

DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON 25, D.C.

Op-311E/cy  
(SC) A16-3

Serial: 015P31

31 January 1949

From: Chief of Naval Operations.  
To: Commander-in-Chief, U.S. Atlantic Fleet.  
Commander-in-Chief, U.S. Pacific Fleet.

Subject: Antisubmarine Warfare, Increased Emphasis on Submarines  
Reference: (a) ComSubPac conf. dispatch 042310Z dated Sept. 1948.  
(b) ComSubLant secret ltr. FF13-8/A16-3 serial 0046  
dated 23 September 1948.  
(c) ComSubPac secret ltr. FF13-10/A16-3 serial 0011  
dated 7 May 1948.

1. For reasons of higher classification, it has become necessary to place increased emphasis on the development of tactics and techniques directed towards defeating submarines having the characteristics of the "Guppy" conversion or better. Both Commander Submarine Force, Atlantic and Commander Submarine Force, Pacific have, on their own initiatives, instituted projects on the use of submarines for this purpose, as indicated by reference (a) and the reports of Submarine Squadron SIX. Similarly both commands have indicated, in references (b) and (c), the necessity for increased emphasis. This necessity was confirmed by the Fleet Commanders' endorsements to these references.

2. In order to attain a maximum rate of progress it is proposed to assign this problem to units which can devote full time to its solution. The Chief of Naval Operations will provide liaison and assistance to both fleets.

3. To implement this policy, the Chief of Naval Operations directs that the Fleet Commanders assign one division in each fleet to this sole task. Their mission shall be "to solve the problem of using submarines to detect and destroy enemy submarines." All other operations of any nature, even type training, ASW services, or fleet tactics shall be subordinated to this mission. Special provision must be made for these submarines to compete for efficiency awards without completing the training exercises as now required.

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4. It is recognized that the assignment, to this mission of a division of submarines in each fleet, will increase the shortage of submarines for surface ship ASW training. The Chief of Naval Operations considers that the problems involved in the employment of submarines against other submarines require an early solution and warrant a temporary acceptance of this condition. The provision of additional submarines for ASW services will be the subject of further study.

A. D. STRUBLE  
By direction.

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ComSubLant  
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AUTHENTICATED BY:  
L. R. DASPIT

FF13/A16-3/ASW

THE ATLANTIC COMMAND  
AND UNITED STATES ATLANTIC FLEET  
( 0155 ) HEADQUARTERS OF THE COMMANDER IN CHIEF

26 February 1949

From: Commander in Chief U.S. Atlantic Fleet  
To: Chief of Naval Operations

Subject: Anti-Submarine Warfare, Increased Emphasis on Submarines.

Reference: (a) CNO serial 015P31 of 31 Jan. 1949.

1. To discharge the directive contained in reference (a), the Commander in Chief intends to assign four submarines with different type sonar equipment to the sole task of "solving the problem of using submarines to detect and destroy enemy submarines". These submarines will be:

USS TUSK SS-426 (SubDiv-S1)  
USS COCHINO SS-345 (SubDiv-41)  
USS CORSAIR SS-435 (SubDiv-82)  
USS TORO SS-422 (SubDiv-21)

2. With the exception of the COCHINO, it is not intended to disturb the present division and squadron administrative assignment of the above vessels. This group would operate directly under ComSubLant as "Submarine Development Group TWO" under command of a Group Commander and Project Officer, and would be based at New London, Connecticut.

3. If the Chief of Naval Operations approves this plan in principle it is requested that:

a. "Submarine Development Group TWO" be commissioned as an activity under the command of Commander Submarine Force U.S. Atlantic Fleet with the following officer and enlisted allowance:

1. Capt (1200) USN Group Commander and Project Officer.
2. CDR (1200) USN, Assistant to Group Commander.
3. YNC.
4. YN1 of YN2.

FF13/A16-3/ASW

THE ATLANTIC COMMAND  
AND UNITED STATES ATLANTIC FLEET  
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26 February 1949

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b. The home port of the USS COCHINO (SS-345) be changed from Key West, Florida, to New London, Connecticut and that she be assigned to Submarine Division 81.

4. Subject to the approval of the above by the Chief of Naval Operations, ConSubLant by copy of this letter, is directed to initiate detailed plans to implement the provisions of (1) and (2) above.

HUGH H. GOODWIN,  
Chief of Staff.

Copy to:  
ComSubLant  
CinCPacFlt

Op-311/A16-1  
(SC)/(en)  
Serial: 066P31

DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON 25, D.C.

11 March 1949.

From: Chief of Naval Operations.  
To: Commander Submarine Force, U.S. Atlantic Fleet.  
Commander Submarine Force, U.S. Pacific Fleet.

Subject: Submarine versus Submarine Operations,  
Suggest schedule for.

Reference: (a) CNO conf. ltr. serial 015P31 dated - 1/31/49.

1. Reference (a) directed the Fleet Commanders to assign one division in each fleet to the problem of using submarines to detect and destroy enemy submarines. The Operations Evaluation Group is presently preparing proposed procedures and outlines of minimum data which must be obtained for their use. These procedures can be varied by the type commanders if experience indicates it to be necessary. It is anticipated that these procedures and outlines will be forwarded to addresses about 1 April 1949.

2. To assist the submarine divisions that are assigned this problem to solve, a suggested procedure is outlined below:

PHASE I - Indoctrination and Training.

1. Learn how to test and determine when sonar equipment is operating at maximum efficiency. (The technical assistance of a Bureau of Ships' contract engineer will be made available to each division.)
  - (a) Provide each submarine with a qualified technician who has at least one years obligated service, and can remain in this billet for that period.
  - (b) Assist BuShips' engineer in training this enlisted technician.
  - (c) Assign officer personnel to supervise this training and future testing of equipment.
2. Train a sufficient number of operators so that a realistic rotation of sonar watch standers comparable to average war patrol conditions may be carried out.
  - (a) All operators should reach a state of training expected of a well trained sonar operator.

Op-311/A16-1  
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3. Learn to live silently in order to reduce self-noise.
    - (a) Determine minimum crew necessary to operate a submarine safely on SSK missions.
    - (b) Determine what machinery can be operated while still obtaining satisfactory results from the sonar equipments.
    - (c) Determine the number of hours a day a submarine can remain quiet enough to be an efficient listening platform.
  4. Develop methods for maintaining depth and position.
    - (a) Study effectiveness and practicability of anchoring submerged. Determine maximum anchoring depth and best type of ground tackle.
    - (b) Study the practicability of hovering in isothermal water for extended periods of time, and the efficiency and range of listening under these conditions.
  5. Develop recognition procedure and means of submerged communication, using present equipment.
    - (a) Investigate all possible means (radar, sonar, and radio) of submerged communication. Determine the limiting range for each system. Determine amount of security each provides.
    - (b) Proceed as in 5(a) above as regards identification and recognition procedure.

PHASE II - Determine capabilities of installed sonar equipment and the best operating depths for various bathythermograph conditions.

1. Determine under various conditions of sea state, depth of water, character of bottom, and temperature gradients, the assured sonar listening range. A target of measured sound intensity should be used for this operation.

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2. Data on the range at which fire control sonar equipment can "take over" from long ranges listening equipment under these various conditions should ultimately be obtained.
3. Determine maximum speeds at which various types of sonar equipment are effective.
4. Investigate the effect of location and method of installation (with and without dome; topside or bottomside) of similar sonar equipment.

PHASE III - Solve the fire control problem.

1. Bearings only solution using all existing methods of plot.
2. Passive ranging, using one or more submarines.
3. Combination of bearings and passive ranging.
4. Determine, from actual operations, whether single ping ranges may be used without alerting the target.

NOTE: The probable use of homing, wire guided, pattern running, or a combination of homing and pattern running torpedoes should ultimately be taken into account in determining an effective solution to the fire control problem.

PHASE IV - Develop individual ship doctrine and tactics for detecting and attacking submerged submarines.

PHASE V - Develop group doctrine and tactics and evaluate capabilities of submarines versus submarines in all possible tactical situations.

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1. Close in patrol off enemy submarine bases in order to deny enemy submarines access to the sea.
2. Barrier patrol lines in the open sea to destroy enemy submarines in transit to and from their operating area.
3. Barrier patrol lines parallel to and on both sides of convoy routes to deny enemy submarines access to convoys within these lanes.
4. Barrier patrol lines for coast and harbor defense.
5. Members of combined air-submarine killer teams.
6. Operating in close proximity to convoy as in convoy defense.

PHASE VI - Determine operational requirements for new and improved equipment to adequately perform the submarine versus submarine mission.

C. B. HOBSEN,  
By direction.

Cc:  
CinCLantFlt  
CinCPacFlt  
CinCNelm  
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ONR  
USNUSL  
NEL  
NRL  
WHOI  
BuShips  
BuOrd  
OEG  
OP34  
OP04

AUTHENTICATED BY:  
/s/ L. R. DASPIT,  
Captain, U.S. Navy.



FF13-8/A16

( C254 )

COMMANDER SUBMARINE FORCE  
UNITED STATES ATLANTIC FLEET  
U.S.S. FLYING FISH (SS 229), Flagship 31/by

19 Apr 1949

From: Commander Submarine Force, U.S. Atlantic Fleet.

To: Commander Submarine Development Group TWO.

Subject: Submarine Training in Antisubmarine Warfare.

Reference: (a) CNO conf. ltr. Op-311/A16-1/(SC)/(en) serial 066P31  
of 11 March 1949.

Enclosure: (A) Copy of reference (a).

1. Enclosure (A), a suggested procedure for the prosecution of subject training, is forwarded herewith for information and guidance. Submit a monthly progress report, plus any special reports you deem desirable, direct to ComSubLant covering the progress made by vessels of Submarine Development Group TWO in Antisubmarine Warfare Training. ComSubLant will make further dissemination of information contained therein considered necessary.

2. Commander Submarine Development Group TWO is hereby authorized to maintain close liaison with representatives of the Underwater Sound Laboratory, New London, Woods Hole Oceanographic Institution and similar activities on the technical material aspects of the subject training.

3. Continued Force-wide interest and support of subject training is necessary. By copy of this letter Commanding Officer, U.S. Naval Submarine Base, New London, Connecticut, Commander Submarine Development Group TWO and Submarine Squadron Commanders of this Force are encouraged to communicate directly with each other on matters concerned with the employment of submarines in ASW. Forward copies of such correspondence to Commander Submarine Force, U.S. Atlantic Fleet.

JAMES FIFE.

Copy to:

CO USNavSubbase NewLon

ComSubRon TWO

ComSubRon FOUR

ComSubRon SIX

ComSubRon EIGHT

ENCLOSURE (5)