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Approved For Release 2005/01/10 : CIA-RDP83M00171R000100050021-9

The Director of Central Intelligence

Washington, D.C. 20505

Intelligence Community Staff

JUN 25 1981

MEMORANDUM FOR: Distribution

25X1 FROM:

[Redacted]

Program Assessment Office
Intelligence Community Staff

SUBJECT:

First Meeting of ELINT Exploitation Working Group

[Redacted]

25X1

1. The first meeting of the working group will be at the Community Headquarters Building [Redacted], at 1330 Hours on 29 June 1981. The agenda will include the following:

- o Objective and terms of reference of the Study,
- o Study methodology and products,
- o Schedule, and
- o Near term actions (among these is a list of all of the identifiable groups who may be affected by a change in the flow of ELINT information--exploitation centers or users--you may want to begin developing this list before the meeting.) [Redacted]

2. Please have [Redacted] certified to the ICS if you have not already done so for some other purpose. The ICS Security Officer is

[Redacted]

[Redacted]

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By WASHFAX Followed by Courier Copy:

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SUBJECT: First Meeting of ELINT Exploitation Working Group

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- 13 - DD/PAO
- 14 - PAO/
- 15 - EA/PAO
- 16 - PAO/Subject
- 17 - PAO/Chrono
- 18 - ICS Registry

DCI/ICS/PAO/
(26 June 1981)

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2 JUN 1981

25X1 MEMORANDUM FOR: [redacted]
 Director, Intelligence Community Staff

25X1 VIA: [redacted] *Out*
 Director, Program Assessment Office

25X1 FROM: [redacted]
 Program Assessment Office

25X1 SUBJECT: Memorandum to Intelligence Community Principals
 Requesting Representatives to the ELINT Applications
 Working Group [redacted]

1. Action Requested: That you sign the attached memorandum. [redacted] 25X1

2. Background: A working group is being established to support the ELINT Applications Study. I have included a detailed description of the tasks of the working group so the program managers can judge better who to assign and at what level of effort. [redacted]

3. This group will also be asked to assist, if necessary, in explaining ELINT packages to the mission experts in [redacted] NFIP ranking effort, but I have not mentioned that task in the letter since I did not want to confuse the two activities or give the impression that this was a short-term effort. [redacted] 25X1

4. Recommendation: That you sign the attached memorandum. [redacted] 25X1

[redacted]

Attachment:

[redacted] 25X1

NATIONAL SECURITY INFORMATION
 Unauthorized Disclosure Subject to
 Criminal Sanctions.

WARNING NOTICE
 INTELLIGENCE SOURCES
 AND METHODS INVOLVED

This document may be downgraded to UNCLASSIFIED upon removal of attachment.

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[redacted]

SUBJECT: Memorandum to Intelligence Community Principals Requesting
Representatives to the ELINT Applications Working Group

[Redacted]

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Distribution:

[Redacted]

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DCI/ICS/PAO

[Redacted]

(1 June 1981)

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[Redacted]

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Director
Intelligence Community Staff
Washington, D.C. 20505

9 June 1981

MEMORANDUM FOR: See Distribution

SUBJECT: Study of ELINT Exploitation

25X1

1. The Intelligence Community Staff is establishing a working group to assist in conducting the ELINT Applications Study that was described in the FY 83-87 DCI Guidance (see attached extract). The purpose of this study will be to identify the resources needed to prepare ELINT exploitation in the NFIP for the late 1980's when additional processing, analytic and reporting capability will be required to handle the increased volume, timeliness and

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collection mix. Using the information provided by your programs this June in response to the FY 83-87 DCI Guidance, the working group will conduct the study in parallel with the FY 84 program build and complete the final report by the time of the FY 84 Program Review next June.

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2. I would like to have an individual from your staff who is well-informed about both the methods of exploiting ELINT and its uses (threat assessment, I&W, operational support, etc.) assigned as a member of the working group. Your representative to the working group will:

- o review the terms of reference and methodology of the study,
- o participate in the data accumulation phase of the study,
- o provide information and briefings on the ELINT exploitation activities funded within your program, and
- o participate in the drafting of the final report in which the problems and opportunities associated with the enhancement of ELINT exploitation will be described and alternative resource allocation strategies for accomplishing such enhancement will be proposed.

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SUBJECT: Study of ELINT Applications [redacted]

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4. My Study Director will be [redacted] He will be contacting your representative separately as to the time and place of the first meeting and will be happy to answer any questions your staff might have concerning the working group or the study. The name of your representative on the working group should be provided to [redacted] by 19 June 1981. He can be reached on

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[redacted]

[redacted]

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Attachment:

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[redacted] Appendix K of FY 83-87 DCI Program Guidance)

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[redacted]

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SUBJECT: Study of ELINT Applications [redacted]

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Distribution: [redacted]

Copy 1 - Deputy Director, Central Intelligence Agency (w/att. [redacted])

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2 - Deputy Under Secretary of Defense for Policy Review (w/att. [redacted])

3 - Director, National Security Agency (w/att. [redacted])

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4 - Director, Defense Intelligence Agency (w/att. [redacted])

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5 - Director, National Reconnaissance Office (w/att. [redacted])

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6 - Director of Naval Intelligence (w/att. [redacted])

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7 - Assistant Chief of Staff for Intelligence, Department of the Air Force (w/att. [redacted])

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8 - Assistant Chief of Staff for Intelligence, Department of the Army (w/att. [redacted])

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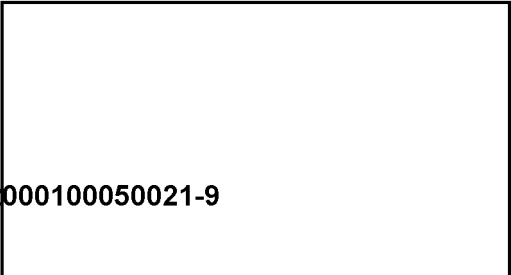
DCI/ICS/PAO [redacted]

(1 June 1981)

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SUBJECT: Study of ELINT Applications [redacted]

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- 13 - D/PBO (w/att. [redacted])
- 14 - D/IRO (w/att. [redacted])
- 15 - D/PAO (w/att. [redacted])
- 16 - AD/PGS (w/att. [redacted])
- 17 - D/CLLS (w/att. [redacted])

18 - PGS/ [redacted]

19 - C/SID/STO (w [redacted])

20 - IRO/ [redacted]

21 - PBO/ [redacted]

22 - PBO/ [redacted]

23 - PBO/ [redacted] (w/att. [redacted])

24 - PAO [redacted] (w/att. TCS [redacted])

25 - PAO/Subject (w/att. [redacted])

26 - PAO/Chrono (w/att. [redacted])

27 - Executive Registry ([redacted])

28 - ICS Registry (w/att. [redacted])

DCI/ICS/PAO [redacted]

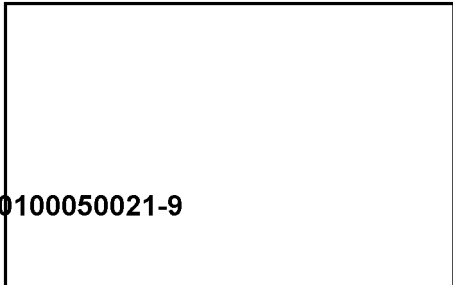
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15 January 1981

MEMORANDUM FOR THE RECORD

SUBJECT: Prospectus Review, Summary Number 6

25X1 1. A prospectus review of the ELINT Applications study was held on 8 January 1981. [redacted] and the undersigned attended the review. Purpose of this MFR is to summarize the results of that review.

25X1 a. [redacted] opened the meeting by providing [redacted] a copy of the revised prospectus. He also indicated that he plans to develop a study plan by Monday, 12 January. After meeting with [redacted] 25X1 this morning, [redacted] it appears the he will be able to allocate his time as follows: 60-70% on ELINT Application and 40-25% on the Community Inflation Working Group. 25X1

25X1 b. If [redacted] approves, [redacted] will be available to work full-time on this study until May 1981. Now that his APEX involvement should be reduced, [redacted] will also have some time to work on this effort. [redacted] will also try to identify one other person in IRO to participate in the study on more continuing basis than [redacted] can. In fact, this person [redacted] may be available to work on the SD/SS effort as well. This would then free [redacted] to provide more of his time to the ELINT Study. 25X1 25X1 25X1

25X1 c. [redacted] to meet with [redacted] 25X1 [redacted] to discuss the revised prospectus and his proposed study plan. [redacted] indicated that [redacted] to have someone [redacted] 25X1 [redacted] go through the FY 82-86 budget and identify any new initiatives in the ELINT Applications area. [redacted] is also planning to meet with [redacted] of IBM on Monday, 12 January. 25X1 25X1

d. Moe indicated that Bill could plan on having as much as \$50,000 to \$70,000 in external research funds to support this study.

e. After some discussion about how to structure the study, it was decided that PAO, at a minimum, needs a point of contact from each NFIB agency. This preserves the possibility of using a Community working group later on.

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f. [] discussed the possibility of using [] to support this effort. He also told [] on the I&W aspect of ELINT Application.

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2. Pending actions are as follows:

a. Develop a study plan by Monday, 12 January 1981.

b. Review FY 82-86 budget to determine what has been recommended to handle the increased flow of ELINT from current and/or planned collection systems.

c. Meet with [] to discuss proposed study.

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d. Initiate action to get someone under contract to provide external research support.

e. Prepare a letter for [] signature asking that Program Managers to designate a single point of contact for this study (see the letter which [] sent out on the I&W study).

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TOPIC: ELINT Applications Study [redacted]

REASON:

The collection decisions that will have been made by the end of calendar 1980 will result in substantially expanded ELINT collection capability in the late 1980's. [redacted]

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[redacted] communications and computer facilities for the distribution, storage, and analysis of ELINT. These enhancements should not be blindly added to the existing way of doing business. A review of the value of various ELINT products and the appropriateness of the current distribution, storage, and analysis methods to the future collection volumes and timeliness should be conducted. This is best done well in advance of the initiatives that will be proposed by the various ELINT users. An early review of ELINT will provide RMS maximum opportunity to identify opportunities for integration of analysis efforts; centralization of data bases; and modification of reporting, requirements, or tasking systems. [redacted]

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OBJECTIVE:

To determine how best to spend NFIP funds to make the best use of the increases in ELINT volume and timeliness expected in the late 1980's. [redacted]

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APPROACH:

1. Background Studies

This study effort will rely heavily on work that has already been done. To predict the performance of the ELINT mix, extrapolations of ELINT volume will be based on:

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- o The studies of [redacted] in 1979 and 1980 that laid the base for that decision, and

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[redacted]

The current distribution of ELINT, the uses made of it, and the problems associated with its distribution and use will be based on:

- o The ELINT Flow Study,
- o The Special Analysis Task done as a follow-on to the Flow Study,
- o The DoD audit of S&T ELINT, and
- o The S and I study of unprocessed ELINT.

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The projections of changes in future ELINT missions will be based on:

- o the post-1984 tasks in the ELINT Mix Study,
- o such studies as the Navy TENCAP Report on "An ELINT Threat Indications and Warning Feasibility Analysis," and
- o the programs as submitted by the CCP, GDIP, and NRP (some in CIAP).

2. Work Breakdown

- o Major Analytic Activities

- Phase 1--Review of the processing and utilization of ELINT.

The first step will be to study and summarize the ELINT program by re-examining the various program and budget submissions for FY 82. Studies by program managers that are already underway, or recently completed, will be identified and incorporated into the study as they become available. Those areas most in need of review will be identified and the S&T users and operational support users most likely to be affected by changes in these critical areas will be selected for intensive scrutiny.

Those program managers affected by this study will be directed in the FY 83 guidance to support the study and its associated cross-program review. In addition to providing information and assistance to this study, they will be directed to project the structure, resources, and capability of ELINT exploitation for their program as they expect it to be in 1990.

- Phase 2--Data Collection. This phase will include visits to a selected sample of technical and operational ELINT users.
- Phase 3--Characterizations of the utility and problems associated with the existing uses of ELINT. Much of the material for this phase will be generated in trip report form during Phase 2.
- Phase 4--Development of alternative proposals for distributing, storing, analyzing and disseminating ELINT and its products. The focus of this effort will be on open program and budget decisions that will have to be made in the near-term (FY 83 or 84).

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- Phase 5--Characterizations of the changes projected in the ELINT missions in the late 1980's. This will be based on projections of ELINT resource allocation for 1990 by each of the programs (as directed in the FY 83 guidance) as well as the findings of the earlier phases of this study. An example would be improved operations support for aircraft and land-based emitters comparable to that already accomplished for surface naval platforms. This will provide the basis for assessing the proposals developed in Phase 4.
- o Cross-Program ELINT Review
 - The first use of the ELINT Applications Study will be to provide the groundwork for a cross-program review of the ELINT program. Questions developed from Phases 1-5 will be distributed along with a coordination draft of the paper prior to program review. Program managers will be expected to provide comments and answers during the cross-program review.
- o Publication and Distribution
 - Incorporation of internal and external and the results of the cross-program review comments into the draft paper. This phase will culminate in publication and distribution of final product.
- o Direction in FY 84 guidance to remedy inappropriate allocation of ELINT resources identified in the study.

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3. Methodology

This study is intended to develop a comprehensive view of the requirements for, tasking of, and use of ELINT in order to review initiatives to upgrade ADP systems, consolidate data bases, centralize or delegate production, etc. This will enable PAO and IRO to predict for RMS what architecture can be expected from the existing proposals (and how the utilization of ELINT would have to be changed to suit other architectures) but the principal purpose will be to identify fundamental trade-offs and inconsistent proposals. For example, DIA has proposed to use a pre-identified set of indicators and a predictive model to enable I&W assessments to be made in the field Is this consistent with other proposals to directly downlink ELINT to tactical commanders? If it is, how much of each should be funded?

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SCHEDULE:

- o Major Analytic Activities
 - Phase 1 - January 1981 through December 1981
 - Phase 2 - February 1981 through April 1981
 - Phase 3 - March 1981 through May 1981
 - Phase 4 - April 1981 through June 1981
 - Phase 5 - May 1981 through June 1981

- o Cross-Program ELINT Review (if indicated)
 - July 1981

- o Briefing of study results to program representatives
 - August 1981

- o Publication and Distribution of final report
 - September 1981 (U)

STAFFING/ORGANIZATION

One analyst from PAO [redacted] and one or two analysts from IRO (probably [redacted] from November 1980 through August 1981. PAO level of effort will be a minimum of half-time with fulltime peaks in the December through February and May through June time periods. IRO participation would follow a similar pattern, but with minimum levels remaining to be defined. The SIGINT staff has been informally invited to participate as well. [redacted]

Substantial contractor or consultant help will be necessary for this effort to achieve the comprehensiveness envisioned in the work breakdown section. The proposed schedule is very tight and is feasible only because of the extensive work already done by the contractors listed below. Their participation is a key consideration in getting the job done.

- o Present and Future S&T uses:
 - [redacted]

- o Operational Support innovations:
 - [redacted]

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- o Present and Future Approaches to Operational Support
(especially ADP and Communication Needs):

-

These external contracts should all be sole source in order to achieve the early start required to accomplish most of this study by FY 83 Program Review and complete it by FY 83 Budget Review.

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TOPIC: ELINT Applications Study [redacted]

REASON:

The collection decisions that will have been made by the end of calendar 1980 will result in substantially expanded ELINT collection capability in the late 1980's. [redacted]

[redacted] This will require enhanced communications and computer facilities for the distribution, storage, and analysis of ELINT. These enhancements should not be blindly added to the existing way of doing business. A review of the value of various ELINT products and the appropriateness of the current distribution, storage, and analysis methods to the future collection volumes and timeliness should be conducted. This is best done well in advance of the initiatives that will be proposed by the various ELINT users. An early review of ELINT will provide RMS maximum opportunity to identify opportunities for integration of analysis efforts; centralization of data bases; and modification of reporting, requirements, or tasking systems. [redacted]

OBJECTIVE:

To determine how best to spend NFIP funds to make the best use of the increases in ELINT volume and timeliness expected in the late 1980's. [redacted]

APPROACH:

1. Background Studies

This study effort will rely heavily on work that has already been done. To predict the performance of the ELINT mix, extrapolations of ELINT volume will be based on:

- o The studies of [redacted] in 1979 and 1980 that laid the base for that decision, and

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The current distribution of ELINT, the uses made of it, and the problems associated with its distribution and use will be based on:

- o The ELINT Flow Study,
- o The Special Analysis Task done as a follow-on to the Flow Study,
- o The DoD audit of S&T ELINT, and
- o The S and I study of unprocessed ELINT.

The projections of changes in future ELINT missions will be based on:

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- o such studies as the Navy [] Report on "An ELINT Threat Indications and Warning Feasibility Analysis," and
- o the programs as submitted by the CCP, GDIP, and NRP (some in CIAP). []

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2. Work Breakdown

- o Major Analytic Activities
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- Phase 2--Data Collection. This phase will include visits to selected sample of technical and operational ELINT users.
- Phase 3--Characterizations of the utility and problems associated with the existing uses of ELINT. Much of the material for this phase will be generated in trip report form during Phase 2.
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SCHEDULE:

- o Major Analytic Activities
 - Phase 1 - November 1980 through December 1980
 - Phase 2 - January 1981 through March 1981
 - Phase 3 - February 1981 through April 1981
 - Phase 4 - March 1981 through May 1981
 - Phase 5 - April 1981 through May 1981
- o Cross-Program ELINT Review
 - May 1981 through June 1981
- o Publication and Distribution
 - July 1981 through September 1981

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STAFFING/ORGANIZATION

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- o Present and Future S&T uses:
 -
- o Operational Support innovations:

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- Phase 5--Characterizations of the changes projected in the ELINT missions in the late 1980's. An example would be improved operations support for aircraft and land-based emitters comparable to that already accomplished for surface naval platforms. This will provide the basis for assessing the proposals developed in Phase 4.

- o Cross-Program ELINT Review

The first use of the ELINT Applications Study will be to provide the groundwork for a cross-program review of the ELINT program. Questions developed from Phases 1-5 will be distributed along with a coordination draft of the paper prior to program review. Program managers will be expected to provide comments and answers during the cross-program review.

- o Publication and Distribution

Incorporation of internal and external and the results of the cross-program review comments into the draft paper. This phase will culminate in publication and distribution of final product.

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3. Methodology

This study is intended to develop a comprehensive view of the requirements for, tasking of, and use of ELINT in order to review initiatives to upgrade ADP systems, consolidate data bases, centralize or delegate production, etc. This will enable PAO and IRO to predict for RMS what architecture can be expected from the existing proposals (and how the utilization of ELINT would have to be changed to suit other architectures) but the principal purpose will be to identify fundamental trade-offs and inconsistent proposals. For example, DiA has proposed to use a pre-identified set of indicators and a predictive model to enable I&W assessments to be made in the field Is this consistent with other proposals to directly downlink ELINT to tactical commanders? If it is, how much of each should be funded?

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- o Present and Future Approaches to Operational Support
(especially ADP and Communication Needs):

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These external contracts should all be sole source in order to achieve the early start required to accomplish most of this study by FY 83 Program Review and complete it by FY 83 Budget Review.

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