to these stations you will be notified.

Theodore Wyman, Jr.,  
THEODORE WYMAN, JR.,  
Lt. Col., Corps of Engineers,  
District Engineer.

[Stamped:] From File: Signal 676.3 AWS Miscellaneous AWS.

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HEADQUARTERS HAWAIIAN DEPARTMENT

INTER-STAFF ROUTING SLIP

The Inter-Staff Routing Slip is for use of the Department Staff including the Department C/A and the B&LDO. It will be used solely for Departmental Staff inter-communication.

This slip and accompanying papers, when transferred from one Staff Office to another, will be forwarded to the interested Staff section direct, with the exception that matters concerning personnel will be routed through the Adjutant General unless a policy has been established. The Staff section originating a routing slip will fill in the subject and at the end of the 1st Indorsement list accompanying papers. Notation of enclosures added subsequently will be made by the responsible office at the end of its indorsement. Indorsements hereon will be numbered in sequence and initialed by the officer in charge or an officer authorized to sign for him.

## 3136 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

[1]

Inclosure D

No. of Ind. From and Date	To	Subject: Proposed Installation of Six Mobile RDF Units on Island of Oahu
1st Ind Sig O 14 Aug 41	G-3	<p>1. It is proposed to install the six mobile RDF units recently received by this Department in temporary alert positions until the permanent sites have been completed. This temporary installation is expected to accomplish the following:</p> <ul style="list-style-type: none"> <li>a. Provide complete RDF coverage around the island of Oahu with multiple coverage south, southwest, and west of Pearl Harbor.</li> <li>b. Provide bona fide RDF intelligence to the Information Center at Fort Shafter in lieu of the "canned" messages now in use.</li> <li>c. Provide facilities for the training of RDF personnel on actual RDF equipment and under simulated War conditions.</li> <li>d. Develop accuracy and speed to reduce the time lag between RDF unit and plotting table.</li> </ul>
		<p>2. The following is a list of proposed station sites, together with the reasons prompting their recommendation:</p> <ul style="list-style-type: none"> <li>a. FUU PALAILAI—coverage to the west and south—convenient to a suitable road net, C&amp;FC cable, and messing and quartering facilities.</li> <li>b. WAIANA E (KANEILLIO PT)—Coverage to the west—convenient to a suitable road net, C and FC cable, and messing and quartering facilities.</li> <li>c. KAWAILOA—coverage to north and northwest—convenient to a suitable road net, C and FC cable, and messing and quartering facilities.</li> <li>d. KAAWA—coverage to the east and northeast—convenient to road net, C and FC—will require field mess, however, site chosen is on a Military Reservation.</li> <li>e. KOKO HEAD—coverage to the east and southeast—convenient to road net, C and FC cable, and messing and quartering facilities.</li> </ul>

[Stamped:] From File: Signal 676.3 AWS Station Locations (Oahu).

## HEADQUARTERS HAWAIIAN DEPARTMENT

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[2]

No. of Ind. From and Date	To	Subject: Proposed Installation of Six Mobile RDF Units on Island of Oahu	
1st Ind Con Sig O 14 Aug 41	G-3	f. FORT SHAFTER—coverage to the south and southwest. It is desired to utilize this set to train antenna riggers, van drivers, etc., consequently it will be shifted from its alert position from time to time. The sector covered by this set is also covered by two other stations, consequently it is considered the best set on which to train the rigging personnel thus keeping all other stations at alert status.	
		3. All sites chosen are on Military Reservations and have been located close to other Army installations. It is proposed to use the existing cable system for communication inasmuch as no AWS communication equipment has been received by this Dept to date.	
		4. This office is considering the use of a mobile station on the Haleakala Road on the island of Maui. The temporary occupation of the CCC camp on Haleakala will become feasible upon receipt of the AWS communications equipment by this Dept. This station would cover the gap created by the mountains on Molokai and western Maui.	
		5. The erection of temporary stations on Makapuu Point and Diamond Head have been carefully considered, however, the problem of suitable roads to the station sites precludes their use at this time. The use of these positions would require widening the turns on the Makapuu road and enlarging the tunnel into Diamond Head and improving the road up to the rim. Adequate coverage can be obtained from a position on Koko Head which is conveniently situated with respect to roads, communications, and utilities.	
		3 Incls. #1-Map showing station sites, #2-Map showing area covered, #3-Memo C/S to Sig O 12 Aug 41.	C. A. P.

[Stamped:] From File: Signal 676.3 AWS Station Locations (Oahu).

#### HEADQUARTERS HAWAIIAN DEPARTMENT

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## 3138 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

No. of Ind. From and Date	To	Subject: Proposed Installation of Six Mobile RDF Units on Island of Oahu	
2d Ind. G-3 15 Aug 41	Sig O	Installations proposed in 1st R/S Indorsement have been approved by Department Commander. Incls. n/o	W. C. P. Walter C. Phillips, Lieut. Colonel, G. S. C., Asst. Chief of Staff.

[Stamped:] From File: Signal 676.3 AWS Station Locations (Oahu).  
File.

C/S to Sig O  
8/12/41

Confirming all instructions of DC 6 AWS sets to be installed at Makapuu Head, Koko Head and Diamond Head for training at once.  
Incl 3

PHILIP HAYES,  
Colonel, G. S. C.,  
Chief of Staff.

[Stamped:] From File: Signal 676.3 AWS, Station Locations (Oahu).

[copy]

MEMO C/S TO SIG O 8/12/41

Confirming all instructions of DC 6 AWS sets to be installed at Makapuu Head, Koko Head and Diamond Head for training at once.

PHILIP HAYES,  
Col., G. S. C.,  
O/S

Incl. #3  
COPY

Inclosure E

[IMMEDIATE ACTION—SECRET]

By Authority of Chief Signal Officer  
Date 7/23/41 Initials CF

Address Reply To  
DIRECTOR  
Signal Corps  
Laboratories  
Refer to FM (SCL) Proj. 12-8

Addresses:  
Mail: RED BANK, N. J.  
Express and Freight  
LITTLE SILVER, N. J.

WAR DEPARTMENT,  
SIGNAL CORPS LABORATORIES,  
Fort Monmouth, July 23, 1941.

Subject: Shipment of Equipment.

To: Commanding Officer, Hawaiian Signal Depot, Fort Shafter, T. H.

1. The following shipment left these laboratories as indicated below:

Quantity	Consignee	Method	Date of Departure
Six (6) Radio Sets SCR-270-B, Serial Nos. 11, 12, 13, 14, 15, and 16.	Commanding Officer, Hawaiian Signal Depot, Fort Shafter, T. H. Marked: "For AWS. Hold for Instructions from Department Signal Officer."	Rail to Port of Embarkation, San Francisco, California.	July 22, 1941.

2. An officer courier and armed enlisted guards accompanied this shipment to Port of Embarkation, San Francisco, California.

3. For your information this shipment consists of the following units:

	L	H	W
Six (6) Operating Trucks K-30, 21,595 lbs. each	25'	10'7"	8'3"
Six (6) Power Trucks K-31, 24,945 lbs. each	25'	10'7"	8'3"
Six (6) Stake Body Trucks K-33, 10,125 lbs. each	26'8"	8'10"	8'4"
Six (6) Antenna Trailers K-22-B, 14,275 lbs. each	30'4"	9'10"	8'
Six (6) Prime Movers K-32, 10,420 lbs. each	10'2"	10'	8'
Total thirty (30) units: 488,360 lbs.			



For the Director:

[Stamped:] From File: Signal 676.3 AWS Unit Equipment SCR 270 Section 1.

Leon Fields,  
LEON FIELDS,  
Captain, Signal Corps,  
Adjutant.

Joint Pearl Harbor Board Station No. 12

(SECRET)

Report  
on the Investigation of the  
Attack on Pearl Harbor

Prepared by Major (Retired) Frank B. Rowland, Jr. August 1946

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