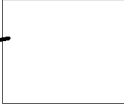


*R. L. Mayo*

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DEPARTMENT OF THE NAVY OPNAV 003430.2A  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS Op-922Y4  
WASHINGTON 25, D. C. Ser 007603P92

30 June 1958

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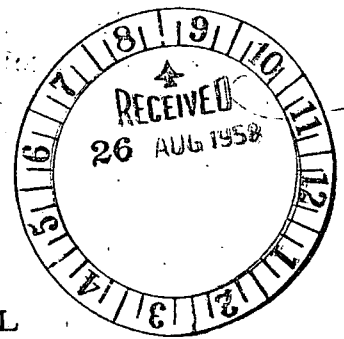
OPNAV INSTRUCTION 003430.2A

From: Chief of Naval Operations  
To : Distribution List

Subj : U.S. Navy ELINT Program

Ref : (a) NSCID 17 of 16 May 1955 NOTAL  
(b) DOD-S-3115.2 of 13 July 1955 NOTAL  
(c) CNO ser 009179P92 of 5 Feb 57, subj: Guidance for  
ELINT Activities NOTAL  
(d) OPNAVINST 003430.11 of 30 June 1958  
(e) OPNAVINST 03430.4 of 13 March 1956 NOTAL

Encl : (1) Current U.S. Navy ELINT Capability  
(2) Time schedule for objective achievement  
(3) OPNAV Organization for ELINT Program Coordination  
(4) List of key ELINT Commands



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1. Purpose. The purpose of this instruction is to promulgate the U.S. Navy ELINT Program.

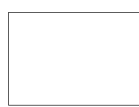
2. Cancellation. OPNAVINST 03430.2 is hereby cancelled and superceded. No report of destruction is required.

3. Background.

a. ELINT is defined as the collection (observation and recording) and the technical processing, for later intelligence purposes, of information on foreign, non-communication, electromagnetic radiations emanating from other than atomic detonation sources.

b. In recognition of the national significance of ELINT, reference (a), a directive of the National Security Council, provides that the U.S. Communication Intelligence Board shall be the national policy body for ELINT, and that the Department of Defense and the Central Intelligence Agency are responsible for their respective ELINT collection operations. The processing in the field by the collecting agencies for immediate essential operational or tactical purposes is authorized, but all data must

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be made available, subject only to minimum delays necessitated by prior exploitation in the field, to a Technical Processing Center organized and administered by the Department of Defense. The center will effect the fullest and most expeditious processing feasible, and the results thereof will be furnished to interested departments and agencies, in the form desired by them to the extent practicable.

c. In reference (b), the Secretary of Defense assigned to the Secretary of the Air Force the responsibility and delegated to him the necessary authority to direct and supervise the consolidated processing, analysis and dissemination of ELINT data, and to guide and coordinate ELINT activities of all agencies of the Department of Defense. An organization, designated the National Technical Processing Center (NTPC), was established in Washington under the management of the Assistant Chief of Staff for Intelligence USAF, to accomplish consolidated processing, analysis and dissemination of ELINT information and to provide technical guidance for collection activities. The ELINT Coordinating Group (AFCIN-Z) has been established within the Office of the Assistant Chief of Staff, Intelligence, USAF, to guide and coordinate ELINT activities of all agencies of the Department of Defense. Army, Navy, Air Force, and Central Intelligence Agency personnel participate in both NTPC and AFCIN-Z. Collation of ELINT with other forms of intelligence remains a Departmental function.

d. It is directed in reference (b) that operational commanders retain unbridged authority over integral ELINT resources in support of their own operations, and freedom to exchange ELINT materials for their mutual support.

e. The Secretary of the Air Force has provided, and the Joint Chiefs of Staff approved, the US ELINT Objectives and General Intelligence Requirements. These have been promulgated within the Navy by reference (c).

f. Reference (d) contains instructions for ELINT collection, processing and reporting by the Naval ELINT Operating Forces.

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#### 4. Concept and Scope.

a. The concept of the Navy ELINT Program encompasses:

(1) The requirements of electronic warfare for a timely base of confirmed intelligence on the electronic systems of potentially hostile nations. Reference (e) promulgates the Navy Electronic Warfare (ECM/ECCM) Policy. A vigorous ELINT program is required to support research and development; training; aircraft, ship and submarine configurations; doctrine and tactical concepts of Navy Electronic Warfare; and development of countermeasures devices.

(2) The tremendous potential of ELINT to contribute information relating to priority intelligence objectives.

(3) Participation of the Navy in a National ELINT Program with the Air Force, Army and Central Intelligence Agency. With respect to the National requirements, Naval ELINT units will complement the activities of the other participants and bring to bear unique capabilities of maritime operations. Insofar as the National ELINT Program does not fulfill Naval intelligence requirements, Naval ELINT units will complete the fulfillment as practicable, both during a protracted cold war period and during active hostilities.

(4) The development of ELINT collection and processing systems with supplemental communications and other long-range electronic sensors which may be employed concurrently to the degree required.

(5) Utilization to the appropriate degree of land, surface, submarine, air and satellite vehicles.

(6) Coordination with other appropriate government agencies to avoid undesirable duplication in all aspects of the ELINT program.

b. The scope of the Navy ELINT Program includes the specialized ELINT collection units and support therefor operated by the Navy in areas proximate to communist territory, foreign

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ELINT activities supported by the Navy, and the ELINT aspects of maritime reconnaissance conducted by Naval forces. It does not include COMINT development other than that required for ELINT purposes.

5. Definition of Missions.

a. The overall mission of the Navy in ELINT is to assist in fulfilling national and naval intelligence requirements. The mission must be accomplished by monitoring assigned classes of foreign electromagnetic radiations, to determine the characteristics of systems, usage, and foreign intent.

b. The mission of Naval ELINT Collection Units is to observe, identify, insofar as practicable, and accurately record foreign non-communication electromagnetic radiations according to priorities assigned, concurrently with other observations, including sensitive intelligence, which can affect the evaluation of the ELINT data. Information recognizable to be of immediate tactical or strategic value shall be evaluated and forwarded immediately to appropriate commanders and CNO.

c. The mission of Naval ELINT Processing Activities is to identify signals of foreign origin, determine their characteristics and source, and in consideration of all other intelligence available, determine the relationship between the signal source and other signal sources, and the function of the source vehicle. Information recognizable to be of immediate tactical or strategic value shall be evaluated and forwarded immediately. Processing activities shall provide technical guidance to collection activities supported, evaluate their data and effectiveness and provide personnel augmentation for special collection efforts. These units shall lend technical support to the commander in the assignment of search priorities and schedules, in collation of ELINT with other intelligence, and provide intelligence support to allies according to agreed policy.

6. Current U.S. Navy Capabilities. The current U.S. Navy ELINT capabilities are listed in enclosure (1).

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30 June 19587. Objectives of the ELINT Program.

## a. Naval ELINT Objectives.

(1) Naval ELINT Objectives in support of the National Intelligence Objectives, are as follows:

## (a) First Priority:

1 To determine unfriendly states' intentions and plans to initiate hostilities by evaluation of the characteristics, operational behavior and deployment of Soviet or Satellite, or Chinese Communist armed forces electronic systems, weapons systems and supporting systems detectable by ELINT means. First priority shall be given to systems which are located in areas containing targets of Naval interest, including mobile Naval forces.

2 To determine present and probable future Soviet Bloc capability for attack against the U.S. or her allies or overseas U.S. installations as indicated by the characteristics, operational pattern and deployment of electronics systems, weapons systems and supporting systems detectable by ELINT means. First priority shall be given to systems which are located in areas containing Soviet, Satellite or Chinese Communist Naval Forces or weapons developments.

3 To determine unfriendly foreign states present and probable future capabilities for defense against attack by naval weapons by evaluation of the characteristics, operational pattern and deployment of military electronics systems, weapons systems and supporting systems detectable by ELINT means, which are located in areas containing targets of naval interest.

4 To supplement otherwise the ELINT activities of other services and agencies and Allied Forces related to first priority intelligence objectives wherein the capabilities of U.S. Naval reconnaissance would be in the National interest.

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(b) Second Priority:

1 To assess electronic aspects of Soviet, Satellite, and Chinese Communist scientific and technical strengths and weaknesses which substantially effect their military and economic capabilities, including electronic equipment sophistication, simplicity, industrial utilization, and operational readiness.

2 To produce ELINT relating to general electronic capabilities of the Soviets and Satellites, including capability to exploit unused areas of the electromagnetic spectrum; to detect programs in the newest branches of electronics and applications of electronics to other branches of science and technology; and native development work.

(c) Third Priority:

1 To produce ELINT as necessary to assess the military or technological strengths and weaknesses of non-Soviet Bloc countries in the promotion of US foreign policy, according to specific requirements.

b. The requirements of Naval ELINT Objectives are broken down into short-range and long-range objectives as follows:

(1) Short Range Objectives.

(a) Personnel.

1 Establish a controlled program of airborne ELINT operator training, utilizing facilities of the Naval Security Group, Washington, to supply ECMRONS with a sufficient input of properly trained personnel.

2 Provide experienced officers in key fleet billets to aid in planning and providing guidance for ELINT operations, and the related ECM phases as appropriate.

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3 Formulate and implement a program to introduce appropriate quantities of young officers with adequate training in electronics into the ELINT program consistent with the long range intelligence objectives, and the needs of the Commanders for technical support. Establish management procedures to cycle all personnel through various aspects of operation, intelligence and development to sustain interest and develop qualifications.

4 Provide and train sufficient personnel to operate the shore-based ELINT collection program and augment special mobile collection operations.

5 Provide the personnel required by ELINT processing activities to carry out their missions.

6 Institute intelligence training of evaluators prior to reporting for operational duty.

7 Establish an intermediate program for training ELINT personnel for ISE within the operating forces of the Navy in order to improve the quality of ELINT collection.

(b) Collection.

1 Develop a vigorous air, sea, and land collection program.

2 Extend the depth, broaden the base and improve the quality of electronic reconnaissance coverage in those areas of critical Navy interest not adequately covered by another service or foreign government with which the U.S. Navy exchanges data. Insofar as practicable, incorporate the necessary ELINT capability within the combat ECM capability.

3 Improve submarine equipment, correct submarine configuration deficiencies and develop configurations capable of fulfilling the majority of such technical search or surveillance requirements appropriate to this vehicle.

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4 Formulate system concepts for intercept and vehicle capability for future periods, consistent with the long range objectives. A program of research and limited production of specialized ELINT components that can be utilized in flexible configurations to cover important targets that may be presented unexpectedly shall be instituted.

5 Improve the quality of ELINT data collected by AEW squadrons, patrol squadrons, and ECM equipped ships, consistent with the primary mission of the unit concerned.

6 Determine U.S. Naval requirements for exchange of ELINT data with foreign governments and expand current programs as appropriate.

7 Provide adequate mobility and flexibility to exploit targets of opportunity.

8 Formulate on a continuing basis reconnaissance requirements by area according to Communist Bloc activity and the Naval ELINT Objectives.

(c) Analysis and evaluation.

1 Establish a program to supply continuously ECMRCNS, evaluation centers and fleet units having an ECM capability with a series of aids designed to train intercept operators in rapid signal recognition, evaluation, and intercept techniques.

2 Provide for improved technical and intelligence feedback to collectors.

3 Provide the facilities necessary for timely analysis.

(d) Dissemination.

1 ONI and the collating commands publish and promulgate electronic intelligence consistent with the specialized needs of Naval ELINT units and required to support Electronic Warfare (ECM/ECCM).

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(2) Long Range Objectives. The long range objectives aim to assure maximum effectiveness of ELINT in the preparation for and conduct of naval warfare, and to provide the greatest overall contribution by ELINT to national readiness. They are as follows:

(a) Determine the major emission characteristics of all Communist Bloc offensive weapons systems.

(b) Determine the locations and electronic environments of Communist Bloc land, surface, and underseas offensive weapons bases and platforms. First priority shall be assigned to those located in the area of targets of Naval interest, including mobile Naval forces.

(c) Determine the emission characteristics of the major emissive electronic components of Communist Bloc defensive systems to an extent which will encompass the majority of the targets of Naval interest.

(d) Determine the location of the emissive electronic components of Communist Bloc fixed and mobile defensive systems to an extent encompassing the majority of targets of naval interest.

(e) Establish repetitive surveillance of the base and weapons electronic environments at bases or platforms in the area of targets of Naval interest including mobile Naval forces at a rate sufficient to provide indication of operational behavior and warning of impending attack.

(f) Carry out technical search and timely analysis to a sufficient degree to prevent technological surprise.

(g) Provide appropriate ELINT collection, evaluation and control capability within the operating forces of the Navy.

(h) Establish a personnel program in the Navy to meet the interdependent needs of ELINT and ECM operational and developmental tasks.

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8. Time Schedule for Objective Achievement. (see enclosure (2))
9. Program Responsibilities.
  - a. Program Sponsors:
    - (1) Assistant Chief of Naval Operations, Intelligence (Op-92)
    - (2) Deputy Chief of Naval Operations (Fleet Operations and Readiness) (Op-03)
    - (3) Deputy Chief of Naval Operations (Air) (Op-05)
  - b. Program Coordinators:
    - (1) Head Operational Intelligence Branch (Op-922Y)
    - (2) Assistant Director for Communications Security Matters and Head Naval Security Group (Op-30G)
    - (3) Head Electronic Warfare Systems Branch (Op-347)
    - (4) Head Air Intelligence and Photographic Branch (Op-553)
  - c. Program Associates:
    - (1) The Bureau of Aeronautics, Avionics Division.
    - (2) The Bureau of Ships, Countermeasures Branch.
    - (3) Bureau of Ordnance.
    - (4) Office of Naval Research (Development Coordinator).
    - (5) Naval Research Laboratory, Countermeasures Branch.
  - d. CNO Organization. Within the Office of the Chief of Naval Operations, responsibilities for ELINT have been assigned as follows:

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## (1) To Director of Naval Intelligence:

(a) In collaboration with the Deputy Chief of Naval Operations, (Fleet Operations and Readiness), establishment and promulgation of Navy ELINT policy, doctrine, and objectives.

(b) Determination and promulgation of Navy ELINT requirements.

(c) Preparation and submittal of recommendations regarding tasks to the Deputy Chief of Naval Operations (Fleet Operations and Readiness).

(d) Dissemination of intelligence derived from ELINT.

(e) Coordination within OPNAV and external liaison for ELINT.

(f) In coordination with Op-03 and Op-05, exercise technical control for air ELINT activities.

## (2) To Deputy Chief of Naval Operations (Fleet Operations and Readiness):

(a) The fulfillment of Navy ELINT requirements through assignment of appropriate tasks to the operating forces.

(b) The application of ELINT products to Electronic Warfare.

(c) Management and technical control of all ground-operated ELINT activities.

(d) Provision of technical evaluation and support to appropriate operational commanders in all ELINT collection effort by ground, air, surface or submarine units.

(e) Providing for the training of personnel whose primary duties are ELINT.

(f) Formulation of technical characteristics for use in the development of special ELINT equipment, excluding airborne equipment.

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(g) Provision of the Navy portion of personnel and logistic support to the National Technical Processing Center; provision of technical personnel for Navy and joint ELINT analysis, as required.

(3) To Deputy Chief of Naval Operations (Air):

(a) Formulate technical characteristics for aircraft specially configured for ELINT missions and provide such aircraft to the operating forces.

(b) The formulation of technical characteristics for use in the development of special airborne ELINT equipment.

e. Enclosure (3) outlines the OPNAV organization established for coordination of the Navy ELINT Program.

10. Programs Supported.

a. Countermeasures: By providing data on unfriendly electronic emitters for the development of appropriate countermeasures systems and procedures. Based on this information the ECM programs in turn provide early passive detection, target identification, and tracking in direct support of all tactical operations.

b. Airborne and missile primary weapons systems: By providing data on the emission characteristics, location, and vulnerabilities of electronic components of unfriendly anti-air warfare and anti-missile warfare weapons and supporting units.

c. Shipborne primary weapons systems: By providing data on the emission characteristics, location and vulnerabilities of electronic components of unfriendly anti-surface and anti-submarine weapons and supporting units.

d. Land warfare activity: By providing additional data not included in the above on the emission characteristics, location and vulnerabilities of electronic components of land warfare equipments.

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e. Early warning systems: By providing data on the deployment and usage of unfriendly forces.

f. National Intelligence Programs: By providing information of value in fulfillment of the National Intelligence Objectives.

11. Supporting Program:

a. Intelligence programs.

- (1) Special forms of intelligence.
- (2) Scientific and Technical Intelligence.
- (3) US/Foreign exchange activity.
- (4) Services Attache System.

b. U.S. Military and civilian activities.

- (1) Naval Electronic Warfare (ECM/ECCM) research, development, and production.
- (2) Other service programs in ELINT research, development and production.
- (3) General advancement of the electronics art by contractors and universities.

12. Reports of progress required.

a. Program review.

(1) This program and the basic directives will be reviewed under the sponsorship of CNO.

b. Annual reports from the major commanders involved, encompassing program adequacy, progress, and needs will be provided on 1 October. Further instruction on the terms of reference desired will be promulgated separately.

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13. Financial Support

## a. Objective.

(1) To obtain an annual consolidated estimate of Navy expenditure for the ELINT program.

## b. Reporting.

(1) Total estimated Navy costs for the ELINT program for current fiscal year shall be consolidated annually by the Director of Naval Communications.

(2) The consolidated annual cost report will be analyzed as follows:

	<u>Man-years</u>	<u>Dollar Cost</u>
1. Personnel Expenses		
a. Military		
(1) Officer		
(2) Enlisted		
2. M & O (Operation and support)		
3. Equipment		
4. Construction		
5. Communications		
6. Research and development		

(3) The above costs will be those specifically identifiable to the ELINT program. Director of Naval Communications shall provide guidelines to all bureaus, offices, and fleet/force commanders involved for isolation of such costs. All significant cost areas shall be reported, i. e.:

1. All Bureaus and Offices
  - a. Military construction.
  - b. Research and development.
  - c. Specialized equipment procurement.
  - d. Maintenance and Operations and Personnel expenses of ashore activities.
  - e. Maintenance and Operations and Personnel expenses of ELINT Aircraft Squadrons.

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f. Expenses for Support of National Technical Processing Center, Washington.

g. All other administration and evaluation expenses related directly to ELINT program.

2. Fleet/Force Commanders and Naval Components, JCS Commands.

a. M & O and Military Personnel Utilization Special ELINT activities.

b. Maintenance and Operations Expenses and Personnel expenses of field ELINT Analysis activities.

(4) On 1 April of each year the Director of Naval Communications shall prepare the above cost report based on actual costs for current fiscal year and projected cost estimates for next fiscal year.

14. Personnel.

a. CNO (Op-30G) has the responsibility for personnel requirements and programs in support of shore-based ELINT collection activities, special augmentation of fleet units for ELINT tasks, technical processing activities, and the ELINT training of personnel.

b. CNO (Op-05) has responsibility for personnel requirements and programs in support of airborne ELINT collection activities.

c. CNO (Op-92) has the responsibility for personnel requirements and programs in support of intelligence evaluation and collation of ELINT, and for coordination within OPNAV of the ELINT program.

d. CNO (Op-92) has the responsibility for coordination within OPNAV and effecting liaison with the major fleet commands concerning the establishment within those commands of key billets required for ELINT planning and program development, and for providing appropriate guidance in the assignment of officers to those billets. Enclosure (4) lists the key commands.

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15. Research and Development.

a. Objectives. The objective of research and development for ELINT is to devise the ELINT collection and processing systems required to render maximum effectiveness in meeting the long range objectives. The system collection components, to consist of land, sea, air and satellite vehicles, and the data processing and collation systems, must provide the following:

(1) An integrated and efficient collection base providing sufficient depth of coverage.

(2) Compatibility of all systems,

(3) Rapid overall processing and collation.

(4) Timely availability in the theatre of that information required for planning and operations.

(5) Rapid availability in Washington of indications intelligence and new technical intelligence.

b. Implementation.

(1) The program associates will carry out research and development projects in direct support of requirements established by the Chief of Naval Operations, and shall plan and initiate projects required to advance the state of the art in passive electronic reconnaissance in their particular fields. Mutual support shall be provided to and by the ECM program.

(2) The development of system concepts will be facilitated by the organization established within OPNAV for coordination of the ELINT Program described in enclosure (3).

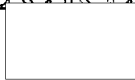
(3) Necessary coordination in the formulation of ELINT operational requirements will be provided by the ELINT Program Review Board described in enclosure (3). (Operational requirements are statements outlining in broad terms the performance to be attained in a specific system.)

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(4) Necessary coordination in the formulation of ELINT development characteristics will be provided by the ELINT Technical Guidance Committee. (Development characteristics are directives to develop a specific system or equipment described in terms of physical characteristics, operational performance and required completion date.)

THOS. S. COMBS  
Deputy Chief of Naval Operations  
(Fleet Operations and Readiness)

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30 June 1958ENCLOSURE (1)Current U.S. Navy ELINT Capability as of 1 May 1958

1. Specialized ELINT Collection Facilities.
  - a. Three shore-based units.
  - b. Two deployed aircraft squadrons configured for electronic reconnaissance.
  - c. Submarines.
  - d. Special foreign naval collection activities sponsored by the U.S. Navy.
2. Other ELINT Collection Facilities.
  - a. Surface ships.
  - b. Naval aircraft configured with passive ECM equipment.
3. Processing Facilities.
  - a. CINCNELM ELINT Processing Center.
  - b. Naval Component, PACAF ELINT Center.
  - c. Naval Component, National Technical Processing Center, Washington.
4. Evaluation and Collation Facilities.
  - a. CINCNELM Intelligence Unit and FICELM.
  - b. CINCPACFLT Intelligence Unit and FICPAC.
  - c. ACNO/DNI.
  - d. NAVSECGRU Special Intelligence Interpretive Units.

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~~ENCLOSURE (2)~~OPNAVINST 003430.2A  
30 June 1958Time Schedule for Objective Achievement

## 1. Short Range Objectives.

## a. Personnel.

(1) Air operator technical training: In progress summer 1958.

(2) Evaluator Intelligence training: In progress summer 1958.

(3) Formulate a program of personnel requirements projected two years, in 1958.

(4) Promulgate a program for training ELINT personnel for ISE within the operating forces of the Navy in 1958.

(5) Formulate the program of officer personnel management in 1958, including planning for maintenance of qualified personnel in key billets.


## b. Collection.

(1) Establish the concepts and force requirements for future electronic reconnaissance systems in 1958.

(2) Measures to improve submarine configuration are in progress.

(3) Measures to improve the quality of ELINT data from AEW squadrons, patrol squadrons, and ships, consistent with the primary mission, will be taken immediately by units, type commands, and operating commands.

(4) Improvement of the Navy ELINT exchange program has commenced, and appropriate support is being rendered.

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c. Analysis and Evaluation.

(1) Establish format, production responsibility and advisory responsibility, and initiate work on a series of evaluator training aids in 1958.

(2) Establish the concepts and analysis requirements for future periods in 1958.

(3) Feedback will be provided by ELINT processing activities, supporting specialized ELINT collecting units and deployed fleet ELINT units in the area. All data of a primary electronic reconnaissance nature will also be evaluated by the National Technical Processing Center, subject to the concurrence of that center, with copy to the appropriate commander, processing activity and the collector.

d. Dissemination. Production and wider dissemination of the most critically needed electronic intelligence in support of the various naval warfare problems will be accelerated as rapidly as possible.

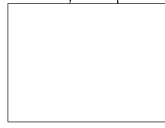
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Enclosure (2)

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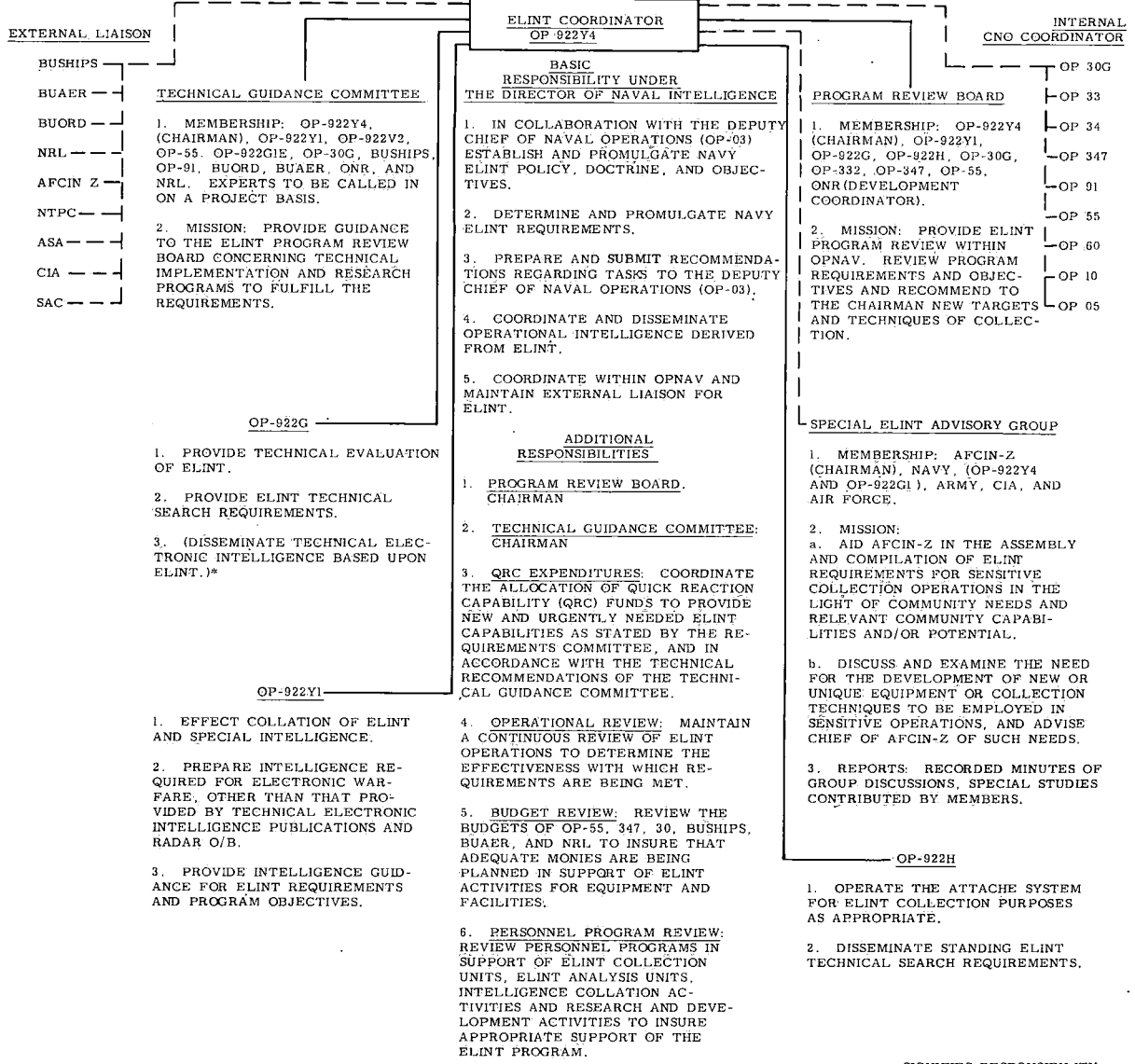


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OPNAV INST 003430.2A  
30 JUN 1958

OPNAV  
ORGANIZATION FOR ELINT PROGRAM COORDINATION

- OP 92
- OP 922
- OP 922Y



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ENCLOSURE (3)

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30 June 1958ENCLOSURE (4)Key Naval Commands in the ELINT Program

1. The commands listed below are considered to be the principal naval activities in the ELINT Program:

CINCPACFLT  
CINCLANTFLT  
FIRST FLEET  
SECOND FLEET  
SIXTH FLEET  
SEVENTH FLEET  
CINCNELMBUAER  
BUSHIPS  
ONR  
COMNAVAIRPAC  
COMNAVAIRLANT  
COMSUBPAC  
COMSUBLANT

CNO:

Op-922Y  
Op-30G  
Op-55  
Op-34

2. It is considered essential that the activities listed above, establish an ELINT capability, preferably within the existing Electronic Warfare (ECM/ECCM) billet structure for the purpose of implementing ELINT Program planning and development.

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Enclosure (4)

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