

(b) Units of each task organization, when in port, will guard and use harbor circuit (2502 kcs, currently in use in Pearl Harbor) and such other circuits as may be prescribed. Senior Officer Present Afloat will also guard the harbor circuit, and establish communication, preferably by visual or landline, with the nearest shore command activity.

11. *Schedules.* Current employment schedules for Task Forces ONE, TWO and THREE, and units not assigned to Task Forces, remain in effect except for units transferred to Task Forces SEVEN and NINE by this letter. Assignments to Task Force FIFTEEN will be indicated in the Task Force ONE, TWO and THREE schedules. Commanders Task Force SEVEN and NINE submit revised schedules for the period 15 November to 31 December 1941, at the earliest practicable date. For the present, required inter-type training of submarines and patrol planes with surface types will be limited to the Fleet Tactical periods listed in reference (b). Commanders Task Forces SEVEN and NINE will, if practicable, have at least two divisions of submarines and two squadrons of patrol planes available for each of these Fleet Tactical periods. Commanders of Task Forces SEVEN and NINE will include in their schedules joint arrangements for exercises between patrol planes and submarines in recognition signals, visual and radio communications, and coordinated tactics. Commanders of Task Forces SEVEN and NINE will also arrange for inter-type training in addition to that required during Fleet Tactical periods by mutual agreement with Commanders of Task Forces ONE, TWO, and THREE during the regular at sea operating periods of the surface Task Forces.

H. H. KIMMEL.

DEPARTMENT: (5CM 41)

List II, Case 1: A, X, ENI, ENI, NAIE, ND14C.

ND14-E-13-14, NXS-10. (A) Asiatic,

AT—Atlantic).

P. C. CROSBY,

Flag Secretary.

EXHIBIT No. 53

[1] HEADQUARTERS, NAVAL BASE DEFENSE FORCE,
FOURTEENTH NAVAL DISTRICT,
PEARL HARBOR, T. H., 27 February 1941.

File. C-A16-3/A-3(5)/ND14(0164)
Confidential—Operation Plan No. 1-41

TASK ORGANIZATION

- (a) *Inshore Patrol* (Commander Inshore Patrol)
Destroyer Patrol (2 DD)
 Outer—1 DD
 Inner—1 DD
Boom Patrol (1 Power Boat)
Harbor Patrol (4 Power Boats)
A/B Boom
Mine Sweepers—
 Magnetic (KEOSANQUA, YS-86)
 Anchored (Mine Force and Base Force Detail)
- (b) *Base Defense Air Force* (Commanding Patrol Wing Two) In conjunction with Army.
- (c) *Anti Aircraft Defense* (District Marine Officer) In conjunction with Army.
- (d) *Harbor Control Post* (District Operations Officer) In conjunction with Army.
1. *Information.* Attention is directed to Pacific Fleet Confidential letter No. CL-41 of 15 February 1941, to Pacific Fleet Confidential Memorandum No. 1 CM-41 of 25 February 1941, and to 14ND-JCD-13 (Hawaiian Joint Coastal Frontier Defense Plan).

By cooperation in support of the Army, Naval security measures will be established as necessary for the joint protection of PEARL HARBOR Base in order to safeguard the Fleet.

In conjunction with the Commanding General Hawaiian Department, the Naval Base Defense Officer (Commandant Fourteenth Naval District will arrange to coordinate joint effort; to set conditions of readiness; to hold required drills; to make "alarm" and "all clear" signals.

Assumptions.—(a) That no responsible foreign power will provoke war under existing conditions, by attack on the Fleet or base, but that irresponsible and misguided nationals of such powers may attempt:

- (1) Sabotage from small craft on ships based in PEARL HARBOR.
- (2) Block the entrance channel to PEARL HARBOR by sinking an obstruction in the channel.
- (3) Lay magnetic or other mines in the approaches to PEARL HARBOR.
- (b) That a declaration of war might be preceded by:
 - (1) A surprise submarine attack on ships in base area—probable.
 - (2) A surprise air attack on ships in PEARL HARBOR—possible.
- [2] (3) A combination of these two—possible.

2. This force, in cooperation with and in support of the Army, will establish security measures including air defense and surface ship patrol to enforce Presidential Proclamation No. 2375 of 4 November 1939, and General Order one hundred eighteen in order to protect PEARL HARBOR and to safeguard the Fleet.

(3). (a) *Inshore Patrol.* Maintain a continuous patrol of the interior waters of PEARL HARBOR, and the seaward approaches thereto; keep the Pearl Harbor channel and its approaches against magnetic and anchored mines; operate and patrol the A/B boom; prevent approach to the channel entrance of any unauthorized vessel; maintain continuous listening watch for submarines; and report movement of foreign registry ships. Detailed Inshore Patrol Plan—Annex "A".

(b) *Base Defense Air Force.* Maintain readiness of shore based Fleet aircraft for joint effort in conjunction with Army air units against air attack on PEARL HARBOR area.

Commander Patrol Wing TWO in consultation with the Army will prepare detailed naval participation air defense plan—Annex "3".

(c) *Anti-Aircraft Defense.* Defense Battalions of the Fleet Marine Force present in PEARL HARBOR in conjunction with Army and Fleet units in PEARL HARBOR, provide anti-aircraft defense.

The District Marine Officer will, in consultation with Army and Fleet Officers concerned, prepare the detailed naval participation anti-aircraft defense plan—Annex "C".

(d) *Harbor Control Post.* Establish and maintain Harbor Control Post in the Operations Office, Fourteenth Naval District. Provide selected telephone circuits separate from dial system, to Army and Navy activities necessary for proper functioning of this post under present conditions. In conjunction and cooperation with Army personnel attached to Harbor Control Post train officer personnel and carry out duties prescribed in OpNav serial 041230 of 5 November 1940. Detailed Harbor Control Post Plan—Annex "D".

[3] (x) This plan will be implemented by orders and instructions to the task groups concerned incorporated in this plan as annexes. As operating experience is gained, and conditions change, these annexes will be revised and re-issued as replacements.

4. Logistics for Fleet details provided by Type Commanders; for District forces by Commandant Fourteenth Naval District.

5. (1) Communications in accordance with Annex "E". (2) Use zone plus ten and one half time. (3) Naval Base Defense Officer (Com 14) at Headquarters, Fourteenth Naval District.

C. C. BLOCH,
Naval Base Defense Officer,
Commandant, Fourteenth Naval District.

Annexes:

- A. Inshore Patrol Plan.
- B. Base Defense Air Force Plan.
- C. Anti-Aircraft Defense Plan.

- D. Harbor Control Post Plan.
- E. Communication Plan.

Distribution-complete with Annexes.

- | | |
|------------------------------------|----------------------------|
| CinCPAC (10) | COMSCOFOR (15) |
| CG HD (20) | Combatships (17) |
| Dist. Marine Officer 14ND | COMCRUBATFOR (25) |
| Operations Officer 14ND | COMAIRBATFOR (50) |
| Comdr. Inshore Patrol 14ND | COMDESBATFOR (165) |
| Captain of the Yard NYd PEARL | COMINBATFOR (20) |
| District Intelligence Officer 14ND | COMCRUSCOFOR (25) |
| NTS 14ND (10) | COMSUESCOFOR (40) |
| CO NAS PHTH (5) | COMPATWINGTWO (20) |
| CO SUB BASE PHTH (5) | COMBASEFOR (75) |
| COMAIRSCOFOR (8) | COMDR. 2ND. AIRFORCMP (10) |
| CO USS PENNSYLVANIA (2) | COMDESDIVTWO (05) |
| COMBATFOR (15) | |

[1]

Annex "A"—Revised

File-A16-3/A4-3(5)/ND14(0563)

Confidential—Operation Plan I. S. P. No. A-1-41*To Naval Base Defense Force Operating Plan No. 1-41*

HEADQUARTERS, NAVAL BASE DEFENSE FORCE,
FOURTEENTH NAVAL DISTRICT.

TASK ORGANIZATION

(a) *Outer Harbor Patrol*: Senior Unit Commander or C. O. Desdiv Eighty, TANEY, and Fleet Vessels Detailed.

(1) *Picket line*: Unit Commander or Senior C. O. Not to be stationed at present.

(2) *Channel Entrance Patrol*: C. O. DD detailed. 1 DD, detailed by Comdesdiv Eighty, or TANEY.

(3) *Ready Duty Destroyer*: C. O. DD Detailed. 1 DD detailed by Comdesbatfor.

(b) *Harbor Channel Patrol*: Senior Boat Officer.

(1) *Entrance Channel Patrol*: Boat Officer—1 Power Boat. Not to be stationed at present.

(2) *Boom Patrol*: Boat Officer—1 Power Boat detailed by Combatfor.

(c) *Inner Harbor Patrol*: Senior Boat Officer. 4 Power Boats detailed by Combatfor and administered by Combase.

(1) *Drydock Channel Patrol*: Boat Officer—1 Power Boat.

(2) *East Loch Patrol*: Boat Officer—1 Power Boat.

(3) *Middle Loch Patrol*: Boat Officer—1 Power Boat.

(4) *West Loch Patrol*: Boat Officer—1 Power Boat.

(d) *A/B Boom*: Lieut. Spear. Maintenance and Operating crews furnished by Captain of the Yard, Navy Yard, Pearl Harbor, and boom operated as at present.

(e) *Minecraft*:

(1) XAMc Division: Lieut. Comdr. C. D. Line, D-C, USNR REEDBIRD, CONDOR, COCKATOO, CROSSBILL.

(2) YS-86: C. O. Towing Vessel. KEOSANQUA, and YT-142 towing vessels detailed by Captain of the Yard, Pearl Harbor Navy Yard.

[2] 1. This paragraph same as paragraph 1 of basic plan, No. 1-41 Serial ND14 (0164) of 27 February, 1941. In addition, the following excerpts from "Joint Action of the Army and the Navy 1935" and "14ND J. C. D. 42 (Joint Coastal Defense Plan)", are quoted in order to clarify the extent and limits of the Harbor Patrol and to standardize the nomenclature of Task Groups:

"A defensive coastal area pertaining to a fortified harbor includes the *Outer Harbor Area*, the *Harbor Channel Area*, and the *Inner Harbor Area*".

"The *OAHU Defensive Coastal Area* (OAHU D. C. A.) comprises all water areas within circles and the connecting tangents drawn with points as centers and with respective radii as follows:

- KEAHI POINT Forty-nine thousand (49,000) yards.
- PUU KAPOLEI Forty-five thousand (45,000) yards.
- PUUIKI STATION } Twenty-three thousand (23,000) yards."
- KAHUKU POINT }

"The *Outer Harbor Area* is the water area which extends to seaward from the outer exits of the entrance channels to a fortified harbor and lies within the range of the harbor defense batteries". (OAHU being a small island containing three fortified harbors, PEARL, HONLULU and KANEOHE, whose defensive batteries comprise all the island coast defense batteries, the outer harbor areas of these harbors merge and complete the waters of the OAHU Defensive Coastal Area).

"The *Harbor Channel Area* is the water area which lies between the *Outer Harbor Area* and the *Inner Harbor Area*, and which comprises all the entrance channels to the harbor".

"The *Inner Harbor Area* is the entire water area of a fortified harbor inside the inner entrance of all the entrance channels to the harbor".

[3] 2. This force will maintain a continuous patrol of the interior waters of PEARL HARBOR, and the seaward approaches thereto; sweep the PEARL HARBOR channel and its approaches against magnetic and anchored mines; patrol the A/B boom; prevent approach to the channel entrance of any unauthorized vessel; maintain continuous listening watch for submarines; and report movement of foreign registry ships.

3. (a) *Outer Harbor Patrol* maintain a continuous patrol of the water approaches to PEAR HARBOR as follows:

(1) *Picket Line* patrol the outer limits of the Outer Harbor Area (OAHU D. C. A.) Report all surface vessels, submarines, and aircraft sighted or contacted, and subsequent development and identification reports direct to Army Harbor Defense Command Posts and to Commander Inshore Patrol by voice radio on Patrol Group Inshore Patrol frequency 2670 kcs. Escort vessels through Outer Harbor Area (OAHU D. C. A.) as ordered. (Details in Addendum I)

(2) *Channel Entrance Patrol* patrol the seaward area within one and one half mile radius of entrance buoys. Enforce General Order one hundred eighteen. Prevent approach to the entrance channel of the harbor by any unauthorized vessel. If necessary to seize a vessel, report to Naval Base Defense Officer (Commandant, Fourteenth Naval District) for instructions. See District Order 17-41 (Revised). Report movements of foreign registry ships.

(3) *Ready Duty Destroyer* moor at normal berth in PEARL HARBOR or at discretion remain under way in vicinity of harbor entrance, ready to proceed immediately to re-enforce the Channel Entrance Patrol in repelling hostile run-in [4] attempts, submarine attacks, or mining operations; to act as screening vessel in the area between PEARL HARBOR channel entrance buoys and outer limits of Outer Harbor Area for Gunnery School Vessels and others when ordered. Maintain the following condition of readiness: Boiler Power for twenty-five (25) knots. (If moored in port, steaming and sea watches posted, engines ready to answer all bells, and ship ready to get underway).

(b) *Harbor Channel Patrol* maintain continuous patrol of Harbor Channel waters as follows:

(1) *Boom Patrol* patrol the seaward side of the A/B boom in order to safeguard the boom and prevent damage thereto by sabotage attempts from small craft or from shore. (Details in Addendum I).

(2) *Entrance Channel Patrol* patrol the entrance channel from the A/B boom to the entrance buoys and the waters of the Defensive Sea Area of PEARL HARBOR inshore of the entrance buoys. (Details in Addendum I).

(c) *Inner Harbor Patrol* maintain continuous patrol of the interior waters of PEARL HARBOR in order to control small boat traffic, guard against laying of mines in the harbor, and prevent damage to ships of the Fleet at anchor and to Navy Yard waterfront property, from sabotage attempts. (Details in Addendum I).

(d) *A/B Boom* to be maintained and operated as present under the Captain of the Yard, Navy Yard, pearl harbor.

(c) *Mincraft* conduct sweeping operations in the seaward approaches to PEARL HARBOR as follows:

(1) XAMc Division daily, commencing at 0200, sweep a channel one mile wide on either side of [5] buoyed channel axis extended) from entrance buoys to the one hundred fathom curve. Carry out daily operations with two vessels each making single ship sweep, one for moored mines and one for magnetic mines. Immediately upon completion of sweeping operations, the senior commanding officer of the sweeping group will send the following despatch "priority" in plain language, addressed to the Commandant, Navy Yard PEARL HARBOR and Commander Inshore Patrol, Fourteenth Naval District "Clear" to mean "The sweeping operation at the PEARL HARBOR channel entrance is completed".

(2) YS-86 conduct magnetic sweeping as ordered.

(x) (1) The following task groups under Task Organization will not be stationed at present, due to lack of available vessels:

(a) (1) *Pickel Line*.

(b) (2) *Entrance Channel Patrol*.

(2) The following task group under Task Organization will be administered by Commander Base Force in accordance with Base Force Operation Plan No. 6-40 of 12 June 1940:

(c) *Inner Harbor Patrol*.

4. Logistics as provided in basic plan No. 1-41 of Serial ND14 (0164) of 27 February 1941.

5. Communications in accordance with Naval Base Defense Communication Plan, Annex E. Use zone time plus ten and one half. Commander Inshore Patrol, 14ND, at Headquarters, Fourteenth Naval District.

G. B. Wooley,
G. B. WOOLEY,
Commander, U. S. N. (Ret).,
Commander Inshore Patrol,
Fourteenth Naval District.

J. W. Bays,

J. W. BAYS,

Aide to Commandant.

Distribution: Same as Basic Plan.

[1] Annex Baker to Commander Naval Base Defense Force Operation Plan No. 1-41 Dated February 27, 1941

C-A16-3/A4-3 (5)/ND14 (0348)

Confidential

BASE DEFENSE AIR FORCE, PATROL WING TWO,
FLEET AIR DETACHMENT, NAVAL AIR STATION,
PEARL HARBOR, T. H. April 9, 1941.

Naval Base Defense Air Force Operation Plan No. A-1-41

TASK ORGANIZATION

(a) *Search and Attack Group* (Commander Naval Base Defense Air Force (Commander Patrol Wing TWO)).

The following units in accordance with current conditions of readiness:

Patrol Squadrons.

Shore-based VO-VS units.

Shore-based carrier VB and VT squadrons.

Shore-based carrier VS planes not assigned to the air combat group.

Shore-based Marine VS and VB squadrons.

Army bombardment squadrons.

Army reconnaissance squadrons.

Navy Utility squadrons.

(b) *Air Combat Group* (Senior VF Squadron Commander).

The following units in accordance with current conditions of readiness:

Shore-based carrier VF squadrons.

Shore-based Marine VF squadrons.

One division of shore-based carrier type VS planes.

1. *Information.*—This plan is made in accordance with: The Joint Air Operations agreement approved and promulgated on 21 March 1941; Joint Estimate covering joint Army and Navy air action, addendum I to this plan; and Pacific fleet confidential letter No. 2CL-41 dated 15 February 1941. An air combat group under the direction of the Commander Hawaiian Air Force will: Intercept and destroy hostile aircraft; Identify and report type of attacking aircraft; Trail attacking carrier type planes to carrier and report location to commander search and attack group; and as a secretary mission support search and attack group upon request.

[2] *Assumptions:* As in Addendum I of this plan. Antiaircraft gun control in the PEARL HARBOR area will be coordinated with operations under this plan. Air traffic lanes and recognition signals will be prescribed as found necessary.

2. This force will locate and destroy hostile forces raiding against OAHU or Fleet Units in the Operating Areas.

3. (a) *Search and Attack Group.* (a) Locate, report, and track all hostile surface units in position to take or threaten hostile action. Destroy hostile ships by air attack. Priority of targets: (1) carriers (2) large supporting ships. If choice of location is presented priority should be given to: (1) carrier involved in attack (2) vessels beyond reach of our surface vessel interception.

(b) *Air Combat Group.* (b) Operate as directed by the Commanding General Hawaiian Air Force.

(x) This plan is effective upon receipt. It is operative without signal in the event of a surprise attack on OAHU. It might be made operative by despatch. In the meanwhile conditions of readiness prescribed in Addendum II will be taken as directed by the Commanding General Hawaiian Department for Army units and by the Naval Base Defense Officer (Commandant Fourteenth Naval District) for Navy units. This plan supersedes and replaces Annex Baker of Naval Base Defense Force Operation Plan No. 1-41 of 27 February 1941. Units assigned to task groups of this plan shall make readiness reports in accordance with Addendum II of this plan.

4. The senior carrier commander based ashore at Fleet Air Detachment, PEARL HARBOR, shall at all times see that one division of VS planes is detailed to the Air Combat Group. When all carrier planes are to embark the Group Commander shall so inform the Commander Second Marine Aircraft Group, who will make the detail required by this paragraph.

5. Communications in accordance with Annex Easy to Naval [3] Base Defense Force Operation Plan No. 1-40 of 27 February 1941. Use zone plus ten and one half time. Operation orders for the search and attack group will be separately distributed.

Addendum I—Joint Estimate.

Addendum II—Aircraft Readiness.

P. N. L. BELLINGER,
Rear Admiral, U. S. Navy,
Commander Naval Base Defense Air Force,
(Commander Patrol Wing TWO)

Approved:

C. C. BLOCH,

Rear Admiral, U. S. Navy,

Commander Naval Base Defense Force,

Authenticated:

J. W. BAYS,

Lieutenant, U. S. Navy.

[1] C-A16-3/A4-3(5)/ND14(C348)

Confidential

MARCH 31, 1941.
COMMANDING GENERAL,
HAWAIIAN AIR FORCE,
Fort Shafter, T. H.

COMMANDER NAVAL BASE DEFENSE AIR FORCE,
COMMANDER PATROL WING TWO,
Naval Air Station,
Pearl Harbor, T. H.

Addendum I to Naval Base Defense Air Force Operation Plan No. A-1-41.

Joint estimate covering Joint Army and Navy air action in the event of sudden hostile action against OAHU or Fleet Units in the Hawaiian area.

1. *Summary of the Situation.*—(a) Relations between the United States and Orange are strained, uncertain, and varying.

(b) In the past Orange has never preceded hostile actions by a declaration of war.

(c) A successful, sudden raid, against our ships and Naval installations on OAHU might prevent effective offensive action by our forces in the Western Pacific for a long period.

(d) A strong part of our fleet is now constantly at sea in the operating areas organized to take prompt offensive action against any surface or submarine force which initiates hostile action.

(e) It appears possible that Orange submarines and/or an Orange fast raiding force might arrive in Hawaiian waters with no prior warning from our intelligence service.

II. *Survey of Opposing Strengths.*—(a) Orange might send into this area one or more submarines and/or one or more fast raiding forces composed of carriers supported by fast cruisers. For such action she is known to have eight carriers, seven of which are reported to be capable of 25 knots or over and four of which are rated at 30 knots or better. Two of the carriers are converted capital ships, armored and armed with 10-8' guns each and reported to have heavy AA batteries. Two others are small (7000 treaty tons) and limited to 25 knots. Exact information on numbers and characteristics of the aircraft carried by these ships is not available. However the best estimate at present available is that the small carriers can accommodate from 20 to 30 planes and the large ones

[2] about 60. Probably the best assumption is that carrier complements are normally about equally divided between fighter and bomber types. Lacking any information as to range and armament of planes we must assume that they are at least the equal of our similar types. There probably exist at least 12 eight inch gun and least 12 six inch gun fast modern cruisers which would be suitable supports. Jane's Fighting Ships (1939) shows over forty submarines which are easily capable of projection into this area. An Orange surface raiding force would be far removed from their base and would almost surely be inferior in gun power to our surface forces operating at sea in the Hawaiian area.

(b) The most difficult situation for us to meet would be when several of the above elements were present and closely coordinated their actions. The shore-based air force available to us is a constantly varying quantity which is being periodically augmented by reinforcements from the mainland and which also varies as fleet units are shifted. Under existing conditions about one-half of the planes present can be maintained in a condition of material readiness for flight. The aircraft at present available in Hawaii are inadequate to maintain, for any extended period, from bases on OAHU, a patrol extensive enough to insure that an air attack from an Orange carrier cannot arrive over OAHU as a complete surprise. The projected outlying bases are not yet in condition to support sustained operations. Patrol planes are of particular value for long range scouting at sea and are the type now available in this area best suited for this work. If present planes are used to bomb well defended ship objectives, the number available for future use will probably be seriously depleted. In view of the continuing need for long range overseas scouting in this area the missions of those planes for operations as contemplated in this estimate should be scouting. Certain aircraft of the Utility Wing, although not designed for combatant work, can be used to advantage in augmenting the scouting of patrol planes. Other types of aircraft, in [3] general, can perform functions that accord with their type.

III. *Possible Enemy Action.*—(a) A declaration of war might be preceded by:

1. A surprise submarine attack on ships in the operating area.
2. A surprise attack on OAHU including ships and installations in Pearl Harbor.
3. A combination of these two.

(b) It appears that the most likely and dangerous form of attack on OAHU would be an air attack. It is believed that at present such an attack would most likely be launched from one or more carriers which would probably approach inside of three hundred miles.

(c) A single attack might or might not indicate the presence of more submarines or more planes awaiting to attack after defending aircraft have been drawn away by the original thrust.

(d) Any single submarine attack might indicate the presence of considerable undiscovered surface force probably composed of fast ships accompanied by a carrier.

(c) In a dawn air attack there is a high probability that it could be delivered as a complete surprise in spite of any patrols we might be using and that it might find us in a condition of readiness under which pursuit would be slow to start, also it might be successful as a diversion to draw attention away from a second attacking force. The major disadvantage would be that we could have all day to find and attack the carrier. A dusk attack would have the advantage that the carrier could use the night for escape and might not be located the next day near enough for us to make a successful air attack. The disadvantage would be that it would spend the day of the attack approaching the islands and might be observed. Under the existing conditions this might not be a serious disadvantage for until an overt act has been committed we probably will take no offensive action and the only thing that would be lost would be complete surprise. Middy attacks have all the disadvantages and none of the advantages of the above. After hostilities have commenced, a night attack would offer certain advantages but as an initial crippling blow a dawn or dusk attack would probably be no more hazardous and would have a better chance for accomplishing a large success. Submarine attacks could be coordinated with any air attack.

IV. *Action open to us:* (a) Run daily patrols as far as possible to seaward through 360 degrees to reduce the probabilities of surface or air surprise. This would be desirable but can only be effectively maintained with present personnel and material for a very short period and as a practicable measure cannot, therefore, be undertaken unless other intelligence indicates that a surface raid is probable within rather narrow time limits.

(b) In the event of any form of surprise attack either on ships in the operating areas or on the islands:

1. Immediate search of all sea areas within reach to determine the location of hostile surface craft and whether or not more than one group is present.

2. Immediate arming and preparation of the maximum possible bombing force and its dispatch for attack when information is available.

(c) In the event of an air attack on OAHU, in addition to (b) above:

1. The immediate despatch of all aircraft suitable for aerial combat to intercept the attackers.

2. The prompt identification of the attackers as either carrier or long range shore based aircraft.

3. The prompt dispatch of fast aircraft to follow carrier type raiders back to their carrier.

[5] (d) In the event of a submarine attack on ships in the operating area in addition to (b) above:

1. Hold pursuit and fighter aircraft in condition of immediate readiness to counter a possible air raid until search proves that none is imminent.

2. Despatch armed shore based fleet aircraft to relieve planes in the air over the attack area.

3. Establish a station patrol by patrol planes two hundred twenty mile radius from scene of attack at one hour before daylight of next succeeding daylight period.

(e) None of the above actions can be initiated by our forces until an attack is known to be imminent or has occurred. On the other hand, when an attack develops time will probably be vital and our actions must start with a minimum of delay. It therefore appears that task forces should be organized now, missions assigned, conditions of readiness defined and detailed plans prepared so that coordinated immediate action can be taken promptly by all elements when one of the visualized emergencies arises. To provide most effectively for the necessary immediate action, the following joint task units will be required:

1. Search Unit.

2. Attack Unit.

3. Air Combat Unit.

Carrier scouts, army reconnaissance and patrol planes can be employed with very widely varying effectiveness, either for search or attack. Under varying conditions some shifts of units between the search and attack groups may be desirable. Also, the accomplishment of these two tasks must be closely coordinated and therefore these two groups should be controlled by the same task group commander.

V. *Decisions:* 1. This force will locate and attack forces initiating hostile actions against OAHU or fleet units in order to prevent or minimize damage to

our forces from a surprise attack and to obtain information upon which to base coordinated retaliatory measures.

[6] 2. *Subsidiary decisions.* In order to be in all respects prepared to promptly execute the above decision:

(a) Establish a task organization as follows by the issue of a joint air operation plan:

1. *Search and Attack Group (Commander Naval Base Defense Air Force (Commander Patrol Wing TWO))*

The following units in accordance with current conditions of readiness:

Patrol squadrons.

Shore-based VO-VS units.

Shore-based carrier VB and VT squadrons.

Shore-based carrier VS planes not assigned to the air combat group.

Shore-based Marine VS and VB squadrons.

Army bombardment squadrons.

Army reconnaissance squadrons.

Navy Utility squadrons.

2. *Air Combat Group (Commander Hawaiian Air Force)*

The following units in accordance with current conditions of readiness:

Army pursuit squadrons.

Shore-based carrier VF squadrons.

Shore-based Marine VF squadrons.

One division of shore-based carrier VS planes. (Primarily for trailing aircraft)

(b) Assign missions to the above groups as follows:

1. *Search and Attack Group.* Locate, report and track all hostile, surface units in position to take or threaten hostile action. Destroy hostile ships by air attack. Priority of targets: (1) carriers (2) large supporting ships. If choice of location is presented priority should be given to: (1) carrier involved in attack (2) vessels beyond reach of out surface vessel interception.

2. *Air Combat Group.* Intercept and destroy hostile aircraft. Identify and report type of attacking aircraft. Trail [7] attacking carrier type planes to carrier and report location to commander search and attack group. As a secondary mission support search and attack group upon request.

(c) Provide a means for quickly starting all required action under this plan when:

(a) An air attack occurs on OAHU.

(b) Information is received from any source that indicates an attack is probable.

(c) Information is received that an attack has been made on fleet units.

(d) Define conditions of readiness for use with this plan as follows:

Conditions of readiness shall be prescribed by a combination of a letter and number from the tables below. The letter indicating the part of a unit in a condition of material readiness for its assigned task and the number indicating the degree of readiness prescribed for that part.

Material readiness

A. All assigned operating aircraft available and ready for a task.

B. One-half of all aircraft of each functional type available and ready for a task.

C. Approximately one-quarter of all aircraft of each functional type available and ready for a task.

D. Approximately one-eighth of all aircraft of each functional type available and ready for a task.

E. All aircraft conducting routine operations, none ready for the purpose of this plan.

Degree of readiness

1. For pursuit and VF types—four minutes.

Types other than fighters—fifteen minutes.

2. All types—30 minutes.

3. All types—one hour.

4. All types—two hours.

5. All types—four hours.

The armament and fuel load for each type under the [8] above conditions of readiness are dependent upon the tasks assigned in contributory plans and orders and will be prescribed therein.

(e) Establish a procedure whereby the conditions of readiness to be maintained by each unit is at all times prescribed by the Senior Officers Present of the Army and Navy as a result of all information currently available to them. In using the above conditions it should be noted that: CONDITION A-1 requires a preparation period of reduced operations and can be maintained for only a short time as it is in an all hands condition. CONDITION B-1 and B-2 require watch and watch for all personnel and personnel fitness for air action will decrease rapidly if they are maintained too long. Any Condition 1, 2, or 3 will curtail essential expansion training work. CONDITIONS C, or D, 4 or 5 can be maintained without unduly curtailing normal training work.

(f) In order to perfect fundamental communications by use and to insure that prospective Task Group Commanders at all times know the forces immediately available to them for use, under the plan above, in case of a sudden emergency, provide, for daily dispatch readiness reports as of the end of normal daily flying from all units to their prospective task force commander. These reports to state:

(a) Number of planes in the unit by functional types such as bomber, fighter, etc.

(b) Number of each type in commission for flight and their degree of readiness as defined above.

(g) After the joint air operations plan under subsidiary decision (a) above has been issued, the task group commanders designated therein will prepare detailed contributory plans for their groups to cover the various probable situations requiring quick action in order that the desired immediate action in an emergency can be initiated with no further written orders. To assist in this work the following temporary details will be made:

[9] (a) By Commander Naval Base Defense Air Force (Commander Patrol Wing TWO): an officer experienced in VF and VS operations and planning to assist the Commander of Air Combat Group.

(b) By the Commander Hawaiian Air Force: an officer experienced in Army bombardment and reconnaissance operations and planning to assist the Commander of the Search and Attack Group.

F. L. MARTIN,
Major General, U. S. Army,
Commanding Hawaiian Air Force.

P. N. L. BELLINGER,
Rear Admiral, U. S. Navy,
Commander Naval Base Defense Air Force,
(Commander Patrol Wing TWO)

Authenticated:

J. W. BAYS,
Lieutenant, U. S. Navy.

[1] C-A16-3/A4-3(5)/ND14 (0348)

Confidential

BASE DEFENSE AIR FORCE, PATROL WING TWO
FLEET AIR DETACHMENT, NAVAL AIR STATION,
Pearl Harbor, T. H., April 9, 1941.

ADDENDUM II TO NAVAL BASE DEFENSE AIR FORCE OPERATION PLAN No. A-1-41

CONDITIONS OF READINESS AND READINESS REPORTS

1. Conditions of readiness will be prescribed by a combination of a letter and a number from the tables below. The letter indicating the part of a unit in a condition of material readiness for its assigned task and the number indicating the degree of operational readiness prescribed for that part.

MATERIAL READINESS

- A. All assigned operating aircraft available and ready for a task.
- B. One-half of all aircraft of each functional type available and ready for a task.
- C. Approximately one-quarter of all aircraft of each functional type available and ready for a task.
- D. Approximately one-eighth of all aircraft of each functional type available and ready for a task.
- E. All aircraft conducting routine operations, none ready for the purposes of this plan.

DEGREE OF OPERATIONAL READINESS

All times listed in this table are the maximums allowed for the first plane of a unit to be in the air armed and proceeding with the assigned task.

- 1. For pursuit and VF types—four minutes. Types other than fighters—fifteen minutes.
 - 2. All types—30 minutes.
 - 3. All types—one hour.
 - 4. All types—two hours.
 - 5. All types—four hours.
2. The armament and fuel load for each type under the above conditions of readiness are dependent upon the task assigned in contributory plans and orders and will be prescribed in these.

3. *Readiness Reports:*

(a) A despatch readiness report, as of 1500 each day shall be made by each unit assigned to a task group by this plan as follows:

(1) Units of "Search and Attack Group" to the Commander Naval Base Defense Air Force (Commander Patrol Wing TWO).

(2) Units of the "Air Combat Group" to the Commanding General of the Hawaiian Air Force via Commander Naval Base Defense Air Force.

(b) These reports shall state:

(1) The number of operating planes in the unit by functional types as bomber, fighter, etc.

(2) The number of each type in material readiness for flight and their degree of operational readiness as defined above.

(c) The officer detailing VS planes to the Air Combat Unit (paragraph 4 of N. B. D. A. F. plan No. A-1-41) shall inform the Commander Naval Base Defense Air Force and Commanding General Hawaiian Air Force by despatch of the detail and any changes therein.

File C-A16-3/A4-3(5)/ND14(0164)

Confidential

OPERATION PLAN NO. 1-41, ANNEX "C"

ANTIAIRCRAFT DEFENSES

Task organizations

(a) *Group One:* All ships in PEARL HARBOR assigned by Pacific Fleet Confidential Letter No. 2CL-41 to Sector I.

(b) *Group Two:* Those so assigned to Sector II.

(c) *Group Three:* Those so assigned to Sector III.

(d) *Group Four:* Those so assigned to Sector IV.

(e) *Group Five:* All antiaircraft units of Defense Battalions of the Marine Corps present.

1. *Information:* See Pacific Fleet Confidential Letter No. 2CL-41, Fourteenth Naval District Operation Plan 1-41 and OCABF-38. Information on special situations as they arise will be furnished to all units in accordance with the Communication Plan, Annex "E".

2. All naval forces of the Fourteenth Naval District and those of the U. S. Fleet in insular waters will support the Army antiaircraft defense of OAHU: (1) by gun fire, (2) by antiaircraft watches, and (3) by furnishing RADAR service when available.

3. (a) *Groups One to Four, inclusive:* Assume defense missions and defense conditions in accordance with the provisions of Pacific Fleet Confidential Letter No. 2CL-41.

(b) *Group Five:* Report to Commanding General, Provisional Antiaircraft Brigade for tactical assignment. Conform to conditions of readiness prescribed for that brigade.

4. *Logistics: Group Five:* Classes 1, 2 and 3 Supplies—normal. Ammunition, except for infantry weapons, to be furnished by COM 14.

5. *Group Five: Command Post:* To be announced later.

H. K. PICKETT,
Colonel, U. S. Marine Corps,
District Marine Officer.

Approved:

C. C. BLOCH,
Rear Admiral, U. S. Navy,
Commander Naval Base Defense Force,
Commandant, 14th Naval District).

[1] File A16-3/A4-3(5)/ND14(0164)
Confidential

HEADQUARTERS, NAVAL BASE DEFENSE FORCE

FOURTEENTH NAVAL DISTRICT

OPERATION PLAN No. 1-41, ANNEX "D"

PEARL HARBOR, T. H.,
5 March 1941.

TASK ORGANIZATION

(a) Harbor Control Post. District Operations Officer.

1. *Information.* As in basic plan No. 1-41. The Harbor Control Post has been established in the Operations Office, Fourteenth Naval District, in a modified form. The Army has provided telephone connections to the various Army circuits listed herein, and will maintain a suitable watch at their various stations; the Hawaiian Separate Coast Artillery Brigade will endeavor to provide the Harbor Control Post with a teletype connecting into the HSCAB loop, and operator for same. Army officer personnel and secretaries for the Harbor Control Post will be provided from available personnel from HSCAB as needed. Army observation (lookout) stations around the island of OAHU will be manned as required and Army defense units will be placed in the condition of "alert" considered necessary. The water area under the cognizance of the Harbor Control Post embraces the OAHU Defensive Coastal Area, with particular interest in the area south of OAHU, and will be known as the Control Post Area.

2. This Harbor Control post will train personnel and operates in a modified form in accordance with OpNav serial 041230 in the establishment of security measures as necessary for the joint protection of PEARL HARBOR Base in order to safeguard the Fleet.

3. (a) *Harbor Control Post.* (1) In conjunction and cooperation with the Army and Navy units listed below, man as necessary and operate the following direct telephone connections:

Harbor Control Post to

Hqtrs. Haw'n Dept., FT. SHAFTER
Hqtrs. HSCAB, FT. DERUSSY
Command Post, FT. KAMEHAMEHA
Command Post, HICKAM FIELD
Commander Patrol Wing TWO
SOPE (if at dock)
Navy Yard Signal Tower
Navy Yard Power House

(2) In conjunction with Army and Navy reporting, communication, and intelligence agencies be prepared to "alert" Army and Navy forces against aircraft, or other surprise attack, and assist in coordinating their defense measures. Direct Yard Power [2] House when to sound air raid and blackout alarms and the secure signal.

(3) Report promptly any action taken to immediate Superiors in Command, Army and Navy, and keep them advised of all known developments.

(4) In conjunction with Commander Inshore Patrol, Captain of the Yard, and District Public Works Officer keep the Army Harbor Defenses informed of authorized ship movements within the Control Post Area.

(x) (1) All personnel of Harbor Control Post will become familiar with the Communication Plan, Annex "E", and be prepared to direct Power House as to signal to be used (See paragraph 6000, *Special Signals*.)

(2) Obtain from Commander Inshore Patrol the day-by-day list of Patrol and mine sweeping vessels under his command. Maintain up to date data on Army-Navy defenses and Conditions of Readiness.

(3) This annex will be revised from time to time as operating experience is gained, facilities are increased, and conditions change.

4. (1) Telephone switchboard watch standers will be provided from the enlisted personnel of the Organized Reserves on active duty. Until such time as watch standers are available to the Operations Officer, the necessary officer watch standing duties after working hours, will be carried out by the District and Navy Yard Duty Officer.

(2) The following Conditions of Readiness are prescribed for the Harbor Control Post:

Condition I Post fully manned and ready to operate in all respects.

Condition II Post manned by Army and Navy watch officers, telephone and teletype operators on watch.

NOTE: Conditions I and II are "Alert" conditions.

Condition III Normal condition. Telephone operator on watch. District and Yard Duty Officer on call.

[3] 5. (1) The Harbor Control Post may be called on any of the telephones listed in paragraph 3. (a) (1). The District Operations Officer may be reached over these telephones during working hours, and over dial phones 411 and 508; after working hours on Honolulu 75148.

(2) Use zone plus ten and one half time.

(3) District Operations Officer at Harbor Control Post (District Operations Office), headquarters, Fourteenth Naval District.

H. B. Knowles
H. B. KNOWLES,
Commander, U. S. Navy,
District Operations Officer.

Approved:

C. C. Block,

C. C. BLOCH,

Naval Base Defense Officer,

(Commandant, Fourteenth Naval District)

Distribution:

In accordance with Distribution List of Operating Plan No. 1-41

[1] ANNEX EASY TO OPERATION PLAN NO. 1-41 (MODIFICATION NO. 1)

Communication Plan—July 19, 1941

This plan supersedes Annex Easy to Operation Plan No. 1-41.

1100 *General*.

In order that Commandant, Fourteenth Naval District, may coordinate the defense, it is necessary that he have a means for instantly communicating with every vessel and shore activity of the district and with responsible senior officers present in Pearl Harbor.

1111 The Hawaiian Separate Coast Artillery Brigade maintains an Army Anti-aircraft information Service centered at A. A. A. Brigade Headquarters, Fort Shafter, which broadcasts information of enemy aircraft by voice on 900 kc. This information is also vital to all activities including Fleet units present in Pearl Harbor. In order to simplify communications and avoid multiplicity of circuits, Commandant, Fourteenth Naval District (NBDO), will establish a Fox

series on 900 kc. using radio telegraph with a modulated CW Transmitter. These transmissions can be copied on an ordinary broadcast receiver which even small vessels should be able to provide. For the present only the SOPE and Sector commanders are required to guard this frequency. All other vessels should guard this frequency is practicable, especially those having anti-aircraft batteries.

1112 The destroyer patrol will use the Joint Army and Navy Inshore Patrol frequency of 2550 kc. The commander of the Pearl Harbor Groupment probably will have a radio station on this circuit which will normally receive only.

1113 Information of hostile or potentially hostile forces acquired by Fleet forces in operating areas must be reported to Commandant, Fourteenth Naval District (NBDO), promptly. This can most easily be done on the Ship-Shore frequency (355 kc).

1120 This modification effective upon receipt.

1130 USE ZONE PLUS 10 and 1/2 TIMES.

[2] 1150 RADIO SILENCE.

There will be no restriction upon the use of circuits set up herein, prior to an ALERT, except in care of an emergency. During an ALERT or an emergency, radio silence will be maintained except for contact reports, amplifying reports and tactical orders, instructions or reports.

1170 CONTACT REPORTS made by units under this command will be addressed to Commandant, Fourteenth Naval District (NBDC), call sign W2X. Fleet units operating outside Pearl Harbor will include Commandant, Fourteenth Naval District (NBDC), as an information addressee. Evaluated information will be placed on Army and Navy Joint teletype or wire loops, and if desirable on Local Fox method circuit. All contact reports concerning hostile aircraft or carriers within 250 miles of Oahu will be made in plain language. Contact reports of enemy surface or submarine forces within 50 miles of Oahu will be made in abbreviated plain language. (See USF 70, Article 1178).

1180 Visual signalling by day will be by searchlight, Flag Hoist or Semaphore. At night use blinker tube if practicable. Ships should refrain from using searchlights at night except in emergencies. Visual signalling prohibited during blackout.

2430 AUTHENTICATORS will be used when challenge is made by receiving station. All contact reports will be challenged. Units directly under Commandant, Fourteenth Naval District (NBDC), including Destroyer Patrol will use SOI No. 27-7 (Joint) of December 16, 1940. Fleet units should use these grids when communicating with shore radio stations of Army and Navy. Copies of SOI 27-7 (Joint) herewith.

2500 RADIO CALL SIGNS.

Units operating directly under command of Commandant, Fourteenth Naval District (NBDC), will use call signs provided in Signal Operating Instruction (SOI No. 43-8 (Joint)) effective April 1, 1940. Same call will be used for Visual and Radio. Copies of SOI No. 43-8 (Joint) herewith.

DESTROYER-PATROL

| | |
|-----------------------------|-----|
| Inner DD Patrol..... | N5F |
| (Inshore Patrol Station #1) | |
| Outer DD Patrol..... | J5Y |
| (Inshore Patrol Station #2) | |

The following calls from SOI No. 43-8 are assigned. All stations enter under NAVY on Page 5.

| | |
|-------------------------------|-----|
| [3] ALL SWEEPERS..... | V5Z |
| Sweeper No. 1 (magnetic)..... | V1Y |
| Sweeper No. 2 (Anchored)..... | V7P |
| Sweeper No. 3 (Anchored)..... | K2Q |

5000 DESTROYER PATROL

(a) When patrol is on station, patrol commander report assumption of patrol being relieved. Relieved unit will then secure on patrol frequency.

(b) Guard effective Fox schedules when so ordered. Normally, Vailupe guards Fox schedules for destroyer patrol.

(c) Destroyer patrol will use CSP-1023 and CSP-1024.

6600 CRYPTOGRAPHIC AIDS

1308 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

The following cryptographic aids are authorized for Joint Army and Navy use:

| For Use Among— | Contact Code | Aircraft Code | General Cipher | D/F Code |
|--|-------------------------------|-------------------------|--|----------|
| All stations less aircraft----- | CSP 680 CSP 696 CSP 697 | ----- ----- ----- | CSP 642 CSP 645 *CSP 732 *CSP 733 | USF 64 |
| Aircraft (plus air-ground communications)----- | CSP 680 CSP 696 CSP 697 | USF 66 | ----- | USF 66 |

*Army Short Title—"SIG NOG".

Note: By special arrangement, Busdefairfor and Hawaiian Air Force are authorized to use CSP-740 when operating jointly.

7000 HARBOR PATROL.

Very pistol signals will be employed by Harbor Patrol (Motor Boats) as follows:

- (1) General Alarm----- One White Star (may be repeated at intervals)
- [4] (2) Require Assistance----- Two White Stars (repeated at intervals until certain it has been observed)
- (3) All Clear----- One White Star Followed by Two White Stars Simultaneously.

8000 SPECIAL SIGNALS.

(1) AIR RAID ALARMS

SIGNAL

MEANING

- (a) *Yard Whistle*
1 long blast 30 sec
Interval 25 sec
1 Short Blast 5 sec
PREPARE for Air Raid—If at night—BLACK OUT (See Blackout procedure 14th ND Order No. 20-40)

This signal to be repeated by one ship in each sector (PACFLT Conf. letter 20L-41) as designated by Sector Commander.

(b) STREET LIGHTS (at night)

- (1) Flashed 3 times
(Simultaneous with start of whistle signal) PREPARE for Air Raid
- (2) Remain dark 5 sec BLACKOUT
- (3) Lighted for 10 sec
- (4) Extinguished

(c) SIGNAL TOWER

Appropriate Emergency hoist (day only) Be prepared for attack by enemy aircraft

RADIO CIRCUITS

Transmit on 900 and 355 kc in plain English Urgent Precedence "AIR RAID" (number and type of planes will be given if possible)

[5] (d) TELEPHONE

Yard duty officer:

- Notify FAD Lualualoi—phone 954
- Notify Radio Lualualoi—phone 976
- Notify Old Naval Station—phone 449

(2) *ALL CLEAR SIGNALS*

| SIGNAL | MEANING |
|---|-----------|
| (a) <i>Yard Whistle</i> 3 long blasts | All clear |
| (b) <i>Street Lights</i> Turned on as first long whistle blast is sounded | All clear |
| (c) <i>Signal Tower</i> Same signal as (1) (c) under negative | All clear |

(d) *Radio Circuits*

The all clear signals will be followed by a despatch on all circuits "All Clear".
CAUTION: Radio despatch must not be relied upon unless confirmed by other methods.

8000 *DRILLS*

(a) When drills are held they will be preceded by a despatch "Prepare for air raid drill".

(b) All despatches and orders in conduct of drills will be preceded by word "drill".

(c) The all clear signal terminating the drill will be followed by despatch "Air Raid Drill Completed".

This messages will be transmitted on all air raid circuits.

(d) *CAUTION*.—Radio despatch terminating drill or actual raid must not be relied upon unless confirmed by other methods.

(At this point in Exhibit No. 53 there appears a Radio Frequency Plan for the Fourteenth Naval District, which will be found reproduced as Item No. 13, EXHIBITS-ILLUSTRATIONS, Navy Court of Inquiry. These illustrations are bound together following the printed exhibits of the Navy Court of Inquiry.)

CONFIDENTIAL

SIGNAL OPERATION INSTRUCTIONS
VERIFICATION GRIDS
No. 27-7 (JOINT)

14th Naval District,
PEARL HARBOR, T. H.,
9 December 1940.

Hawaiian Department,
FORT SHAFTER, T. H.,
9 December 1940.

Effective 0001, 16 December 1940.

Destroy previous issue No. 27-6 and supplement

1. VERIFICATION CODE.

a. All radio stations receiving messages from another radio station must be prepared to challenge or obtain verification as to the authenticity of the transmitting station.

b. Inasmuch as the present verification system becomes unsafe after a few challenges and replies have been intercepted it is necessary to restrict the use of this grid system to challenges when in an emergency situation the station receiving a message, for some reason actually suspects the authenticity of the transmitting station. The verification system should be used in training exercises but not more than once in 24 hours by each station.

c. The transmission of ZWA in joint Army Navy Radio Operations during an actual emergency will be challenged.

1310 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

d. The method of verification is as follows: Two letters, not on the same line or column, will be selected at random from the daily grid by the receiving station and sent as a challenge. The original transmitting station will take the other two letters which complete the rectangle, the first letter being on the same line as the first letter of the challenge, and reply to the challenge. *EXAMPLE*:— AB receives a message from EF on the first day of the month. If the message has been received without error but AB for some reasons suspects the authenticity of the station AB will select a group at random from the first day grid such as DY. AB will then transmit "R II DY II K". If EF is the authentic station the available grid will disclose that or complete the diagonal, EF will therefore reply "OV VA". If AB transmits: "R II YD II K" the reply on the date in question would be: "VO VA".

2. VERIFICATION GRIDS:

a. The following grids are effective each month of the year at 0001 for the date specified;

| 1ST | 2ND | 3RD | 4TH | 5TH |
|-----------|-----------|-----------|-----------|-----------|
| S W L R K | K H O S L | N M U X K | L F Z W G | B P Y A Q |
| N V B F Y | W H Q D B | P B A L I | A X P M B | F U W C S |
| T E P C U | U Z A V C | O Y T Q S | N I L K U | X C G L N |
| X D I G O | P E Y X G | C V D H R | Y T O Q S | D Z H K I |
| Q Z A H M | J T M R F | E Z F W G | V H D R C | H R T D V |

[2]

| 6TH | 7TH | 8TH | 9TH | 10TH |
|-----------|-----------|-----------|-----------|-----------|
| E Q F B N | P B Q N U | W Q A Y I | C Z A L S | L O X H A |
| V P K A Y | X A F G S | O L R V F | D V W E G | I Q Y C R |
| X Z U C D | B V E E W | P B T S M | D X I C M | W K Z N S |
| L S I H O | Z Y I C L | U Z K E K | P F Q U H | V D B F G |
| R W M T G | N T Q K R | C H N G D | N X Y R T | E F T O U |

| 11TH | 12TH | 13TH | 14TH | 15TH |
|-----------|-----------|-----------|-----------|-----------|
| O G R N Q | D K H X B | E M G K A | A U Y Q M | A O H X Z |
| K F B X Y | P C E U F | D N Y C F | O R C S X | N R V K C |
| H A D T W | A T Q S Y | P I B X T | Z P F D W | Y E J L T |
| I L C H S | M R C Z I | V Q S R U | V I K M L | F D Q U M |
| P L V U Z | V W N G L | O Z L H W | N T B G E | G D W S F |

| 16TH | 17TH | 18TH | 19TH | 20TH |
|-----------|-----------|-----------|-----------|-----------|
| T C E F P | Z S V T X | P N Y V U | X R P F V | D M V L U |
| O U Z R N | M F O G Q | T K O C Z | Q Y Z I O | S N I Q T |
| L Q W M V | B D W C Y | I L S B E | E C W D B | O R F A E |
| H Y D A X | H P E I U | X P Q H D | T N E H U | Y W B X Z |
| B S K I G | N A K L R | A F W H M | L G A S K | H V C G P |

| 21ST | 22ND | 23RD | 24TH | 25TH |
|-----------|-----------|-----------|-----------|-----------|
| L Z U K V | I X F U W | B D C T W | O B P N U | P O B W L |
| R H A O G | M Y L N T | G L R Z U | W H E R C | M E Z Y G |
| Q D M T P | D G Z O H | K N X I M | T G K Z F | X C K V U |
| X C S E W | S K P R V | Q Y V H F | S D V X Q | D A F H N |
| B I F N Y | Q A C E B | P S C E A | Y M I L A | T Q R I S |

| 26TH | 27TH | 28TH | 29TH | 30TH |
|-----------|-----------|-----------|-----------|-----------|
| N E A Z W | O I D F V | A H Q I Y | S F A T R | U A G K X |
| R V X Y Q | P Y T U E | U Z V R N | O Y D M K | P Z T M I |
| C H L G B | N C G A S | F C D E B | G X E M W | R Y L B E |
| T M D I F | X R H W K | W S G M P | U N I V P | V S W D C |
| X U S O P | Z L Q M B | T X L M O | C Q Z B L | O F E Q N |

31ST
 S M Q Y P
 E U L A K
 V T K F R
 W M D Z O
 D C I N C

b. Only such grids will be furnished as are necessary for a single flight or mission.

By order of Rear Admiral BLOCH and Lieutenant General HERRON:

J. W. LEWIS,
Captain, U. S. N.
Chief of Staff.

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

Checked by:

W. E. Guitar,
 W. E. GUITAR,
Lt. Comdr., U. S. N.

OFFICIAL:

R. C. THROCKMORTON,
Lt. Col., General Staff Corps,
Assistant Chief of Staff, G-3.

[1]

RESTRICTED

SIGNAL OPERATION INSTRUCTIONS

RADIO CALL SIGNS

(No. 43-8 Joint)

14th Naval District,
 Pearl Harbor, T. H.

Effective April 1, 1941
 (Destroy all previous copies)

Hawaiian Department
 Fort Shafter, T. H.

1. The following call signs for tactical Radio Stations and Nets and no others will be used in the Hawaiian Department and the 14th Naval District unless changed by this or higher Headquarters.

| <i>Station or Net</i> | <i>Call</i> | <i>Station or Net</i> | <i>Call</i> |
|-------------------------|-------------|-------------------------------|-------------|
| Hawaiian Department | DH9 | 35th Inf. Hdqts. | PW7 |
| Hawaiian Department Net | 5CP | 35th Inf. Net | 7VW |
| Hawaiian Division Hdqts | 3DV | 1st Bn. 35th Inf. | YX5 |
| Hawaiian Division Net | 7LW | 2nd Bn. 35th Inf. | 1XQ |
| 21st Brigade Hdqts. | 2FC | 3rd Bn. 35th Inf. | IQ1 |
| 21st Brigade Net | EU7 | 35th Inf. Motor | |
| 19th Inf. Hdqtrs | 5DK | Patrol & O. P. Net | C24 |
| 19th Inf. Net | B88 | Patrol or O. P. #1 | FK5 |
| 1st Bn. 19th Inf. | 7FU | Patrol or O. P. #2 | JB8 |
| 2nd Bn. 19th Inf. | XC2 | Patrol or O. P. #3 | 5LK |
| 3rd Bn. 19th Inf. | HQ1 | 298th Inf. Hdqtrs | 1MG |
| 19th Inf. Motor | | 298th Inf. Net | 6UN |
| Patrol & O. P. Net | 1TQ | 1st Bn. 298th Inf. | G15 |
| Patrol or O. P. #1 | MK5 | 2nd Bn. 298th Inf. | 1QG |
| Patrol or O. P. #2 | W76 | 3rd Bn. 298th Inf. | 5ZR |
| Patrol or O. P. #3 | 7QW | 11th Field Art. Brigade Hdqts | 7YW |
| 21st Inf. Hdqts | TQ1 | 11th Field Art. Brigade Net | DW7 |
| 21st Inf. Net | 2UC | 8th Field Art. Hdqts | 7WU |
| 1st Bn. 21st Inf. | SW7 | 8th Field Art. Net | C29 |
| 2nd Bn. 21st Inf. | RB8 | 1st Bn. 8th F. A. Hdq. | 8RB |
| 3rd Bn. 21st Inf. | 8QB | 1st Bn. 8th F. A. Liaison | U75 |
| 21st Inf. Motor | | 1st Bn. 8th F. A. Liaison | 7EU |
| Patrol and O. P. Net | U78 | 1st Bn. 9th F. A. Liaison | QU7 |
| Patrol or O. P. #1 | 7NU | 1st Bn. 8th F. A. Liaison | 8VB |
| Patrol or O. P. #2 | 1HQ | 2nd Bn. 8th F. A. Hdq. | RC1 |
| Patrol or O. P. #3 | M56 | 2nd Bn. 8th F. A. Liaison | 5BK |
| Scout Car | 5CK | 2nd Bn. 8th F. A. Liaison | 7CW |
| 299th Inf. Hdqts. | WN6 | 2nd Bn. 8th F. A. Liaison | 2EC |
| 299th Inf. Net Call | 1RG | 2nd Bn. 8th F. A. Liaison | 7WW |
| 1st Bn. 299th Inf. | AK9 | 11th Field Art. Hdqts | BC2 |
| 2nd Bn. 299th Inf. | K98 | 11th Field Art. Net | CC2 |
| 3rd Bn. 299th Inf. | 5FP | 11th F. A. Liaison | 7PU |
| 22nd Brigade Hdqts | CU7 | 11th F. A. Liaison | 2AC |
| 22nd Brigade Net | SK5 | 1st Bn. 11th F. A. Hdq. | HBS |
| 27th Inf Hdqts | OQ1 | 1st Bn. 11th F. A. Liaison | R33 |
| 27th Inf. Net | 27C | 1st Bn. 11th F. A. Liaison | R1E |
| 1st Bn. 27th Inf. | W73 | 2nd Bn. 11th F. A. Hdq. | MU7 |
| 2nd Bn. 27th Inf. | CC2 | 2nd Bn. 11th F. A. Liaison | JQ1 |
| 3rd Bn. 27th Inf. | 71W | 2nd Bn. 11th F. A. Liaison | W72 |
| Scout Car | 8XB | 2nd Bn. 11th F. A. Liaison | KU7 |
| | | 2nd Bn. 11th F. A. Liaison | 2ZC |

1312 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

| <i>Station or Net</i> | <i>Call</i> |
|-------------------------------------|-------------|
| 13th Field Art. Hqs. | 2NC |
| 13th Field Art. Net | LC2 |
| 1st Bn. 13th F. A., Hdq. | B87 |
| 1st Bn. 13th F. A. Liaison | 7GU |
| 1st Bn. 13th F. A. Liaison | SYB |
| 1st Bn. 13th F. A. Liaison | QBS |
| 1st Bn. 13th F. A. Liaison | VQ1 |
| 2nd Bn. 13th F. A. Hdq. | DK5 |
| 2nd Bn. 13th F. A. Liaison | 5JK |
| 2nd Bn. 13th F. A. Liaison | Q19 |
| 2nd Bn. 13th F. A. Liaison | AB8 |
| 2nd Bn. 13th F. A. Liaison | 2WC |
| 11th Tank Co. Comd. Car Hq | TK5 |
| Net | C25 |
| 1st Plat. Comm Car | 7RU |
| 2nd Plat. Comm Car | U77 |
| 3rd Plat. Comm Car | 1BQ |
| Haw. Sep. Coast Art. Brig. Hq. | DR5 |
| Haw. Sep. Coast Art. Brig. Net | 9XK |
| Pearl Harbor Grpmt Hdq 15 CA | KP5 |
| Pearl Harbor Grpmt Net | 9GK |
| Aaau Grp Hdq inactive | YM4 |
| Ewa Grp Hdq 1st Bn. 55 CA | 4LM |
| Kamehameha Grp inactive | 98K |
| Puu O Hulu Gr Hq 1st Bn. 41CA | VK9 |
| Puu O Hulu Gt. Net | JK9 |
| A Btry. 41 CA | 5PP |
| Btry. Closson B Bty. 15 CA | FM4 |
| Barrette Grp Hdq 1st Bn. 15 CA | 2XZ |
| Barrette Grp Net | LZ2 |
| Btry. Williston A. bty 15 CA | 2FZ |
| Btry. Hatch C Bty 15th CA | G14 |
| Honolulu Grpmt Hq. 16 CA | 6VN |
| Honolulu Grpmt. Net | PN6 |
| Diamond Hd. Hdq. 16 CA | X41 |
| Leaai Grp Hq. inactive | BZ2 |
| Punchbowl Grp. Hq. inactive | 9PK |
| Ulupau Grp. Hd. D bty 16 CA | 6IN |
| North Shore Grpmt Hq. 2nd Bn. 55 CA | RZ2 |
| North Shore Grpmt Net | M41 |
| Haleiwa Grp. inactive | IM4 |
| Kaikuu inactive | Z21 |
| 41 CA | GP5 |
| Provisional AA Brig Hq 64 CA | BG1 |
| Provisional AA Brig Net | 68N |
| AA Gun Grpmt Hq. 64 CA | QP5 |
| AA Gun Grpmt. Net | DN6 |
| North Grp 1st Bn. 64 CA | 6YN |
| South Grp 2nd Bn. 64 CA | G19 |
| East Grp Dia Hd Grp 16 CA | X41 |
| West Grp C bty. 15 CA | G14 |
| Schofield AA Comd Hdq. 251 CA | CM4 |
| Schofield AA Comd Net | I55 |
| Schof. Gun Grp 1st Bn. 251 CA | 5EP |
| Searchlight Grp | 5KP |
| A. W. Grp 2nd Bn. 251 CA | 1MG |
| Dept. Radio School Net | HZ2 |
| Dept. Radio School | 2TZ |
| Dept. Radio School | 4DM |
| Division Radio School | MM4 |
| Division Radio School | TZ2 |
| Division Radio School | Y53 |
| USAT Cochrane | XG1 |
| USAT Tug 91 | 6LN |
| USAT Krautoff | 1FG |
| USAT Frank | SM4 |
| Aircraft Warning Co | RQ1 |
| Aircraft Warning Co | VF7 |
| Aircraft Warning Co | ZU7 |
| Aircraft Warning Co | D88 |
| Aircraft Warning Co | 2IC |
| Aircraft Warning Co | 7CU |
| Aircraft Warning Co | 6QN |
| Aircraft Warning Co | 6LI |
| Aircraft Warning Co | 5GB |
| Aircraft Warning Co | 7MU |
| Aircraft Warning Co | 3XV |
| Aircraft Warning Co | 1EG |
| Aircraft Warning Co | UQ1 |
| Aircraft Warning Co | JF7 |
| Hq. Haw. Air Force Com'd | XL3 |
| Grnd Station | AF7 |
| Net | 3FL |
| Hd. Sqdrn. H. A. F. plane | R52 |
| 15th Bomb Wing Com'd | VH1 |
| Grnd Station | WG1 |
| 15th Wing Bomb WG. Net | 3RX |
| Hdq. & Hdq. Sq. 15th B. W. plane | AV3A |

| <i>Station or Net</i> | <i>Call</i> |
|--|-------------|
| Hdq. & Hdq. Sq. 15th B. W. plane | AV3B |
| 5th Bom. Grp. Com'd | UZ2 |
| Bom. Grp. Ground | 5WR |
| Bom. Grp. Net | KH9 |
| Hdq. Sqdr. 5th Grp Com'd | 3NX |
| [5] | |
| Sqd. Flight Comdr. A | ZP5 |
| Sqd. plane No. 1 | LV3A |
| To plane No. 5 incl | LV3F |
| LV3A, LV3B, LV3D, LV3F, Omit additional letter E on all Army plane calls as above. | |
| 4th Rec. Sqdr. Com'd | 9JH |
| Ground | LJ9 |
| Net | E1H |
| Flight Comdr. A | M46 |
| Flight Comdr. B | 50R |
| Flight Comdr. C | OJ9 |
| Plane No. 1 | YV3A |
| To plane 8 incl | YV3I |
| 23 Bomb. Sqdr. Comd. | 3BV |
| Ground | ZX3 |
| Net | UJ9 |
| Flight Comdr. A | CP5 |
| Flight Comdr. B | H13 |
| Flight Comdr. C | 5RP |
| Plane No. 1 | VZ2A |
| To plane No. 8 incl | VZ2I |
| 31 Bom. Sqdrn. Com'd | V39 |
| Bom. Sqdrn. Ground | MX3 |
| Bom. Sqdrn. Net | IV3 |
| Flight Comdr. A | 9QK |
| Flight Comdr. B | QH1 |
| Flight Comdr. C | 3JV |
| Plane No. 1 | 3NXA |
| To plane No. 8 incl | 3NXI |
| 72 Bom. Sqdr. Com'd | 1KH |
| Sqdr. Ground | TH9 |
| 31 Bom. Sqdr. Net | 3EX |
| Bom. Flight Comdr. A | 1TG |
| Flight Comdr. B | 3TV |
| Flight Comdr. C | 5LR |
| Plane No. 1 | KX3 |
| To plane No. 8 incl | KX3I |
| 11 Bomb. Group Com'd | 90J |
| Bomb. Group Ground | NJ9 |
| Bomb. Group Net | 1YH |
| Hd. Sqdr. 11 B. Grp. Com'd | DM4 |
| Plane No. 1 | OV3A |
| To plane No. 5 incl | OV3F |
| 50th Rec. Sqdr. Comd. | 3GX |
| Rec. Ground | RK9 |
| Rec. Net | 9DH |
| Rec. Flight Comdr. A | YZ2 |
| Rec. Flight Comdr. B | WJ9 |
| Rec. Flight Comdr. C | 5LR |
| Plane No. 1 | V31A |
| To plane No. 8 incl | V31I |
| 14th Bomb. Sqdr. Com'd | 1VH |
| Ground | WR5 |
| Net | M1H |
| Flight Comdr. A | ZM4 |
| Flight Comdr. B | GN3 |
| Flight Comdr. C | 9IJ |
| Plane No. 1 | 3KXA |
| To Plane No. 8 incl | 3KXI |
| 26th Bomb. Sqdr. Com'd | QK9 |
| Bomb. Ground | AH1 |
| Bomb. Net | TV3 |
| Bomb. Flight Comdr. A | PK9 |
| Bomb. Flight Comdr. B | 3FX |
| Bomb. Flight Comdr. C | J95 |
| Bomb. Plane No. 1 | RV3A |
| To plane No. 8 incl | RV3I |
| 42 Bomb. Sqdr. Com'd | H17 |
| Ground | CX3 |
| Net | HV3 |
| Flight Comdr. A | 6AN |
| Flight Comdr. B | 1FH |
| Flight Comdr. C | H96 |
| 42 Bomb. Sqdr. plane No. 1 | 3CXA |
| To plane No. 8 incl | 3CXI |
| Hdq. 14th Pursuit Wg. Comd. | 3ZX |
| 14th Pursuit Wg. Ground | 21Z |
| Pursuit Wg. Net | 9AJ |
| Hdq. Sqdrn. 14 P. Wg. plane No. 1 | 9CH |
| Plane No. 2 | 9TJ |
| 15th Pur. Grp. Com'd | X37 |

| Station or Net | Call |
|-------------------------------|------|
| 15th Pur. Grp. Ground | 1QH |
| Pur. Grp. Net | 9ZJ |
| Hdq. Sq. 15th Pur. Grp. Com'd | H18 |
| Sq. Plane No. 1 | HH1A |
| To plane No. 5 incl | HH1F |
| 45th Pur. Sqdr. Com'd | H91 |
| Pur. Sqdr. Ground | JH1 |
| Pur. Sqdr. Net | 9NJ |
| Pur. Sqdr. Flight Comdr. A | R66 |
| Flight Comdr. B | 1XH |
| Flight Comdr. C | 9UJ |
| Plane No. 1 | 3MLA |
| To plane No. 13 | 3MLN |
| 46th Pur. Sqdr. Com'd | EX3 |
| 46th Pur. Sqdr. Ground | J94 |
| 46th Pur. Sqdr. Net | 9WJ |
| Flight Comdr. A | X38 |
| Flight Comdr. B | 5VR |
| Flight Comdr. C | 9RJ |
| Plane No. 1 | WL3A |
| To plane No. 13 incl | WL3N |
| [4] | |
| 47th Pur. Sqdr. Command | DI6 |
| 47th Pur. Sqdr. Ground | 3WL |
| Net | UT9 |
| Flight Comdr. A | UL3 |
| Flight Comdr. B | 3ZL |
| Flight Comdr. C | LL3 |
| Plane No. 1 | 3NLA |
| To plane No. 13 incl | 3NLN |
| 18th Pur. Group Com'd | 4JM |
| Ground | 3PX |
| Net | 3HV |
| Hdq. Sqdr. 18 P. Grp Comm'd | F77 |
| Plane No. 1 | BV3A |
| To plane No. 5 | BV3F |
| 6th Pur Sqdr. Com'm'd | LG1 |
| 6th Pur Sqdr. Ground | RH1 |
| 6th Pur Sqdr. Net | FH9 |
| Flight Comdr. A | 4BM |
| Flight Comdr. B | M42 |
| Flight Comdr. C | FZ2 |
| Plane No. 1 | OL3A |
| To plane No. 13 | OL3N |
| 19th Pur. Sqd. Com'd | K97 |
| 19th Pur. Sqd. Ground | SR5 |
| 19th Pur. Sqd. Net | 1GH |
| Flight Comdr. A | 5GP |
| Flight Comdr. B | 1AG |
| Flight Comdr. C | 5MP |
| Plane No. 1 | FI6A |
| To plane No. 13 | FI6N |
| 78th Pur. Sqdr. Comd | HK9 |
| 78th Pur. Sqdr. Ground | GJ9 |
| Pur. Sqdr. Net | YH9 |
| Flight Comdr. A | KM4 |
| Flight Comdr. B | 6WM |
| Flight Comdr. C | SN6 |
| Plane No. 1 | I62A |
| To plane No. 13 | I62N |
| 44th Pur. Sqdr. Com'd | 9MJ |
| Pur. Sqdr. Ground | T99 |
| Pur. Sqdr. Net | 9GZ |
| Flight Comdr. A | ZZ9 |
| Flight Comdr. B | S82 |
| Flight Comdr. C | EF7 |
| Plane No. 1 | 6JLA |
| To plane No. 13 | 6JLN |
| 86 Obsv. Sqdr. Com'd | 5YR |
| Obsv. Ground | PR5 |
| Obsv. Net | J99 |
| Flight Comdr. A | T94 |
| Plane No. 1 | KI6A |
| To plane No. 13 | KI6N |
| 58 Bomb. Sqdr. (L) Com'd | BL3 |
| Bomb. Sqdr. Ground | 7HF |
| Bomb. Sqdr. Net | 9JT |
| 58 Bomb. Sqdr. Flight Comd A | JT9 |
| Flight Comd B | F73 |
| Flight Comd C | 9MZ |
| Plane No. 1 | SWSA |
| To plane No. 13 | SWSN |

| Station or Net | Call |
|---------------------------------------|------|
| 19 Trans. Sqdr. Command | X35 |
| Sqdr. Ground | 9AJ |
| Sqdr. Net | 5SR |
| Sqdr. Flight Comdr | 9RZ |
| Plane No. 1 | 80SA |
| To plane No. 13 | 80SN |
| Target Sqdr. Com'd | PJ9 |
| Target Sqdr. Ground | AT9 |
| Target Sqdr. Net | QF7 |
| Flight Comdr. A | VT9 |
| Plane No. 1 | XR5A |
| To plane No. 6 | XR5G |
| 17th A. B. Group Command | CH9 |
| Ground | PH1 |
| Net | QX3 |
| 18 A. B. Sqdr. Flt. Comdr | 9DT |
| 18 A. B. Sqdr. plane No. 1 | JV3A |
| To plane No. 4 | JV3D |
| 22 Mat. Sqdrn. Flight Comdr | MZ9 |
| Plane No. 1 | 3ALA |
| Plane No. 2 | 3ALB |
| Plane No. 3 | 3ALC |
| 23 Mat. Sqdrn. Flight Comdr | PF7 |
| Plane No. 1 | X88A |
| Plane No. 2 | X88B |
| Plane No. 3 | X88C |
| 18 Air Base Group Com'd | FV3 |
| Group Ground | 9BH |
| Group Net | LL3 |
| 17 A. B. Sqdr. Flight Comdr | 88S |
| Plane No. 1 | 8ASA |
| Plane No. 2 | 8ASB |
| Plane No. 3 | 8ASC |
| Plane No. 4 | 8ASD |
| 24 Mat. Sqd. Flight Comdr | FT9 |
| Plane No. 1 | 6B1A |
| Plane No. 2 | 6B1B |
| Plane No. 3 | 6B1C |
| 25 Mat. Sqd. Flight Comdr | 3EL |
| Plane No. 1 | CI6A |
| Plane No. 2 | CI6B |
| Plane No. 3 | CI6C |
| [5] | |
| Haw. Air Depot | BT9 |
| Plane No. 1 | Y16A |
| Plane No. 2 | Y16B |
| Plane No. 3 | Y16C |
| Crash Boat Gen. Westover | UG1 |
| Bellows Field Ground | 7GF |
| 14th Naval District Comdt. 14th Naval | |
| Dist Com. 14 | W2X |
| Com. Haw.-Naval Def. Force | B2A |
| Naval Def. Force coll | E1N |
| Wailupe Radio Station | E3L |
| All Stations this Circuit | E2A |
| U. S. S. Keosangua | H1L |
| U. S. S. Sunnadin | J4M |
| U. S. S. Ward | N3L |
| U. S. S. Schley | N8F |
| U. S. S. Chew | R6K |
| U. S. S. Allen | R9Q |
| Comdesdiv 80 | UIP |
| Desdiv 80 | U9J |
| Com. Mine Craft | N3D |
| Mine Craft | R1Q |
| Oglala (F) | S8B |
| Com. Mine Div. 1 | V6L |
| Mine Div. 1 (coll) | W5C |
| Pruitt (F) | X7J |
| Preble | Z9Q |
| Sicard | B6M |
| Tracy | E7T |
| Com. Mine Div. 2 | H7O |
| Mine Div 2 (coll) | J9P |
| Tanager (F) | N7B |
| Quail | R9L |
| Lark | S5V |
| Whipoorwill | U4M |
| All Mine Sweepers | V5Z |
| Mine Sweeper No. 1 (Mag) | W1Y |
| Mine Sweeper No. 2 (Anch) | W7P |
| Mine Sweeper No. 3 (Anch) | X2Q |

1314 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

| Station or Net | Call |
|--------------------------------|------|
| Comdr. Sub. Force | V2J |
| Sub. Force (coll) | W7D |
| Litchfield (F) | X2G |
| Com. Subron No. 4 | Z2F |
| Subron 4 (coll) | B5C |
| Sub. Base Radio Station | E8J |
| Seagull | H4K |
| Widecon | J7O |
| Com. Sub. Div. 7 | N4P |
| Sub. Div. 7 (coll) | R6O |
| S-18 | S3T |
| S-23 (F) | U1D |
| S-34 | V4N |
| S-35 | W7W |
| Com. Sub. Div. 12 | X3L |
| Sub. Div. 12 (coll) | Z5N |
| Argonaut | B9K |
| Dolphin | F59 |
| Narwhal | H3J |
| Nautilus (F) | J1B |
| Com. Sub. Div. 13 | N1J |
| Sub. Div. 13 (coll) | R3W |
| Shark (F) | S1C |
| Cachalot | U3K |
| Cuttlefish | V8F |
| Pluñeer | W9M |
| Pollack | X5T |
| Pompano | Z6R |
| Comdr. offshore Patrol | X8Q |
| Offshore Patrol (coll) | Z7W |
| Comdr. Inshore Patrol | B3Q |
| Inshore Patrol (coll) | W8O |
| Station No.: | |
| 1 | H5F |
| 2 | J5Y |
| 3 | N8A |
| 4 | R78 |
| 5 | S4N |
| 6 | U3G |
| 7 | V1C |
| 8 | W6R |
| 9 | X4D |
| 10 | Z3X |
| 11 | B1C |
| 12 | E2P |
| 13 | H2X |
| 14 | J2Y |
| 15 | N2L |
| 16 | R4V |
| 17 | S6Q |
| 18 | U6A |
| 19 | V5G |
| 20 | W3P |
| 21 | X7V |
| 22 | Z8J |
| 23 | B4G |
| 24 | E6R |
| 25 | H4D |
| Com. Naval Air Station | J6M |
| Naval Air Radio Station | N5Y |
| Crash Boat No. 1 | R8Z |
| [6] | |
| All Naval Air Station Planes | S4X |
| Air Station: | |
| Plane No. 1 | U2N |
| Plane No. 2 | V3Q |
| Plane No. 3 | W4F |
| Plane No. 7 | X1P |
| Plane No. 8 | Z5Y |
| Plane No. 9 | B1L |
| Plane No. 10 | E1G |
| Com. Pat Wing 2 | H3A |
| Com. Pat Wing (Admin) | J7Z |
| Senior Patron Comdr. Pat Wg. 2 | R7M |
| All Squadron Comdrs. Pat Wg. 2 | U4X |
| Pat Wing 2 (coll) | J6K |
| Wright | N9C |
| Wm. B. Preston | R2U |
| Childs | S9G |
| Swan | U1L |
| Plane XPBS-1 | V1P |

| Station or Net | Call |
|------------------------|------|
| Com. Patron 21 | W1B |
| Patron 21 (coll) | X2O |
| Com. Div. 1 Patron 21 | Z1A |
| Com. Div. 2 Patron 21 | B9D |
| Base Station Patron 21 | E1O |
| Any Plane Patron 21 | H1B |
| 21-P-1 | J4P |
| 21-P-2 | N3M |
| 21-P-3 | R1Z |
| 21-P-4 | S7R |
| 21-P-5 | U5F |
| 21-P-6 | V9C |
| 21-P-7 | W9L |
| 21-P-8 | Z8F |
| 21-P-9 | E4L |
| 21-P-10 | J3U |
| 21-P-11 | R3D |
| 21-P-12 | U7R |
| 21-P-13 | W2G |
| 21-P-14 | Z4H |
| 21-P-15 | B8Z |
| Com. Patron 22 | J5Q |
| Patron 22 (coll) | R5L |
| Com. Div. 1 Patron 22 | U7B |
| Com. Div. 2 Patron 22 | W2M |
| Base Station Patron 22 | Z9S |
| Any Plane Patron 22 | E7Y |
| 22-P-1 | J1X |
| 22-P-2 | R2G |
| 22-P-3 | U3Y |
| 22-P-4 | W1L |
| 22-P-5 | Z1C |
| 22-P-6 | E9Q |
| 22-P-7 | J9T |
| 22-P-8 | R9B |
| 22-P-9 | U8V |
| 22-P-10 | W7N |
| 22-P-11 | Z8O |
| 22-P-12 | E6X |
| 22-P-13 | J2G |
| 22-P-14 | R5O |
| 22-P-15 | S5K |
| Com. Patron 23 | W3A |
| Patron 23 (coll) | Z7C |
| Com. Div. 1 Patron 23 | E5K |
| Com. Div. 2 Patron 23 | J3L |
| Base Station Patron 23 | R4C |
| Any Plane Patron 23 | U5W |
| 23-P-1 | W6J |
| 23-P-2 | Z6G |
| 23-P-3 | E8O |
| 23-P-4 | J7D |
| 23-P-5 | R6T |
| 23-P-6 | U9O |
| 23-P-7 | W4Y |
| 23-P-8 | Z2M |
| 23-P-9 | E4B |
| 23-P-10 | J8S |
| 23-P-11 | R3N |
| 23-P-12 | U5Z |
| 23-P-13 | W8B |
| 23-P-14 | Z4L |
| 23-P-15 | B3R |
| Com. Patron 24 | E9C |
| Patron 24 | H8B |
| Com. Div. 1 Patron 24 | N7X |
| Com. Div. 2 Patron 24 | S3P |
| Base Station Patron 24 | V9M |
| Any Plane Patron 24 | X9B |
| 24-P-1 | Z5P |
| 24-P-2 | B2Z |
| 24-P-3 | H8M |
| 24-P-4 | J8H |
| 24-P-5 | N9J |
| 24-P-6 | R8N |
| 24-P-7 | S8U |
| 24-P-8 | U8T |
| 24-P-9 | X6U |
| 24-P-10 | B7M |
| 24-P-11 | H3S |
| 24-P-12 | N1Y |
| 24-P-13 | S6O |
| 24-P-14 | V4Y |
| 24-P-15 | X8L |

| <i>Station or Net</i> | <i>Call</i> |
|-----------------------------|-------------|
| [7] | |
| Com. Patron 25..... | E4Z |
| Patron 25 (coll)..... | H2G |
| Com. Div. 1 Patron 25..... | N8T |
| Com. Div. 2 Patron 25..... | S7F |
| Base Station Patron 25..... | V7W |
| Any Plane Patron 25..... | X4K |
| 25-P-1..... | B4L |
| 25-P-2..... | H5T |
| 25-P-3..... | N2G |
| 25-P-4..... | S2W |
| 25-P-5..... | V2A |
| 25-P-6..... | X1Z |
| 25-P-7..... | B8Y |
| 25-P-8..... | H9Z |
| 25-P-9..... | N9V |
| 25-P-10..... | S9Y |
| 25-P-11..... | V8A |
| 25-P-12..... | X7K |
| 25-P-13..... | B5N |
| 25-P-14..... | H6C |
| 25-P-15..... | N4K |
| Com. Patron 26..... | U6D |
| Patron 26 (coll)..... | V4K |
| Com. Div. 1 Patron 26..... | X6B |
| Com. Div. 2 Patron 26..... | B6X |
| Base Station Patron 26..... | H6L |
| Any Plane Patron 26..... | N5T |
| 26-P-1..... | S6G |
| 26-P-2..... | V8X |
| 26-P-3..... | X3Y |
| 26-P-4..... | B6F |
| 26-P-5..... | H9N |
| 26-P-6..... | N2X |
| 26-P-7..... | S4D |
| 26-P-8..... | V3F |
| 26-P-9..... | X3A |
| 26-P-10..... | B2N |
| 26-P-11..... | H7Y |
| 26-P-12..... | N6R |
| 26-P-13..... | S2Z |
| 26-P-14..... | V6R |
| 26-P-15..... | X5F |

| <i>Station or Net</i> | <i>Call</i> |
|--|-------------|
| Com. 2nd Marine Air Grp..... | X5M |
| VMF2 (Marairgrp)..... | X9N |
| Com. VMF-2..... | X9NØ |
| Com. Plane No.: | |
| 1..... | X9N1 |
| 2..... | X9N2 |
| 3..... | X9N3 |
| 4..... | X9N4 |
| 5..... | X9N5 |
| 6..... | X9N6 |
| 7..... | X9N7 |
| 8..... | X9N8 |
| 9..... | X9N9 |
| 10..... | X9N10 |
| 11..... | X9N11 |
| 12..... | X9N12 |
| VMB-2 (2nd Marairgrp)..... | Z3D |
| Com. VMB-2..... | Z3DØ |
| Com. Plane No.: | |
| 1..... | Z3D1 |
| 2..... | Z3D2 |
| 3..... | Z3D3 |
| 4..... | Z3D4 |
| 5..... | Z3D5 |
| 6..... | Z3D6 |
| 7..... | Z3D7 |
| 8..... | Z3D8 |
| 9..... | Z3D9 |
| 10..... | Z3D10 |
| 11..... | Z3D11 |
| 12..... | Z3D12 |
| Fleet Air Detachment Shore Based at NAS Pearl Harbor Will use only Navy Calls. | |
| Coast Guard: | |
| CGC Kukui..... | E5Z |
| Coast Guard Hdqts..... | B79 |
| C Guard Radio Station..... | J8A |
| Reliance..... | N6C |
| Tancy..... | E3M |
| Tiger..... | H5F |
| U. S. C. G. 400..... | R7Y |
| U. S. C. G. 403..... | S1L |
| U. S. C. G. 838..... | U2B |
| U. S. C. G. AB27..... | V7T |
| All C. G. Vessels..... | X5Q |
| PAA Radio Station Oahu..... | H1X |
| PAA Radio Station Canton Is..... | H8U |
| PAA Radio Station Midway..... | J4A |
| PAA Radio Station Wake..... | J7K |

| [8] | |
|-----------------------------------|------|
| USS McFarland..... | R2U |
| USS Thornton..... | S9G |
| USS Curtiss..... | B3K |
| USS Hulbert..... | B8P |
| USS Avocot..... | E5N |
| USS Tangier..... | H8R |
| Comdr Div 1, VP 27..... | W3G |
| Comdr Div 2, VP 27..... | V2G |
| Base Station, VP 27..... | U4B |
| Any plane, VP 27..... | J5O |
| Patrol Sqdrn 27 (collective)..... | J5P |
| Comdr Patron 27..... | J5PØ |
| 27-P-1..... | J5P1 |
| 27-P-2..... | J5P2 |

ADDITIONS

| | |
|--------------|-------|
| 27-P-3..... | J5P3 |
| 27-P-4..... | J5P4 |
| 27-P-5..... | J5P5 |
| 27-P-6..... | J5P6 |
| 27-P-7..... | J5P7 |
| 27-P-8..... | J5P8 |
| 27-P-9..... | J5P9 |
| 27-P-10..... | J5P1Ø |
| 27-P-11..... | J5P11 |
| 27-P-12..... | J5P12 |
| 27-P-13..... | J5P13 |
| 27-P-14..... | J5P14 |
| 27-P-15..... | J5P15 |

Signal Operations Instructions (Joint) No. 43-8.

1316 CONGRESSIONAL INVESTIGATION PEARL HARBOR ATTACK

2. The Following calls are allocated to units indicated. They may be assigned by the unit Command, but when assigned, report will be made at once to the Department Signal Officer.

| | | | |
|----------------|-----|--------------------|-----|
| Department | MP5 | Hawaiian Air Force | EY3 |
| ----- | 9HK | ----- | HF7 |
| ----- | K93 | ----- | L35 |
| ----- | 2DZ | ----- | IZ2 |
| ----- | Z24 | ----- | MI6 |
| Navy | | ----- | OG1 |
| ----- | Z3K | ----- | RF7 |
| ----- | Z6C | ----- | UV3 |
| | | ----- | VV3 |
| | | ----- | W88 |
| Division | | ----- | ZI6 |
| ----- | ZK5 | ----- | 1HH |
| ----- | 2RC | ----- | 1IG |
| ----- | 8KB | ----- | 1SH |
| ----- | 7ZU | ----- | 1UG |
| ----- | YQ1 | ----- | 1ZG |
| ----- | P57 | ----- | 3IL |
| ----- | 9KK | ----- | 3MX |
| ----- | 2BZ | ----- | 4CM |
| ----- | TM4 | ----- | 5AR |
| ----- | 9YK | ----- | 5NP |
| H. S. C. A. B. | | ----- | 5QR |
| ----- | AQ1 | ----- | 6DI |
| ----- | EK9 | ----- | 6CL |
| ----- | XN6 | ----- | 6ON |
| ----- | JZ2 | ----- | 7KF |
| ----- | AZ2 | ----- | 7QF |
| ----- | 7SW | ----- | 7YF |
| ----- | CK5 | ----- | 8LS |
| | | ----- | 8QS |

3. Call signs for Radio Sets, types SCR-194 and SCR-195, will be designated by the Commanding Officer of the units using such sets.

By order of Rear Admiral BLOCH and Lieutenant General SHORT.

J. W. LEWIS,
Captain, U. S. N.
Chief of Staff.

OFFICIAL:

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

R. C. Throckmorton
 R. C. THROCKMORTON,
Lt. Col., General Staff Corps,
Asst. Chief of Staff, G-3.

EXHIBIT No. 54

Op-3001-AJ
 (SC) N20-12
 Serial 046290

NAVY DEPARTMENT,
Office of the Chief of Naval Operations.
February 17, 1941.

Confidential

From: The Chief of Naval Operations.

To: The Commandant, First Naval District.
 The Commandant, Third Naval District.
 The Commandant, Fourth Naval District.
 The Commandant, Fifth Naval District.
 The Commandant, Sixth Naval District.
 The Commandant, Seventh Naval District.
 The Commandant, Eighth Naval District.
 The Commandant, Tenth Naval District.
 The Commandant, Eleventh Naval District.
 The Commandant, Twelfth Naval District.
 The Commandant, Thirteenth Naval District.
 The Commandant, Fourteenth Naval District.
 The Commandant, Fifteenth Naval District.
 The Commandant, Sixteenth Naval District.
 The Commandant, Naval Station, Guantanamo.

Subject: Anti-torpedo baffles for protection against torpedo plane attacks.