

ROUTING AND TRANSMITTAL SLIP

25 JULY 1988



| TO: (Name, office symbol, room number, building, Agency/Post) | Initials | Date |
|---|----------|------|
| 1. DIRECTOR OF SECURITY | | |
| 2. [Redacted] | | |
| 3. | | |
| 4. | | |
| 5. | | |

STAT

TRANSMITTAL SLIP

DATE 15 July 1988

TO:

ROOM NO. BUILDING

REMARKS:

EXA MS 15 JUL 1988
 MS MS
 DDA MS 18 JUL 1988
 DDA MS 21 JUL 1988
 REGISTRY (FORWARD)

647: I wd hope that the 90/91 tax we just paid from our base for ORD cd be applied to this effort.

D —



| Action | File | Note and Return |
|--------------|----------------------|------------------|
| Approval | For Clearance | Per Conversation |
| As Requested | For Correction | Prepare Reply |
| Circulate | For Your Information | See Me |
| Comment | Investigate | Signature |
| Coordination | Justify | |

REMARKS

SEE DDALS NOTE

25 Jul



Deputy Director for Administration

2/05



STAT

Before I approve, please get together with ORD and identify all funding.

- 1) Program looks too ambitious for tight budget
- 2) NAPA rpt. will ask DCI to set common policy standards - should we have common IC policy?

FC 11

STAT

OS-PE-2000

ROUTING AND RECORD SHEET

SUBJECT: (Optional) Polygraph Research Five-Year Plan

FROM:
Director of Security

EXTENSION

NO. OS 88-0564

DATE 10 JUN 1988

STAT

STAT

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

RECEIVED

FORWARDED

1. D/ORD
1225 Ames

6/22/88

PE

Jim: I've concurred, but for the shuttle for 1989-92 (of for ORD have not been been identified!

25X1

3. D/OMS
1D4040 Hqs

[Handwritten signature]

STAT

5. DDS&T
6E45 Hqs

12 Jul

[Handwritten initials]

6. ADDA

21 JUL 1988

[Handwritten initials]

7. DDA
7D18 Hqs

[Handwritten initials]

9. D/Security

10.

11.

12.

13.

14.

15.

Regraded Unclassified When Separated from Attachment



10 JUN 1988

MEMORANDUM FOR: Deputy Director for Administration
Deputy Director for Science & Technology

VIA: Director of Research & Development
Director of Medical Services

FROM:
Director of Security

STAT

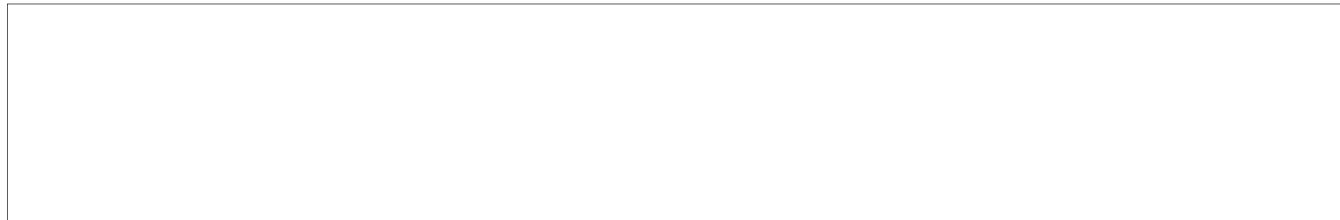
SUBJECT: Polygraph Research Five-Year Plan

REFERENCE: Inspector General's 1987 Report on the
Agency Polygraph Program

25X1 1. The referenced report recommends that a five year polygraph research and funding plan be developed. The proposed plan, set forth below, is essentially an updated version of the polygraph research plan developed in 1986. This submission reflects two additional years planning as well as the organizational changes which have taken place in the polygraph research arena over the past year. This plan requires total resources of and from people per year for the next five years.

2. The structure of the polygraph research organization was altered substantially on 17 September 1987. A Polygraph Steering Committee (PSC) was formed which is accountable to the Chief, Polygraph Division (PD), the Polygraph Program Manager. The PSC oversees four newly formed working groups covering Instrumentation, Validity, Countermeasures and Methodology. The bulk of the polygraph research is being done under the auspices of one of these working groups. Polygraph Division's in-house research facility is conducting applied research, generally in support of one or more of the above working groups. The PSC is also advisory to the Polygraph Program Manager regarding polygraph research being sponsored by the Office of Research & Development (ORD). The Committee is informational to the Personnel Security Research Panel (PSRP) regarding milestones endorsed by the Polygraph Program Manager. The PSRP is advisory to the Director of Security.

25X1



S E C R E T

3. The following initiatives constitute the current activities of the Polygraph Research Program:

INSTRUMENTATION WORKING GROUP - This Group, with representation from the Office of Security/Polygraph Division (OS/PD), OS/Engineering Division (ED), OS/Research & Analysis Staff (RAS), ORD and the Office of Medical Services (OMS), is chaired by the Chief, Information Systems Branch (INSB/ED). This group recently completed a program plan designed to produce a Modern Polygraph System (MPS). The Group has prepared the System Requirements specifications for an initial brassboard model which is expected to be available by May 1989. Evaluation and testing of this model will follow and lead to the production of engineering models of the MPS, Phase I. Enhancement to the MPS is planned in two additional phases over a five year period with each phase providing greater utility and support to the polygrapher in performing an examination. Education and training regarding the MPS will parallel its development and incorporate expected feedback. The detailed Polygraph Instrumentation Program Plan (PIPP), including resource requirements, is attached. The Information Systems Branch will include a five year projection in the Plan when it is published again in the second quarter of FY88.

25X1 INSB funding to support the MPS in FY88 is [] for
 25X1 the production of an MPS Phase I brassboard and the
 25X1 updating of the PIPP. In FY89, [] will be required for
 25X1 the procurement of Phase I engineering models, evaluation
 25X1 and testing of the Phase I hardware and software, the
 25X1 preparation of further refinements to the MPS (Phase II and
 25X1 III) requirements, the development of a Phase II brassboard
 25X1 and updating the PIPP. FY90 funding of [] will include
 25X1 Phase II evaluation and testing and the completion of
 25X1 enhanced requirements to the MPS Phase III requirements and
 25X1 updating the PIPP. FY91 funding of [] will include
 25X1 tasks for the development and testing of special interfaces
 25X1 and software for MPS Phase III, development of a portable
 25X1 MPS, evaluation and testing of Phase III, support for MPS
 25X1 Phase III procurement by Polygraph Division and updating
 25X1 the PIPP. FY92 funding of [] will include support to
 25X1 Polygraph Division for the procurement and the installation
 25X1 of Phase III, special modifications to the MPS software and
 25X1 the evaluation and testing of MPS Phase III. The manpower
 25X1 to support the above tasks is three people for each Fiscal
 25X1 Year.

25X1 OS/PD support of the above effort, including equipment
 25X1 procurement and systems engineering and integration, will
 25X1 require [] for FY88, [] each for FY89 & 90 and []

25X1 each for FY91 & 92. The procurement of the production model MPS will be funded through OS/PD at an anticipated cost of [] in FY91 and [] in FY92.

VALIDITY WORKING GROUP - The Polygraph Validity Working Group (PVWG), chaired by a Research Psychologist from Research Branch, Research & Information Systems Division, OMS, was formed in September 1987. The PVWG consists of representatives from OMS, OS and ORD. The first major task of the working group is to develop a research methodology designed to assess the validity of the specific polygraph interviewing procedures now being used in the Agency. The target date for completion of this research plan is December 1988.

The research methods developed by this group will be specifically designed to investigate the issues related to the validity of the polygraph interview when used in the context of employment screening (i.e., applicant processing, trial, and reinvestigation polygraphs). Every effort will be made to develop procedures that take into account specific criticisms of past validation studies of the polygraph technique when used in the screening mode.

In FY89, the research proposals developed by the PVWG will be implemented. It is anticipated that as the results of these studies become available, new research plans will be developed and original proposals modified. Polygraph validation research in the Agency will be long-term, continuing and evolving.

Funding during FY89 will be for travel to meet with methodological experts in the public and private sectors. Additionally, we may wish to host interagency (CIA, DOD, NSA, FBI) meetings to coordinate validation research and to distribute the draft research proposal for external review.

25X1 Total estimated funding for FY89 is [] Funding requirements beyond 1989 are difficult to estimate; however, they can be expected to equal or exceed the FY89 requirements. We anticipate that all research will be conducted within the Agency by individuals expert in research design and analysis. The particular Agency components responsible for executing this research have yet to be determined.

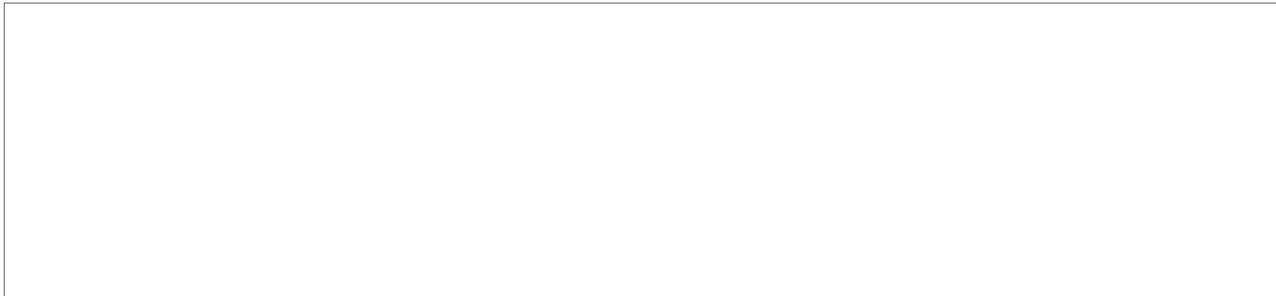
COUNTERMEASURES WORKING GROUP - The Chief of the Polygraph Division Research Section has been designated to chair the Countermeasures Working Group. Funding was made available in FY87 for [] [] to assist in the development of a Counter-

STAT
STAT

measures Research Program Plan. A two-day conference was held 7 and 8 December 1987, which was attended by experts within and outside of Government for the purpose of identifying the issues and objectives that should be included in the plan. Individuals from within CIA will supplement the work of [redacted] to address the unique aspects of the countermeasures threat posed by the operational cases conducted for the Directorate of Operations. The target date for completion of this research plan is December 1988.

STAT

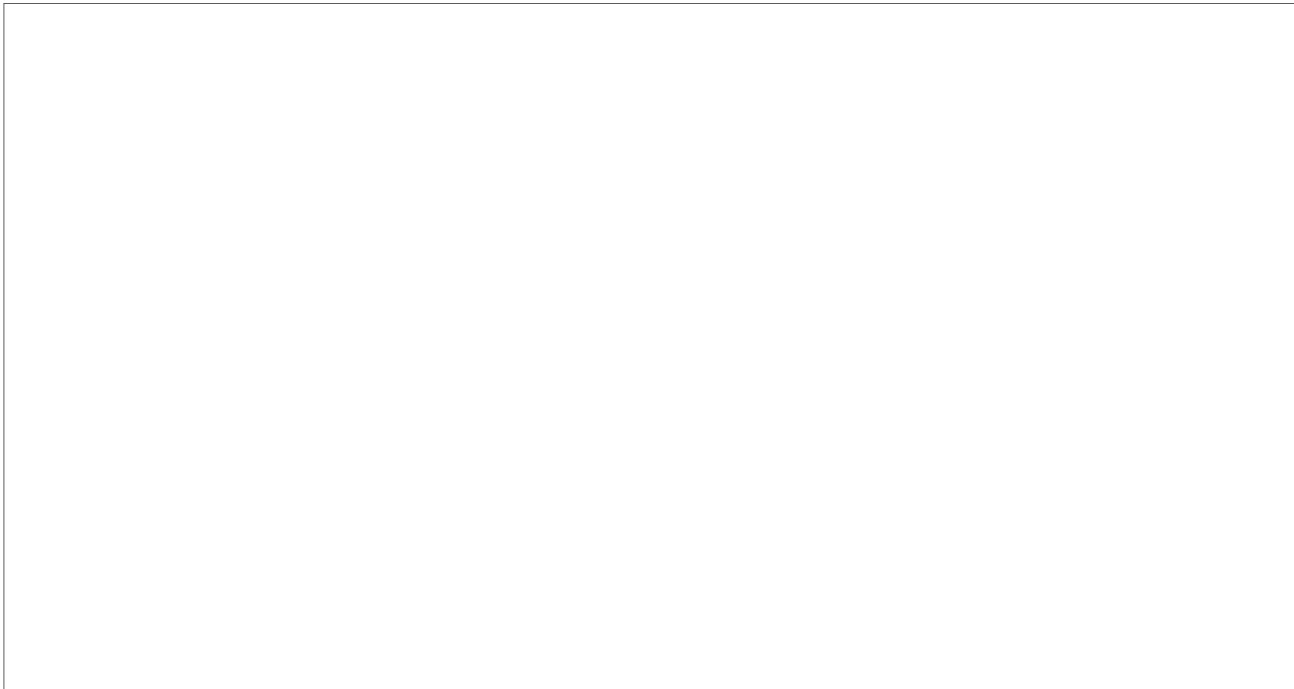
25X1



25X1

Funding resources in the amount of [redacted] per year, beginning in FY89, are needed to fund countermeasures research. It is possible that the Countermeasures Research Program being developed will provide requirements for additional countermeasures research. This amount will allow one new countermeasures research initiative per year and also provide funding for one follow-on project per year. This level of funding should result in significant improvement in developing the ability to detect, counter and respond to countermeasures that will continually be directed at our operational testing program.

25X1



METHODOLOGY WORKING GROUP - This Group, chaired by the Chief, Training Section, Polygraph School, PD/OS, was formed in November 1987. The Polygraph Steering Committee decided that methodology research could best be accomplished by participating in an interagency directed effort supplemented by CIA-sponsored research for any unique requirements not addressed by the interagency effort. The Interagency Group is chaired by [redacted] Chief Polygraph and Personnel Security, NSA. Other members include Dr. William Yankee and Dr. Gordon Barland from the Defense Polygraph Institute and the Chairmen of the CIA Countermeasures and Methodology Working Groups. No funding is anticipated for methodology research projects during FY88 and 89. Funding requirements for research in FY90, 91, and 92 are estimated to be [redacted] per year in order to accommodate methodology research in support of the Modern Polygraph System. Funding requirements will be greater if the majority of the research is not conducted within the Agency.

STAT
STAT

25X1

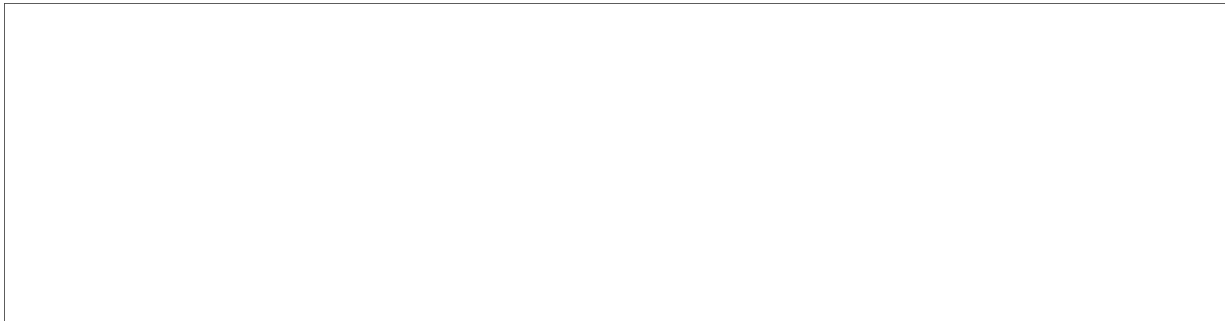
4. The above working groups represent an organizational division of labor according to function. They are designed to address the basic research requirements of the Agency's polygraph program. Each of these working groups is dependent upon the goodwill and resources of the members' managers. The Working Groups, however, are supported by two additional offices with long term specific charters to address polygraph research needs.

OFFICE OF RESEARCH AND DEVELOPMENT - The role of ORD in the Agency's polygraph research program has been primarily to investigate approaches and technologies 5 to 20 years in the future. Recently ORD has also assisted in developing the Modern Polygraph System Requirements, and continues to assist in drafting engineering requirements for that system. ORD will also help incorporate new measures [redacted] into the MPS. In addition, ORD will contribute in an advisory capacity in validity, countermeasures and methodology research.

25X1

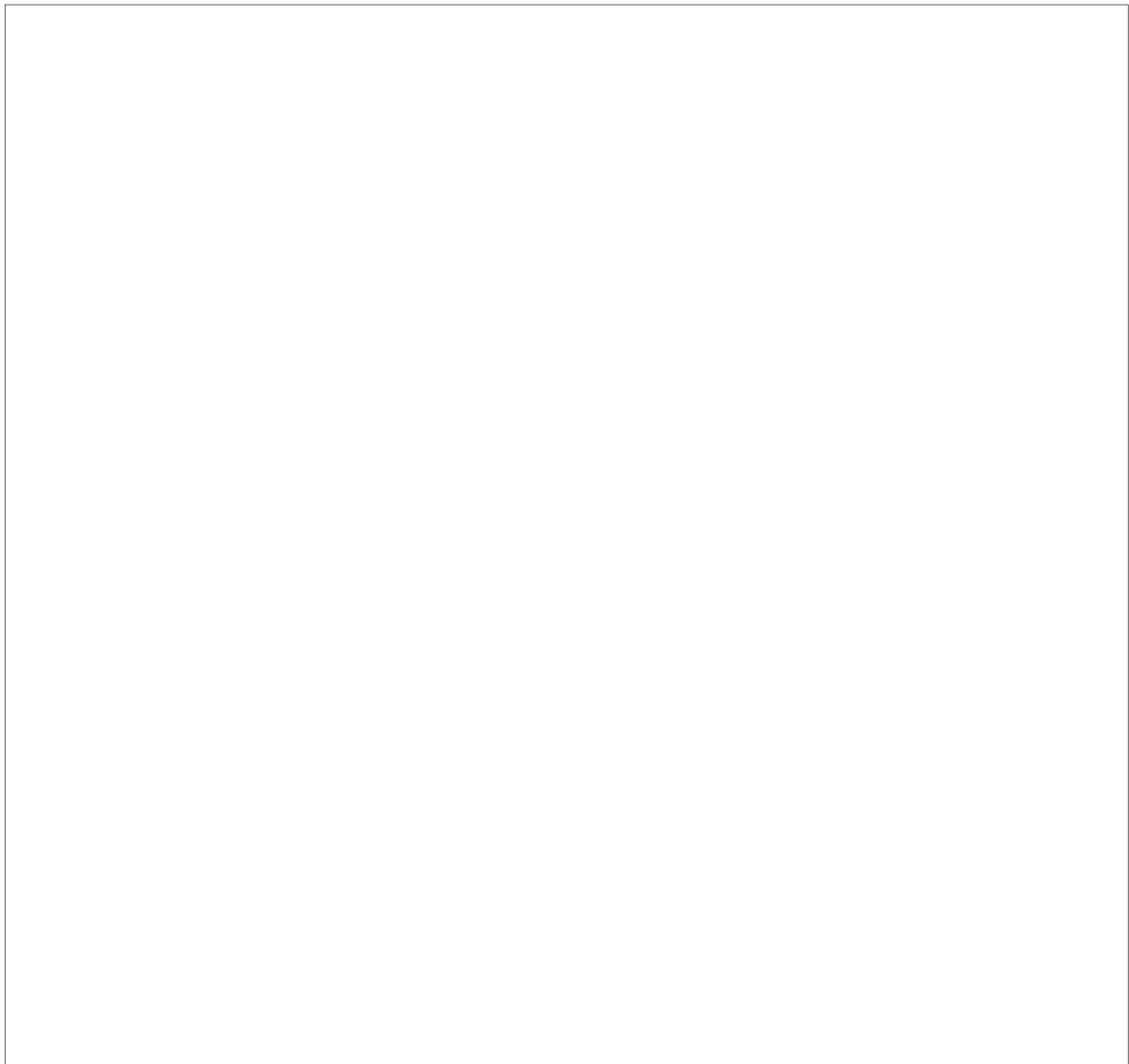
Currently, ORD sponsors four projects in support of polygraphy, with three other projects in planning:

25X1



Page Denied

25X1



25X1

25X1

25X1

25X1

The funding requirements identified in the attachments to this plan for the ORD research for FY88-FY92 are [redacted]

[redacted] The current budget for ORD's polygraph research for FY88-FY92 is [redacted]

[redacted] based on funds coming from the countermeasures initiative. Any future cuts in the countermeasures initiative will affect the funding levels currently budgeted. Also, if all of the current projects are successful, these budgeted funds will prove inadequate. The Instrumentation Program Plan called for funding in the amounts of [redacted] for FY88-90, respectively; amounts thought to be necessary to continue all current research. Additionally, ORD is examining the possibility of increasing its support of the Instrumentation Program [redacted]

25X1

25X1

25X1

[redacted] The figures shown in the Funding Requirements attachment, and noted above,

represent a preliminary projection of the funding needed for this increased effort, assuming that such an increase will not be possible until FY90. Equally critical to the success of the ORD effort is staffing. ORD currently has one person assigned to polygraph research. The increased effort will require two additional slots.

POLYGRAPH RESEARCH FACILITY - This facility will continue to engage in applied polygraph research. The research done here is intended to provide near term support to the on-line examiner and ongoing support to the above working groups. Current near term projects include:

Automation of Data Collection; [REDACTED]

[REDACTED] Computer Assisted Polygraph Validation; Automated Storage and Retrieval System for Polygraph Research Literature; and Development of a Laboratory Facility [REDACTED]

[REDACTED] Any prototype or methodology developed in any working group will be tested in this facility.

For FY88, [REDACTED] is necessary in order to fund additional equipment to complete the data automation system and to purchase software, supplies, maintenance contracts and reference books for a research library. It is estimated this amount can be reduced to [REDACTED] for each year from FY89, through FY92.

5. The funds and positions needed to accommodate the Polygraph Research program have been included in the program plans of ORD and OS/ED. For ORD to meet the agenda, additional funds and slots are required as discussed in paragraph 4. Polygraph Division has programmed for the necessary positions to support this effort in FY89 and the necessary funding beginning in FY90. However, to meet the OS/PD agenda in FY88 and 89, internal Personnel Security program funds will be reprogrammed.

6. The above five year plan represents a coordinated effort on the part of OS, ORD and OMS to meet the Agency's future polygraph needs. The persons involved are making a substantial contribution toward this effort.



STAT

ATTACHMENTS:

- A. Polygraph Research Funding Requirements
- B. Polygraph Research Project Schedule
- C. Polygraph Research Manpower Requirements
- D. Polygraph Instrumentation Program Plan

25X1



SUBJECT: Polygraph Research Five-Year Plan

CONCUR:

[Redacted Signature]

Director of Research & Development

6/22/88
Date

STAT

[Redacted Signature]

Director of Medical Services

30 June 88
Date

STAT

APPROVED:

Deputy Director for Administration

Date

[Redacted Signature]

Deputy Director for Science and Technology

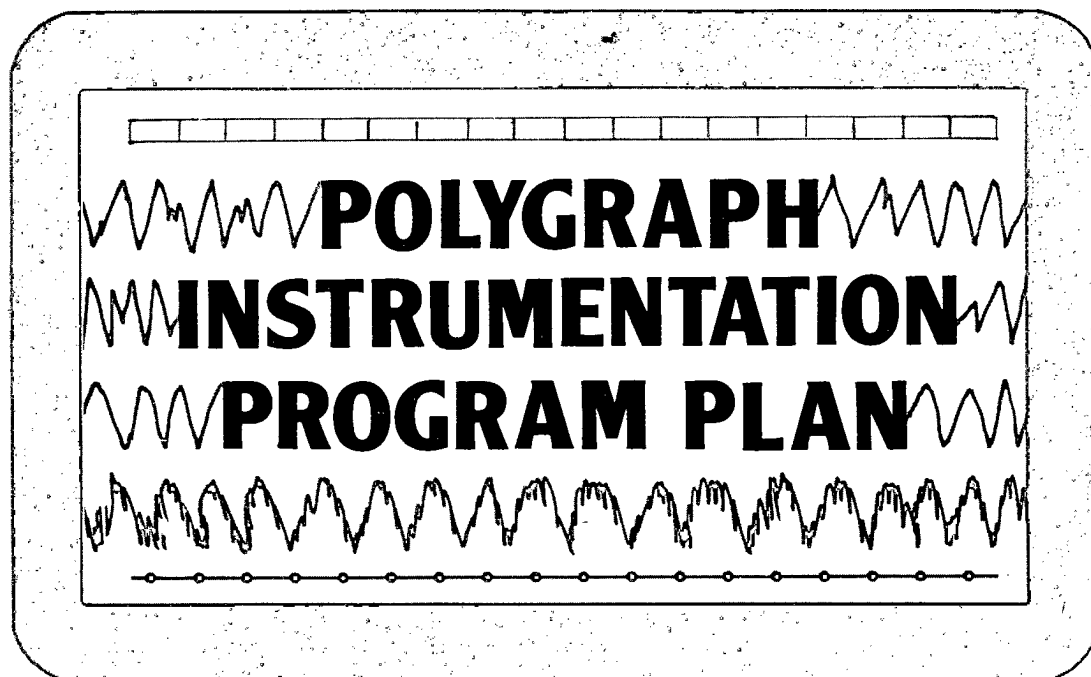
12 July 88
Date

STAT

Page Denied

Next 3 Page(s) In Document Denied

~~CONFIDENTIAL~~



August 1987



CONFIDENTIAL