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(a) After hostile offensive action, such as the use of bombs, torpedoes, mines and other ammunition, has been observed.

(b) After receipt of a verified report of a hostile attack.

(c) Upon orders from this headquarters.

\* \* \*

By command of Lieutenant General SHORT:

/s/ Philip Hayes

PHILIP HAYES,  
Colonel, General Staff Corps,  
Chief of Staff.

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WARD & PAUL, WASHINGTON, D C

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1 Cinopac File No.  
 2 A2-11/FF12/  
 3 A4-3 QL/(13)  
 4 Serial 01646

5 UNITED STATES PACIFIC FLEET

6 U.S.S. PENNSYLVANIA, Flagship

7 Pearl Harbor, T. H.,

8 October 14, 1941

9 \* \* \*

10 (b) That a declaration of war may be preceded by:

11 (1) a surprise attack on ships in Pearl Harbor,

12 (2) a surprise submarine attack on ships in  
 13 operating area,

14 (3) a combination of these two.

15 \* \* \*

16 (2) Air Patrols:

17 (a) Daily search of operating areas as directed  
 18 by Aircraft, Scouting Force.

19 \* \* \*

20 (G) DEFENSE AGAINST AIR ATTACK:

21 (1) The principal Army anti-aircraft gun defense  
 22 of Pearl Harbor consists of several three-inch mobile batter-  
 23 ies which are to be located on the circumference of a circle  
 24 of an approximate radius of five thousand yards with center  
 25 in the middle of Ford Island. The Army, assisted by such  
 units of the Marine Defense Battalions as may be available,  
 will man these stations. Machine guns are located both

h2

1 inside and outside the circle of three-inch gun positions.

2 (2) In the event of a hostile air attack, any  
3 part of the Fleet in Pearl Harbor plus all Fleet aviation  
4 shore-based on Oahu, will augment the local air defense.

5 (3) Enclosure (A) defines the air defense sectors  
6 in Pearl Harbor and is the basis for the distribution of  
7 ships within the harbor for anti-aircraft fire. Hostile  
8 planes attacking in a sector shall be considered as the  
9 primary targets for ships in that sector. However, ships  
10 in other sectors may augment fire of any other sector at the  
11 discretion of the Sector Commander.

12 (4) The Senior Officer Embarked in Pearl Harbor  
13 (exclusive of Commander-in-Chief, U.S. Pacific Fleet) shall  
14 ensure that ships are disposed at berths so that they may  
15 develop the maximum anti-aircraft gunfire in each sector  
16 commensurate with the total number of ships of all types  
17 in port. He is authorized to depart from the normal berthing  
18 plan for this purpose. Battleships, carriers, and cruisers  
19 shall normally be moored singly insofar as available berths  
20 permit.

21 (5) The Senior Officer Present in each sector  
22 prescribed in sub-paragraph (G) (3) above, is the Sector  
23 Commander, and responsible for the fire in his own sector.

24 (6) The Commandant Fourteenth Naval District is  
25 the Naval Base Defense Officer (N.B.D.O.) As such he shall:

h3

1 (a) Exercise with the Army joint super-  
2 visory control over the defense against air attack.

3 (b) Arrange with the Army to have their  
4 anti-aircraft guns emplaced.

5 \* \* \*

6 Condition I -- General Quarters in all ships. Condition  
7 of aircraft as prescribed by Naval Base  
8 Defense Officer.

9 Condition II -- One-half of anti-aircraft battery of all  
10 ships in each sector manned and ready.  
11 Condition of aircraft as prescribed by  
12 Naval Base Defense Officer.

13 Condition III -- Anti-aircraft battery (guns which bear in  
14 assigned sector) of at least one ship in each  
15 sector manned and ready. (Minimum of four  
16 guns required for each sector). Condition  
17 of aircraft as prescribed by Naval Base  
18 Defense Officer.

19 \* \* \*

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Mr. Mitchell: We have a study dated August 20, 1941, five months before this attack made by General Martin of the Air Corps and Admiral Bellinger of the Naval Corps, which is a most voluminous document.

I think the committee have had copies of it, and have had it for some time. I would like to offer that as Exhibit 13.

The Chairman: Without objection, so ordered.

(The document referred to was marked Exhibit No. 13)

Mr. Mitchell: I would like to have the body of that report transcribed into the record, except the diagrams. It is only a few pages.

The Chairman: That will be done. The general counsel will mark the part to be copied so the reporter will understand.

(The matter referred to is as follows:)

rbm 1

HEADQUARTERS HAWAIIAN AIR FORCE  
Office of the Air Force Commander (T-3)  
Hickam Field, T. H.

In reply refer to: 20 August 1941

SUBJECT: Study of the Air Situation in Hawaii.

TO : Commanding General, Army Air Forces, Washington, D. C.

THRU : Commanding General, Hawaiian Department, Fort Shafter,  
T. H.

1. In compliance with copy of corrected memorandum for the Commanding General, Army Air Forces, OCS 17234-25, from the Secretary, General Staff, dated July 17, 1941, "that a study be made of the air situation in Hawaii", there is attached for consideration of the War Department a plan for the employment of long-range bombardment aviation in the defense of Oahu. This plan clearly presents the air defense of the Hawaiian Islands. Attention is called to the recommendations therein.

2. No increase in personnel of the permanent air garrison of Hawaii is necessary to bring the actual heavy bombardment strength to one group. Under provisions of Table of Basic Allowances No. 1, War Department dated December 1, 1940, fourteen additional heavy bombardment airplanes will be required to provide a total strength of one group of thirty-five B-17D type airplanes. This force is so small for the mission to be performed that it is considered entirely inadequate.

3. When the RDF installation is completed and the 15th

WARD & PAUL, WASHINGTON, D. C.

Subject: Study of the Air Situation in Hawaii, cont'd:

1 Pursuit Group has its full complement of 80 fighters no further  
2 increase for pursuit aviation is considered necessary. Provision  
3 should be made to maintain at all times the 14th Pursuit Wing at  
4 full combat strength of 80 fighters and 105 interceptors. It is  
5 contemplated that pursuit aviation will perform its normal mission  
6 in the defense of these islands by intercepting and destroying  
7 enemy aircraft in the vicinity of or over the island of Oahu.  
8 This is considered an adequate force to perform the pursuit mis-  
9 sion in the defense of these islands.

10 4. A combination medium bombardment-torpedo force is  
11 considered highly desirable in order that attack can be made  
12 under conditions of low visibility when horizontal bombing is  
13 not feasible and is therefore recommended as a component part  
14 of the Hawaiian Air Force. (See Study No. 2 in attached plan.)

15 5. On the assumption that there is a possibility of  
16 enemy surface craft reaching the shores of Oahu, one squadron  
17 of dive bombers is considered necessary to assist the ground  
18 forces in withstanding an invasion effort by concentrating on  
19 denying the enemy any opportunity to establish beach heads. The  
20 quick and accurate striking power of dive bombers makes them  
21 particularly effective for close-in support on the ground forces  
22 and this premise is borne out by information contained in intelli-  
23 gence reports received on the war in Europe. Dive bombers would  
24 also be employed against hostile surface craft and submarines  
25

rbm 3

1 Subject: Study of the Air Situation in Hawaii, cont'd:  
2 which had penetrated close to the shores of Oahu.

3 6. With the addition of the force of medium bombardment-  
4 torpedo airplanes and one squadron of dive bombers no further  
5 increase in the number of light bombardment airplanes is required.

6 7. One additional observation squadron should be assigned  
7 the Hawaiian Air Force to supplement the new ground organization  
8 of the Hawaiian Department which is being re-organized into two  
9 triangular divisions. The ground forces of the Hawaiian Depart-  
10 ment should be provided with three observation squadrons. At  
11 present there is assigned one observation squadron (C&D) and one  
12 light bombardment squadron which could be diverted to observation  
13 duty.

14 8. To increase the number of aircraft in the Hawaiian  
15 Air Force as outlined in this letter and in the attached plan it  
16 is estimated that approximately 3,871 additional men should be  
17 assigned. A minimum of 216 combat crews and 180 maintenance crews  
18 are necessary to operate 180 B-17D type airplanes. Sufficient  
19 personnel are now present in the Hawaiian Air Force to man 70  
20 combat crews and 70 maintenance crews for heavy bombardment air-  
21 craft. Additional personnel equal to the difference above should  
22 be assigned to the Hawaiian Air Force to meet these requirements.  
23 Further personnel increases should be made to activate two medium  
24 combination bombardment-torpedo squadrons, one dive bomber  
25



rbm 4

1 Subject: Study of the Air Situation in Hawaii, cont'd:  
 2 squadron, one additional observation squadron and five air base  
 3 squadrons. The five air base squadrons will be used to maintain  
 4 the outlying fields tabulated below which will house heavy bombard-  
 5 ment squadrons as indicated. The two Air Base Groups (S) are to  
 6 be used to maintain Bellows Field and the site selected for the  
 7 station of the 15th Pursuit Group.

8	Barking Sands .....	2
9	Morse Field .....	2
10	Hilo .....	1
11	Lanai .....	1
12	Parker Ranch .....	1

13  
 14 9. The dive bomber squadron and three observation  
 15 squadrons with allied services will become, in effect, air  
 16 support command and will be stationed at Bellows Field.

17 10. Tables of Organization prescribe five enlisted men  
 18 for each heavy bombardment combat crew. For continuous daily  
 19 operation a minimum of fourteen men will be necessary for each  
 20 heavy maintenance crew. Using these figures as a basis, person-  
 21 nel requirements have been computed as shown in Inclusion No. 2.

22 11. There is at present available, under construction and  
 23 awaiting approval of the War Department, housing for 12,288 en-  
 24 listed men. This study will require housing for a total of  
 25 12,813 men to provide for all Air Corps and associated personnel.

WARD & PAUL, WASHINGTON, D C

rbm 5

Subject: Study of the Air Situation in Hawaii, cont'd:

1 This leaves but 525 men to be cared for in a future project which  
 2 will be submitted when this study has been approved. For de-  
 3 tailed analysis of housing see Inclosure No. 3.

4 12. It is my conviction that by increasing the present  
 5 strength of the Hawaiian Air Force by one observation squadron,  
 6 a minimum of one dive bomber squadron, two squadrons of combina-  
 7 tion medium bombardment-torpedo airplanes and by increasing the  
 8 strength of long-range bombardment to a total of 180 airplanes  
 9 a positive defense of the Hawaiian Islands can be assured with-  
 10 out any assistance whatever from the naval forces giving the Navy  
 11 complete freedom of action.

F. L. MARTIN,  
 Major General, U. S. Army,  
 Commanding.

12  
 13  
 14 3 Incls-

15 Incl #1 - Plan for the Employ-  
 16 ment of Long-Range  
 17 Bombardment Aviation  
 in the Defense of Oahu.  
 (In triplicate).

18 Incl #2 - Personnel Requirement Recapi-  
 19 tulation. (In triplicate).

20 Incl #3 - Air Force Housing Facilities.  
 21 (In triplicate).  
 22  
 23  
 24  
 25

1 PLAN FOR THE EMPLOYMENT OF BOMBARDMENT AVIATION IN THE  
2 DEFENSE OF OAHU

3 1. GENERAL:

4 1. The key to this plan is found in the provision for  
5 first, a complete and thorough search of the Hawaiian area  
6 daily during daylight; secondly, an attack force available on  
7 call to hit a known objective located as a result of the search  
8 and thirdly, if the objective is a carrier, to hit it the day  
9 before it could steam to a position offshore of Oahu where it  
10 could launch its planes for an attack.

11 2. The most difficult problem presents itself when it  
12 is necessary to search through 360°. This might occur daily  
13 and it is the only one considered in this study. It is possi-  
14 ble, of course, that intelligence obtained from advanced naval  
15 bases and ships at sea might implement this plan and reduce  
16 the search area to 270°, 180° or even 90°. In this case,  
17 the striking force would be augmented by those planes not  
18 required for search.

19 3. All computations in connection with air operations  
20 under this plan are based on the B-17D airplane. This type  
21 of airplane is considered available for either a search mission  
22 or an attack mission and consequently no reference is made  
23 to reconnaissance or bombardment aviation as such but to  
24 the search or the attack forces. The combat crew training  
25 of both will be identical and search and attack missions will

1 Plan for the Employment of Bombardment Aviation in the Defense  
2 of Oahu, cont'd:

3 be rotated for the purpose of resting crews and maintaining  
4 aircraft.

5 II. THE PROBLEM:

6 1. To analyze the mission of heavy bombardment aviation  
7 in the defense of Oahu with a view to promulgating a plan in  
8 accordance therewith.

9 III. FACTS BEARING ON THE CASE:

10 1. Facts:

11 a. The Army mission is: "To defend the Naval Base  
12 of Oahu".

13 b. The bombardment mission is:

14 (1) When Navy reconnaissance is adequate:

15 "To attack and destroy enemy surface craft  
16 within radius of action."

17 (2) When Navy is absent or not present with  
18 equipment in Numbers of Quality:

19 "To search for, attack and destroy enemy  
20 surface craft within radius of action."

21  
22  
23  
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WARD & PAUL, WASHINGTON, D C

Plan for the Employment of Bombardment Aviation in the  
Defense of Oahu, cont'd:

c. \*Capabilities of B-17D type airplanes are:

	<u>Gal Fuel used</u>	<u>Miles flown</u>
(1) Search at 45% Power at <u>5,000' Altitude</u> (No bombs-2500 gallons fuel)		
One hour full throttle operations	432	214
Two hour fuel reserve	272	
Climb	30	10
Cruise at 143 knots at 136 gal/hr	<u>1766</u>	<u>1910</u>
	2500	2134
Radius of Action in nautical miles		<u><u>1067</u></u>
(2) <u>Search - Attack at 45% at 5,000'</u> (4-600# bombs - 2100 gallons fuel)		
One hour full throttle operation	432	214
Two hours fuel reserve	272	
Climb	30	10
Cruise at 143 knots at 136 gal/hr	<u>1366</u>	<u>1485</u>
	<u>2100</u>	<u>1709</u>
Radius of Action in nautical miles		<u><u>854</u></u>

Plan for the Employment of Bombardment Aviation in the  
Defense of Oahu, cont'd:

	<u>Gal Fuel used</u>	<u>Miles flown</u>
(3) Attack at 65% Power - Return		
<u>at 45% Power at 15,000'</u>		
(4-600# bombs - 2100 gallons fuel)		
One hour full throttle operation	432	236
Two hours fuel reserve at 45% power	272	
Climb	90	27
65% Power - 193 knots at 208 gal/hr	687	643
45% Power - 150 knots at 136 gal/hr	<u>612</u>	<u>643</u>
	<u>2093</u>	<u>1549</u>
Radius of Action in nautical miles		<u><u>775</u></u>
(4) Attack at 65% Power - Return at		
<u>45% Power at 15,000'</u>		
(8-600# bombs - 1700 gallons fuel)		
One hour full throttle operation	432	236
Two hours fuel reserve at 45% power	272	
Climb	90	27
65% Power - 193 knots at 208 gal/hr	485	450
45% Power - 150 knots at 136 gal/hr	<u>408</u>	<u>450</u>
	1687	1163
Radius of Action in nautical miles	<u>1700</u>	<u>581</u>

\* Note - The above capabilities were taken from

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 curves in the B-17D handbook and checked  
4 by actual flight tests.

5 d. To perform its missions, the Fleet must have freedom  
6 of action without responsibility for the defense of its base.

7 e. If the solution to a problem is designed to meet the  
8 most adverse conditions, any less adverse condition will facili-  
9 tate the solution.

10 f. Army Air Force units at present are not charged with  
11 the reconnaissance mission for the defense of Oahu.

12 g. The combatant force having the longer range weapon  
13 has a basic advantage, other factors being equal.

14 h. The bombardment airplane is the longest range weapon  
15 which the Department Commander has at his disposal.

16 2. Assumptions:

17 a. The following are the assumed or known maximum  
18 capabilities of enemy equipment:

19 (1) Some of his carriers can steam at 30 knots for  
20 at least 24 hours. (Best available intelligence  
21 indicates ORANGE has three carriers with this  
22 performance).

23 (2) His carrier bombing planes have 600 nautical  
24 miles range and cruise at 180 knots (based on  
25 performance data of the U.S. Navy carrier planes

Plan for the Employment of Bombardment Aviation in the  
Defense of Oahu, cont'd:

and no allowance is made for take-off, rally  
after attack, full throttle operation and  
landing).

b. The following are the assumed probable capabilities  
of enemy equipment:

- (1) His carriers steam at 27 knots for 24 hours.  
(28 knots is the mean top speed of his carriers;  
1 knot reduction is made for foul bottoms).
- (2) His carrier bombing planes have 400 nautical  
miles range and cruise at 180 knots (reduction  
in range from 600 to 400 nautical miles is  
made to allow for take-off, rally after attack,  
full throttle operation and landing).

Note: In the discussion that follows it is assumed that  
hostile carriers operating under conditions a and b above once  
committed to action will steam straight in to their launching  
radius. Any maneuvering by the enemy when within our search  
area will simplify our problem for it will give the search  
force more time in which to locate the enemy.

c. The Hawaiian Air Force is primarily concerned with the  
destruction of hostile carriers in this vicinity before they  
approach within range of Oahu where they can launch their  
bombardment aircraft for a raid or an attack on Oahu.



Plan for the employment of Bombardment Aviation in the  
Defense of Oahu, cont'd:

d. An enemy will not venture an attack against the  
Hawaiian Islands until control of sea lanes of communication  
is obtained. Then as the enemy fleet approaches those islands,  
raids by surface vessels, submarines and carrier-based aircraft,  
may be expected.

e. Our most likely enemy, ORANGE, can probably employ  
a maximum of 6 carriers against Oahu.

f. A 25-mile visibility is assumed. This assumption is  
based on standard U. S. Navy search and patrol methods employed  
in this area.

g. For the purpose of this problem the day is divided  
into 13 hours of daylight and 11 hours of darkness. These  
assumptions are based on the following computations:

(1) June 22, 20° N. Lat., Sunrise	0521
Sunset	<u>1842</u>
Hours of daylight	1321
Add: Morning Twilight	25
Evening Twilight	<u>24</u>
Total hours of daylight	<u>14:10</u>

1 Plan for the Employment of Bombardment Aviation in the  
 2 Defense of Oahu, cont'd:

3 (2) December 21, 20° N. Lat., Sunrise 0630

4 Sunset 1750

5 Hours of daylight 1120

6 Add: Morning Twilight 24

7 Evening Twilight 24

8 Total hours daylight 12:08

9 Average (1) and (2) 13:09

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 IV. DISCUSSION:

4 Part 1: The Search:

5 1. The only manner in which the Hawaiian area can be  
6 thoroughly searched for enemy surface craft, particularly  
7 aircraft carriers, in the event of a situation requiring  
8 such action, is to provide a sufficient number of aircraft  
9 to conduct a daily search of a desired area during daylight  
10 hours with 100 percent coverage through  $360^{\circ}$ . A method of  
11 searching  $5^{\circ}$  sectors through  $360^{\circ}$  to a radius of 833 nautical  
12 miles from Oahu employing 72 B-17D airplanes is indicated  
13 in Chart No. 1. It will be noted that the outside lines of  
14 visibility for the diverging tracks cross at the 600 nautical  
15 mile circle, the overlap area inside of that distance becoming  
16 a non-covered area beyond that distance. The width of the  
17 non-covered area increases as the distance increases beyond  
18 600 nautical miles with the corollary that the probability  
19 of finding the target decreases as the search continues out.  
20 However, as can be seen on the chart, each search plane  
21 on the search back covers the area not covered between any two  
22 planes on the search out and, in addition, covers the area  
23 previously searched by the plane on its left on the search out  
24 but uncovered on the search back, 100% coverage of the area is,  
25 therefore, obtained on the search out and back.

1027

Plan for the Employment of Bombardment Aviation in the Defense  
of Oahu, cont'd:

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2. In order to have available for ready reference a means of determining coverage and non-coverage of areas on the search out using 3°, 4° and 5° sectors, there is attached Chart No. 2. The method of constructing the curves thereon is indicated on the chart. It will be observed that, with the assumed visibility of 25 miles, 100% coverage on the search out is obtained to a radius of:

- a. 600 nautical miles with airplanes in 5° sectors.
- b. 750 nautical miles with airplanes in 4° sectors.
- c. 1000 nautical miles with airplanes in 3° sectors.

3. Under any given set of operating data for the search planes and enemy carrier, the radius of action of the search force is determined by:

- a. Rate of closure of the carrier and search planes.
- b. Minimum distance the carrier can be offshore and allow the search force to make interception and relay the information to the attack force.
- c. Minimum time required for the attack force to make interception beyond the radius of action of the carrier planes.

4. In developing this plan, all search aircraft take off at daylight. They might take off during darkness in order to be at a certain location at dawn if definite information as to the movements of enemy surface vessels is reported from some source such as our search of a previous day, friendly surface vessels or Navy patrol.

Plan for the Employment of Bombardment Aviation in the Defense of Oahu, cont'd:

h3 1        Part 2: This part of the discussions deals with the  
2 maximum capabilities of enemy equipment namely. his carriers  
3 steam at 30 knots and his bombing planes have 600 nautical  
4 miles range and cruise at 180 knots. See Chart No. 3.

5        1. Section No. 1:

6            a. An enemy should be primarily interested in  
7 obtaining the maximum cover of darkness for his carrier ap-  
8 proach. This section illustrates four possible uses of dark-  
9 ness by an enemy to cover his approach. In each case the  
10 distance out for dusk and dawn is computed from the most  
11 distant aircraft launching circle, or 350 nautical miles.  
12 This figure is based on the fact that after launching, the  
13 carrier planes will be in the air 3:20 and during that time  
14 the carrier steams in 100 nautical miles to recover its  
15 planes.

16            b. 1A shows a carrier launching its aircraft at  
17 midnight, attacking and recovering during darkness; 1B  
18 shows the launching at dusk with the attack and recovery  
19 during darkness; 1C shows the launching at noon with the at-  
20 tack and recovery during daylight; and 1D shows the launching  
21 at dawn with the attack and recovery during daylight.

22            c. It will be noted that each time schedule has  
23 a daylight period within the radius of action of the attack  
24 force but that 1D permits the least time interval for our  
25 forces to operate against an enemy and requires it to attack

h4

1 Plan for the Employment of Bombardment Aviation in the Defense  
2 of Oahu, cont'd:

3 at the longest range. The early morning attack is, therefore  
4 the best plan of action open to the enemy.

5 d. It is the opinion of some individuals that a  
6 late afternoon attack is highly probable since it permits an  
7 enemy carrier to escape under cover of darkness. This pre-  
8 supposes that search operations are impracticable. This  
9 headquarters cannot subscribe to this opinion for the following  
10 reasons:

- 11 (1) A minor surprise raid such as a single carrier  
12 is not a logical method of attack to reduce  
13 the defenses of Oahu.
- 14 (2) It permits us to operate against him for a long  
15 period on D Day at close range.
- 16 (3) The enemy will be more concerned with deliver-  
17 ing a successful attack than he will be with  
18 escaping after the attack. He will have care-  
19 fully considered the cost of the enterprise,  
20 will probably make a determined attack with  
21 maximum force and will willingly accept his  
22 losses if his attack is successful.

23 2. Section No. 2:

24 a. This section illustrates a routine daily search  
25 by the search force which will be made in order to prevent an

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1 Plans for the Employment of Bombardment Aviation in the  
2 Defense of Oahu. cont'd:

3 enemy from making an undetected approach on Oahu.

4 b. Specifically, with the carrier approaching at  
5 30 knots and the search force taking off at dawn, intercep-  
6 tion must be made no closer to Oahu than 435 nautical miles  
7 and no later than 3:03 after dawn on D Day. This permits  
8 40 minutes to send a radio message to the home base and get  
9 the attack force in the air and 2:10 for it to intercept and  
10 deliver its attack before the carrier can launch its planes.  
11 The attack force will strike the carrier at its dawn plus  
12 5:34 D Day, 359 nautical miles out.

13 c. On a time distance basis, dawn D Day for a carrier  
14 is 526 nautical miles from Oahu; dusk D Day-1 is 856 nautical  
15 miles out and dawn D Day-1 is 1246 nautical miles from Oahu.  
16 Solving the rate of closure problem for the two forces 1246  
17 nautical miles apart, it is found that contact will be made  
18 at 1030 nautical miles from Oahu at carrier's dawn plus 7:12  
19 on D Day-1.

20 d. It must be pointed out that this solution is  
21 the maximum radius of action for the search force, yet not  
22 necessarily the most difficult problem presented to our  
23 attack force. While a carrier arriving at the 1030 nautical  
24 mile circle at dawn plus 7:12 on D Day-1 cannot be attacked  
25 that day, it can be attacked the following day as shown in b

1 Plans for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 above when it must come within easy range of the attack force  
4 if it is to attempt to steam to within its launching radius.

5 3. Section No. 3:

6 a. This section illustrates the most difficult  
7 problem which the attack force has to solve. It is the same  
8 problem that is illustrated in Section No. 1D. The critical  
9 point here is the carrier's position at his launching radius  
10 at dawn. Under these circumstances he is able to launch  
11 his aircraft before we intercept him and deliver an attack  
12 against him on D Day. Therefore, we must hit him D Day-1,  
13 or the day before he arrives at this position.

14 b. Specifically, if his dawn position D Day is  
15 350 nautical miles from Oahu, his dusk position D Day-1  
16 must be 680 nautical miles out and his dawn position D-Day-1  
17 must be 1070 nautical miles out. If he makes good this  
18 schedule, interception by the search force will be made at  
19 884 nautical miles out at his dawn plus 6:11 on D Day-1.  
20 Allowing 40 minutes to transmit a message and to get the  
21 attack force in the air, the attacking force will strike the  
22 carrier at its dawn plus 10:43 D Day-1 at a distance of 748  
23 nautical miles from Oahu and can operate against it during  
24 the remaining 2:16 before dusk. Under the most favorable con-  
25 ditions for the enemy the enemy carrier can be subjected to  
attack by our attacking force during a period of 2:16 on D Day-1

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1 Plan for the Employment of Bombardment Aviation in the De-  
2 fense of Oahu, cont'd:

3 4. Section No. 4: This section shows the radius of  
4 action of the B-17D type airplane with full load of bombs  
5 and 1700 gallons of fuel.

6 5. Effect of Visibility (See Chart No. 2):

7 a. To cover the required search area under the  
8 above conditions 120 airplanes, each covering a 3° sector,  
9 would be needed to operate to a distance of 1030 nautical  
10 miles. This number of planes would permit 10% coverage  
11 of the entire 360° on the search out.

12 b. Obviously any decrease in the number of planes  
13 employed will increase the sector to be searched by each plane  
14 and therefore reduces the probability of finding the target.  
15 Any uncovered area would, however, with a lesser number of  
16 search planes be covered on the search back, and depending  
17 upon the location of the carrier and the hour of the day, might  
18 permit an attack to be made on D Day-1 or D Day.

19 Part 3: This part of the discussion deals with the  
20 assumed probable capabilities of enemy equipment (see Chart  
21 No. 4). It is believed that his maximum capabilities will  
22 be reduced from those assumed for Sections 1 to 4, inclusive,  
23 (Chart No. 3) by the following factors:

24 1. His average carrier top speed will be 27 knots. This  
25 statement is predicated upon the fact that the average top

h8  
1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, continued:

3 speed of ORANGE carriers is 28 knots, and the belief that  
4 on his run across the Pacific, foul bottoms will probably  
5 further reduce his speed.

6 2. The cruising range of his carrier aircraft will be  
7 400 nautical miles. No allowance is made in previous com-  
8 putations for full throttle operation, for fuel reserve,  
9 or for time required to take off from, and land aboard,  
10 the carrier.

11 3. He will not have unlimited avenues of approach for  
12 his attack.

13 a. He must avoid the shipping lanes to negate de-  
14 tection.  
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1 Plan for the Employment of Bombardment Aviation in the Defense of  
2 Oahu, cont'd:

3       **b.** Any approach to Oahu which is made from east of the  
4 158th meridian materially increases his cruising distance and the  
5 probability of detection by friendly surface vessels. It seems  
6 that his most probable avenue of approach is the hemisphere from  
7 0° counter-clockwise to 180° around Oahu; the next most probable,  
8 the quadrant 180° counter-clockwise to 90°; the least probable,  
9 90° to 0°.

10       **c.** The tactical search enunciated above is not the only  
11 source of information as to his movements. Office Naval Intelli-  
12 gence, surface scouting forces, commercial ships at sea, radio  
13 intercept and proposed advance naval line patrol, will tend to  
14 disclose his general location and might, therefore, reduce the  
15 search area for our forces.

16       **d.** He will want to take the shortest distance to his  
17 objective, although this will be of minor consideration if his  
18 range is sufficient to permit him the long approach.

19       4. Section No. 5:

20       **a.** This section has been drawn to show one possible  
21 plan of attack of the enemy under his assumed probable capabili-  
22 ties. Here consideration has been given to the factors enumer-  
23 ated in paragraphs 1, 2 and 3 immediately above, with the result  
24 that his performance characteristics have been reduced to 27 knots  
25 speed for his carrier and to 400 nautical miles range for his

rbm 7

1 Plan for the Employment of Bombardment Aviation in the Defense of  
Oahu, cont'd:

2 airplanes. Under these conditions it will be necessary for the  
3 carrier to approach within 233 nautical miles of Oahu before it  
4 can launch its aircraft; recovery would be made at 167 nautical  
5 miles. Accordingly, the radius of search can be reduced to 833  
6 nautical miles and still permit the search force to locate the  
7 carrier and the attack force make its attack before the carrier-  
8 based aircraft can be launched. These assumed characteristics  
9 can reduce the required search radius to 833 nautical miles and  
10 still permit the carrier being attacked before it reaches the  
11 position from which aircraft can be launched.

12  
13 b. If on D Day-1 the carrier force is at a distance of  
14 991 nautical miles steaming in at 27 knots and the search force  
15 takes off at dawn, interception will occur at the carrier's dawn  
16 plus 5:49, 833 nautical miles away, the maximum radius of search  
17 under these conditions. Allowing 40 minutes to order the attack  
18 force out and 3:42 for the flight, the carrier can be attacked  
19 at its dawn plus 10:11 D Day-1, 715 nautical miles out and can  
20 operate against it during the remaining 2:49 before dusk.

21 c. Further, should the carrier be missed on D Day-1  
22 there still remains an opportunity to attack it on D Day. Inter-  
23 ception must be made by the search force not nearer than carrier's  
24 dawn plus 2:02, 288 nautical miles out on D Day in order to make  
25 an attack prior to launching. This attack would occur at dawn

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1 Plan for the Employment of Bombardment Aviation in the Defense of  
2 Oahu, cont'd:

3 plus 3:56, 237 nautical miles out.

4 5. Section No. 6: The problem here is the same as that  
5 shown in paragraph 3, Part 2 above, i.e., the most favorable plan  
6 of action open to an enemy. With the carrier making good its  
7 time schedule to arrive at its airplane launching position at  
8 daylight, interception by the search force will be made at dawn  
9 plus 5:11 of carrier's D Day-1. Allowing 40 minutes to transmit  
10 the message to the home base and for the attack force to take off,  
11 the attack force can reach the carrier at dawn plus 9:08 of  
12 carrier's D Day-1 and can operate against the carrier during the  
13 remaining 3:42 before dusk. Under the most probable plan of ac-  
14 tion of an enemy carrier, a B-17D attacking force can operate  
15 against the carrier for 3:42 of the day prior to his attack on  
16 Oahu.

17 6. Effect of Visibility:

18 a. In Section No. 5, a 5° search spread should give  
19 adequate coverage. The search time schedule is such that if  
20 interception is not made on the search out it can be made on the  
21 search back in time to transmit the information and to deliver  
22 an attack by the striking force before dusk on D Day-1. There  
23 is 75% coverage at 800 nautical miles on the search out, but on  
24 the search out and back there is 100% coverage. 72 airplanes  
25 would be used for the search.

1 Plan for the Employment of Bombardment Aviation in the Defense of  
2 Oahu, cont'd:

3       **b.** In Section No. 6, with 5° search sectors, the proba-  
4 bility of finding the target at 740 nautical miles is 85% for the  
5 search out and as stated in a above, 100% for the search out and  
6 back. 72 airplanes would be sufficient for complete coverage in  
7 this case, for if interception is not made on the way out, it can  
8 be made on the search back in time to transmit information and  
9 deliver an attack.

10 V. CONCLUSION:

11       1. Action by enemy carrier-based bombing planes against Oahu  
12 should be figured on the basis of their having 400 nautical miles  
13 range and a speed of 180 knots.

14       2. a. The most favorable plan of action open to the enemy,  
15 and the action upon which we should base our plans of operation,  
16 is the early morning attack in which the enemy must make good  
17 the following time schedule:

18               (1) Cross circle 881 nautical miles from Oahu at  
19               dawn of the day before the attack.

20               (2) Cross circle 530 nautical miles from Oahu at  
21               dusk of the day before the attack.

22               (3) Launch his planes 233 nautical miles from Oahu  
23               at dawn the day of the attack.

24               (4) Recover his planes 167 nautical miles from Oahu  
25               2:30 after dawn the day of the attack.

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1 Plan for the Employment of Bombardment Aviation in the Defense of  
2 Oahu, cont'd:

3 b. Any variation from the above time schedule permits  
4 our attack force to strike the enemy during daylight of the day  
5 before his attack over a greater time interval and at a shorter  
6 range; or, permits our attack force to strike him during day-  
7 light of the day he attacks but before he is within his radius of  
8 action of Oahu. If an enemy carrier succeeded in slipping in un-  
9 detected by our search force and launched an attack, we could and  
10 would, of course, attack as soon as possible in order to destroy  
11 or disable the carrier prior to, or during, the recovery of its  
12 planes.

13 3. The area between the circles with radii 530 nautical  
14 miles and 833 nautical miles from Oahu is the operating area for  
15 the solution of this problem under its most adverse condition.

16 4. a. With the Army Air Force responsible for its own recon-  
17 naissance, 72 B-17D airplanes will be required to search daily  
18 the area within the circle of 833 nautical miles radius from Oahu,  
19 each plane covering a 5° sector.

20 b. Based upon the assumption of visibility used in this  
21 study, 72 airplanes employed to search a 360° sector should result  
22 in 100% coverage with some overlap to 600 nautical miles, 85%  
23 coverage at 700 nautical miles and 75% coverage at 800 nautical  
24 miles in the search out. In every case, the search out and in  
25 would permit 100% coverage within the time interval which would

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1 Plan for the Employment of Bombardment Aviation in the Defense of  
2 Oahu, cont'd:

3 allow the launching of the bombing attack prior to dusk on D Day-1.

4 5. If a similar search could be conducted from Dutch Harbor,  
5 Midway, Johnston or Palmyra the possibility of enemy surface ships  
6 approaching Hawaii and the west coast of the United States un-  
7 detected would be practically non-existent.

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WARD & PAUL, WASHINGTON, D. C.



Plan for the Employment of Bombardment Aviation in the  
Defense of Oahu, cont'd;

6. Search must be conducted during daylight hours because of the extreme difficulty of locating what will be an unlighted objective proceeding under cover of darkness. The B-17D airplane is capable of searching for, and attacking, an enemy force the day prior to its arrival within its striking distance of Oahu.

7. With this plan in actual operation the defenses of these islands can be assured without assistance from the Navy. This will permit complete freedom of action of the Pacific Fleet.

8. The B-17D airplane is capable of operating beyond the combat range of any known enemy carrier-based aviation.

9. Attack must be conducted during daylight hours because it is considered impracticable to locate and bomb a maneuvering precision target during darkness.

10. Based on the worst situation that could arise, i.e., the employment of 6 enemy carriers against Oahu simultaneously each approaching on a different course, an attack force of 36 B-17D's would be required to disable or destroy the carriers. It is expected that 6 B-17D's with bomb loads of seven 600# bombs would be sufficient to accomplish the desired result (see Study No. 1). It is contemplated that this attack force will be augmented by 36 additional B-17D's of the maintenance

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 and reserve force if in commission.

4 11. This attack force should be further augmented by a  
5 minimum of 36 long-range planes of the B-26 or similar type,  
6 capable of carrying torpedoes to be used as the striking force  
7 under conditions of low ceiling and visibility when high  
8 altitude level bombing technique is not practicable. (See  
9 Study No. 2).

10 12. A reserve of 72 planes will be needed to provide  
11 for maintenance, replacement and reserve for both the search  
12 and attack forces. As was stated in paragraph 10 above, 36  
13 of this number may be employed as part of the attack force  
14 if in commission.

15 13. In order to operate the above number of B-17D's,  
16 a minimum of 216 combat crews will be needed as indicated in  
17 Chart No. 5.

18 VI. RECOMMENDATIONS:

19 1. It is recommended that the War Department give  
20 immediate consideration to the allotment of 180 B-17D type  
21 airplanes or other four-engine bombers with equal or better  
22 performance and operating range and 36 long-range torpedo-  
23 carrying medium bombers to the Hawaiian Air Force for the  
24 performance of search and attack missions in an area bounded  
25 by a circle whose radius is 833 nautical miles and center is

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd;

3 Oahu, as follows:

4 72 for daily search missions.

5 36 for attack missions (these airplanes will be in readi-  
6 ness daily, fully armed and loaded with bombs, for  
7 a mission).

8 72 for maintenance and reserve from which 36 may be used  
9 to augment the attack force.

10 180 total B-17D's.

11 36 torpedo-carrying medium bombers of the B-26 or other  
12 suitable type.

13 2. While this number of bombardment airplanes could not  
14 be accommodated at Hickam Field and there are no other suitable  
15 bases available on Oahu, it should be only a matter of time  
16 until projects submitted to the War Department for the con-  
17 struction of airdromes on outlying islands of the Hawaiian  
18 group are completed which, with Hickam Field, will be adequate  
19 for operations of the above number of planes. Existing plans  
20 for the dispersion of the 18th Bombardment Wing (H) provide  
21 for units of one and two squadrons to operate from dispersed  
22 airdromes. Modification of the plan to apply to operations  
23 therefrom are anticipated and will be made.

24 3. It is further recommended that in making future  
25 allotments of officers and enlisted men to the Hawaiian Air

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 Force consideration be given to providing a minimum of 216  
4 B-17D combat crews and 36 medium bomber-torpedo combat crews.  
5 In this connection, see paragraph 8, basic letter.

6 4. Our leading tacticians and strategists here concur  
7 in the opinion that this plan will solve the defense of the  
8 Hawaiian Islands and that to their knowledge it is the best  
9 and only means that can be devised to locate enemy carriers  
10 and make attacks thereon before said carriers can come within  
11 launching distance of Oahu. The sole purpose of the existence  
12 of the military establishment on Oahu, ground and air, is for  
13 the defense of Oahu as an outlying naval base. The best defense  
14 is an aggressive and well-organized offense. The basis of  
15 this plan is offensive action. We have had clearly demonstrated  
16 to us in Europe the fallacy of depending upon passive measures  
17 of defense. We must not base our plans of action on the "Defense  
18 of Hawaii", but rather upon a vigorous offensive. We must  
19 ferret out the enemy and destroy him before he can take action  
20 to destroy us.

21 It has been said, and it is a popular belief, that Hawaii  
22 is the strongest outlying naval base in the world and could,  
23 therefore, withstand indefinitely attacks and attempted invasions.  
24 Plans based on such convictions are inherently weak and tend to  
25 create a false sense of security with the consequent unprepared-

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:  
3 ness for offensive action.

4 In order to initiate offensive action, the Hawaiian Air  
5 Force must have at its immediate command well-organized,  
6 equipped and trained combat crews. It should be remembered  
7 that while reinforcements from the Mainland can be made avail-  
8 able on short notice their expeditious presence here will not  
9 solve the problem. Upon their arrival they must be given an  
10 opportunity to undergo a certain amount of indispensable in-  
11 doctrination and training in the plan of action of the Hawaiian  
12 Air Force. If this plan is to be effective the force recommended  
13 above must be made a reality and maintained in existence in  
14 Hawaii for combat at any time. With the United States living  
15 and working under a condition of unlimited National Emergency,  
16 Japan making its southward movement and the world in general  
17 in a complete state of turmoil we must be prepared for D Day  
18 at any time. Reinforcements, therefore, must be considered  
19 from the standpoint of replacements for losses only. Any delay  
20 in placing this plan in operation, such as would be necessary for  
21 the above reasons, would mitigate against its success.

22 It is believed that a force of 180 four-motored aircraft  
23 with 36 long-range torpedo airplanes is a small force when  
24 compared with the importance of this outpost. This force  
25 can be provided at less cost to the Government than the cost

1 Plan for the Employment of Bombardment Aviation in the  
2 Defense of Oahu, cont'd:

3 of one modern battleship. It is further believed that this  
4 force should be made available as soon as possible even at  
5 the expense of other units on the Mainland.

6 STUDY OF THE BOMBS REQUIRED TO DISABLE AN AIRCRAFT CARRIER

7 1. It is assumed that two direct hits by 500 lb. or  
8 600 lb. demolition bombs will be sufficient to disable an  
9 aircraft carrier.

10 2. From the tables of probability of direct hits by  
11 bombing, results obtained by units of the Hawaiian Air Force  
12 in bombing sleds towed by Navy surface craft and from previous  
13 experiences by bombardiers who have made attacks of this nature,  
14 it is determined that about 90% probability of two direct  
15 hits may be expected from 6 B-17D's or similar type airplanes  
16 attacking a maneuvering carrier from 15,000 feet, each dropping  
17 seven 600 lb. bombs in train. Bombardiers are assumed to be  
18 capable of at least a 20 mil accuracy.

19 3. In arriving at the number of bombs and airplanes re-  
20 quired, several methods of attack are considered:

21 a. Attack by individual airplanes from different  
22 directions, attacking in close succession.

23 b. Formation attacks by three plane elements from  
24 different directions and in close succession.

25 c. Formation attack on a 6-plane flight.

1 Study of the Bombs Required to Disable an Aircraft Carrier, Cont'd:

2 In all cases bombs are assumed to have been dropped in  
3 train by each airplane with a spacing of 80 feet between bombs.  
4 The number of bombs (42) and airplanes (6) required to give a  
5 90% probability of two effective hits was determined to be  
6 nearly the same for each type of attack.

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NEED FOR TORPEDO PLANES IN THE HAWAIIAN AIR FORCE

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1. a. Any or all of the following factors could be expected to partially or wholly prevent the successful accomplishment of the bombardment mission:

- (1) Inability to find enemy force (navigation).
- (2) Lack of bombing accuracy.
- (3) Enemy fighter action.
- (4) Hostile anti-aircraft artillery fire.
- (5) Weather obscuring objectives.

b. Consideration of these factors;

- (1 and 2) Navigational and bombing accuracy are primarily matters of training and practice. Efficient standards can be and are being attained by the training of combat crews in the Hawaiian Air Force.
- (3) The critical altitude, high speed and defensive armament of the present heavy bombardment aircraft is such as to provide excellent defense against enemy fighters. It is not believed that carrier based fighters will be very effective against the B-17D's at high altitudes.
- (4) Reports from abroad indicate that anti-aircraft fire will be only partially effective and will not prevent the accomplishment of the



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mission.

(5) The weather of the Hawaiian Islands is probably the best in the world from a standpoint of flying conditions and yet a very definite percentage of bombing missions fail because of overcast conditions which obscure the objective. Heavy bombardment as such is useless against surface craft when low ceilings (200 - 1,000 feet) prevail, and it is doubtful if it could be used below 5,000 feet without prohibitive losses from anti-aircraft fire before reaching the bomb release line. Enemy surface craft may be expected to take full advantage of all cloudiness conditions and even to wait until such conditions occur before launching an attack. At present the Hawaiian Air Force has no weapon to effectively combat surface craft under such conditions.

2. The following is submitted as a solution to this problem:

a. The most effective action against surface craft under poor weather conditions is believed to be a torpedo attack from low flying aircraft. This is substantiated by results from abroad, i.e., Bismarck sinking, Taranto attack, etc., A torpedo plane flying just off the water can operate

## Need for Torpedo Planes in Hawaiian Air Force, cont'd:

h3      1      under a very low ceiling and with guaranteed accuracy against  
2      all surface craft.      The torpedo plane should be land-based,  
3      of long range, fast and capable of being accurately navigated.  
4      It should operate in conjunction with heavy bombardment.

5            3. a.      The only type airplane that could be adapted  
6      to this purpose at present in the Hawaiian Department is the  
7      A-20A.      It is believed that this adaptation can be made and  
8      the problem is under consideration and test at present.

9            b.      It is believed that the medium bombardment air-  
10      plane of the B-26 type will be even more satisfactory because  
11      of its longer range.

12           c.      It is recommended that adaptation of some such  
13      airplane be made, preferably in such a manner as not to  
14      interfere with the normal bombardment mission.

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Mr. Mitchell: Before I forget it, I want as the next exhibit number, 14, to introduce a letter from Headquarters, Hawaiian Department, Office of the Department Commander, dated 14 April 1941. Subject: "Air Defense of Pearl Harbor," addressed to the Adjutant General, Washington, D. C., and signed for the Commanding General of the Hawaiian Department by Carl Grosse, Assistant Adjutant General. It has a notation on it, "Copy to Commandant 14th Naval District."

I will not read that letter. It contains reference to several of these air defense plans.

The Chairman: You want that printed in the daily transcript?

Mr. Mitchell: Yes, I want to put that in.

(The letter referred to was marked Exhibit 14, and is as follows:)

HEADQUARTERS HAWAIIAN DEPARTMENT  
OFFICE OF THE DEPARTMENT COMMANDER  
FORT SHAFTER, T. H.

In reply refer to: 14 April 1941.

AG 381/67a JDP

Subject: Air Defense of Pearl Harbor

To: The Adjutant General, Washington, D. C.

1. Reference is invited to secret letter from The Adjutant General to Headquarters Hawaiian Department, above subject, dated 7 February 1941, file AG 381 (1-24-41)M. There are enclosed herewith for your information copies of the principle directives, orders, and estimates which have been issued, in cooperation with the local naval authorities, to provide for the joint defense of the Pearl Harbor Naval Base and ships of the Pacific Fleet in Hawaiian waters against surprise raids or air attacks.

2. Inclosure 1, joint letter HHD - 14th ND, dated 14 February 1941, initiated the study by joint committees of Army and Navy officers of the joint problems of the defense which were mentioned in the correspondence between the Secretaries of War and Navy, inclosed in the letter referred to in paragraph 1 above, and also included study of additional problems which were raised by Admiral Kimmel, Commander in Chief of the Pacific Fleet.

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3. Inclosure 2, Annex No. VII to the Joint Coastal Frontier Defense Plan (HCF-39) is a new joint agreement with the local naval authorities which pertains to joint security measures. Attention is particularly invited to Section II of this document which relates to joint air operations. This joint agreement covers the major points which were studied by the joint committees organized in inclosure 1. Inclosure A to this Annex No. VII has not yet been completed, however tests are now being conducted to determine the most effective means of positive identification of friendly aircraft and insure its protection from antiaircraft artillery fire.

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4. Inclosure 3, Joint Estimate Hawaiian Air Force and Patrol Wing TWO (Naval Base Defense Air Force) is self explanatory and will serve as the basis of joint air operations orders to be issued in the near future. These joint orders are required since it will be noted that, in the conduct of air operations, aircraft of one service passes to the tactical control of the other service.

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5. Inclosure 4, Field Order No. 1 NS (Naval Security) is a new operations order for this Department covering the measures which will be taken during an alert period and initially upon a sudden raid or air attack. This order has been coordinated with comparable security orders of

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1  
2 of the Pacific Fleet and the Naval Base Defense Force. This  
3 order is in addition to and does not replace the existing  
4 Field Orders No. 1 and No. 1 W which are contained in OHD-38.

5 For the Commanding General:

6 Carl Grosse,

7 Major, A. G. D.

8 Assistant Adjutant General

9 4-Incl.

10 Copy yo Commandant 14th Naval District.

11 - - - -

12 Mr. Mitchell: That is all, Mr. Chairman.

13 The Chairman: Is counsel in a position to advise the  
14 committee as to who will be called next?

15 Mr. Mitchell: Mr. Hull is our first witness on Friday  
16 morning.

17 Senator Lucas: Mr. Chairman,

18 The Chairman: The Senator from Illinois.

19 Senator Lucas: In the interrogation of Admiral Richardson  
20 there were some facts that he did not know which I would like  
21 to have his views on, and which I would like to have him at-  
22 tempt to discover for me. Here are the questions I am  
23 going to ask:

24 How many Naval planes were attached to the Fleet when  
25 Admiral Richardson took it over?

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2 How many Naval planes were attached to the Fleet when  
3 Admiral Richardson was relieved of his command?

4 How many planes were capable of doing reconnaissance  
5 duty during that time?

6 How many planes were actually on reconnaissance work  
7 every day after the reconnaissance orders issued by Admiral  
8 Richardson were augmented by Admiral Andrews which directed  
9 reconnaissance on dawn and day patrol 300 miles covering a  
10 western semi-circle of 180 degrees?

11 That is the information I would like to have.

12 Mr. Gearhart: Mr. Chairman.

13 The Chairman: Mr. Gearhart.

14 Mr. Gearhart: May I ask a question of counsel?

15 In the event Mr. Hull is not able to appear, or for some  
16 reason does not appear would you be able to give me who the  
17 witness will be to substitute for him?

18 Mr. Mitchell: There are a group there: Mr. Sumner Welles,  
19 Mr. Grew, and Mr. Hamilton. Our idea is if Mr. Hull gets  
20 tired and has to retire in order to return later, we will  
21 bring on some of these other witnesses and keep going on with  
22 the State Department story as rapidly as we can. We had to  
23 assure Mr. Hull and his family that the committee will not  
24 detain him for questioning more than 45 minutes at a time. He  
25 tires very rapidly. That upsets our schedule a little.

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2           The Chairman: In connection with that, copies of  
3 the written statement of Mr. Hull have been furnished to  
4 all members of the committee.

5           Mr. Mitchell: That is right.

6           The Chairman: I presume it will be read by the committee  
7 before Mr. Hull comes on.

8           Mr. Mitchell: Yes.

9           We have given you copies of it in advance so you can  
10 study it beforehand.

11           The Chairman: As to whether the other statement should  
12 be read by somebody in the meeting, they do concern matters  
13 on which the committee may want to take action after it has  
14 been examined.

15           Senator Ferguson: Mr. Chairman.

16           The Chairman: Senator Ferguson.

17           Senator Ferguson: I want to inquire of General Mitchell  
18 whether or not the committee has received all of the exhibits,  
19 or all of the written information in relation to the State  
20 Department witnesses?

21           Mr. Mitchell: Mr. Gesell will answer that.

22           Mr. Gesell: We have received from the State Department  
23 all of the documents which we intended to introduce in connec-  
24 tion with the testimony of the State Department witnesses,  
25 with the exception of one or two documents which are being



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WARD &amp; PAUL, WASHINGTON, D. C.

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2 cleared with other governments, and we expect that the  
3 clearance will be obtained before we go ahead Friday morning.  
4 All of the documents which we have obtained have been dis-  
5 tributed to each of the members of the committee. I think  
6 the bulk of them went to the committee about a week ago,  
7 and we have from time to time, I think, including this morn-  
8 ing, handed additional documents on the subject to the  
9 members of the committee.

10 Senator Ferguson: So then, at the present moment, we  
11 have all of the documents that the committee counsel desire  
12 to use, except those that you must receive clearance on?  
13 As I understand it, you are being delayed from getting certain  
14 information from the State Department because other govern-  
15 ments will not clear the committee getting those documents.

16 Mr. Gesell: There has been no refusal to clear,  
17 Senator, by any Government.

18 Senator Ferguson: What is the situation?

19 Mr. Gesell: The situation is this: There is an under-  
20 standing, I am informed, which has prevailed between the United  
21 States and other governments with which we are in friendly rela-  
22 tions that they will not give publication to notes and docu-  
23 ments they received from our officials, and we will not give  
24 publication to similar material we received from their offi-  
25 cials for a period of 15 years, unless specific authorization

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is obtained.

Now, we have not received any refusal from any government to release the documents which we wish to present to the committee.

There are one or two situations where we have not yet heard either way, and we expect to hear in those situations before Friday morning.

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2 Senator Ferguson: Then if you get the approval we will  
3 receive those copies of those papers prior to the hearing?

4 Mr. Gesell: That is correct, Senator.

5 Senator Ferguson: It would be difficult to examine  
6 witnesses on documents, as I said before, unless we get them  
7 sometime before the witnesses are put on the witness stand.

8 Mr. Gesell: You are quite right. I can assure the  
9 Senator in this instance the volume of documents to which I  
10 refer is extremely small. We hope it may be even possible  
11 to get them to you tomorrow, if the clearance comes through.  
12 We will do the best we can on that, of course.

13 Senator Ferguson: As one of the members of the committee  
14 I think I have quite a few questions on the documents that I  
15 have not received. They are included, I take it, among those  
16 that the other governments must clear.

17 Mr. Gesell: I do not know about that.

18 Mr. Mitchell: We will have to check the rest to be sure  
19 it is what you have in mind. They come in pretty fast. We  
20 have a system set up of taking them and trying to keep up with  
21 them.

22 The Chairman: If there is nothing further, the committee  
23 will stand in recess until 10:00 o'clock Friday morning.

24 (Whereupon, at 4:00 o'clock p.m., the committee recessed  
25 until 10:00 o'clock a.m., Friday, November 23, 1945.)