

DOCUMENT NO. _____
NO CHANGE IN CLASS.
DECLASSIFIED
CLASS. CHANGED TO: TS S (C) 2011 8 February 1954
NEXT REVIEW DATE: _____
AUTH: _____
DATE: 8/10/81 REVIEWER: 037169

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MEMORANDUM FOR: THE RECORD

SUBJECT: Meeting with _____

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1. Time and Place of Meeting: 25, 26, and 27 January 1954, at the offices of APD.

2. Attendance: _____

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3. Purpose: To discuss projects P-60B, P-102, P-103, P-109, P-93 and P-139.

4. Discussion:

P-60B, Night Landing System, U.V.:

1. _____ will hand-carry Supplement #1 to _____ for signature.

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2. Pictures of phosphor targets to show discoloring and sample of phosphors given to APD by _____

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3. Second supplement proposal specifying additional work to be done to be prepared by _____

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4. APD is to investigate availability of a C47 for use in testing the autocollimators. It will be necessary to mount an ultraviolet source on the plane. _____ would be a desirable location for tests. Arrangements to be made through _____

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P-93, Communication System VLF Ground Waves:

1. Action on proposal was being held up pending APD contact with Grady and Hunter of ONR for status of feasibility study. The contact yielded no information.

2. BuShips, Code 520, Mine Countermeasures, can provide background on water aspect.

3. [] has a good background of extensive experience in this field; [] has had experience helpful in the water aspect while [] has had experience with the ground aspect.

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4. Recommendation will be made to the APD Panel that a task be initiated for work on this project by []

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P-102, Transducers Indexing and Cataloging and P-103, Actuators Indexing and Cataloging:

1. [] presented the philosophy of the cataloging programs, namely, that the transducer and actuator with an intermediate amplifier was a communication system to which information theory could be applied. The figure of merit will be a comparison of the transducer performance based on the uncertainty principle. He also explained the details of the mechanics of cataloging. A complete report of this presentation will be forwarded to APD by []

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2. [] will have the final details ready to present at a meeting to take place near the end of February at []

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3. APD received a proposal for Phase 2 of the Actuator Index. The increase in funds proposed is \$15,295.80 for one year beginning 15 May 1954. It is expected that \$2500.00 will remain from Phase I at the expiration on 15 May 1954.

4. It was tentatively agreed that 5 copies of the index would be produced under the research tasks. Additional sets would be ordered on a separate task at a cost of about \$50.00 per set.

P-109, Contact Microphone:

1. Report on Phase A received by APD.

2. Proposal on Phase B received by APD.

3. Drawings of two mike test [] setups received by APD.

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4. [] was given two BAL10, two BB140, and two Dynalab mikes.

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5. APD will obtain a metal detector for []

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6. A BuStand report on mike testing is available. [] now has a copy.

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P-139, Decoder:

- 1. Requirement still being investigated by APD with BuStand, [redacted] Some or all contacts will be made.

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Subminiature Recorder:

- 1. Action on proposal withheld by APD pending further investigation of requirements and feasibility.

Telephone Number Recorder:

- 1. APD will investigate interest and requirements.

Magnetic Gradient Indicator:

- 1. This problem had been discussed with [redacted] by [redacted] APD but no other member of APD had any knowledge of the requirements.

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5. Actions: APD:

- 1. P-60B - Obtain use of C-47 airplane for field tests.
- 2. P-93 - Submit recommendation to APD Panel that tasks be initiated with [redacted]
- 3. P-139 - Make contacts with BuStand, [redacted]
- 4. P-109 - Get Metal Detector for [redacted]
- 5. Subminiature Recorder - Investigate requirements and feasibility.
- 6. Telephone Number Recorder - Investigate interest and requirements.

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- 7. Magnetic Gradient Indicator - Discuss problem with [redacted]

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5. Maryland Actuator Program

Actions: [redacted]

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Maryl.

- 1. P-60B - Submit Supplement 2.

- 2. P-102, 103 - Send report of presentation of philosophy and mechanical details of cataloging.

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Distribution:
P-60B, P-102, P-103,
P-109, P-93, P-139,

[redacted]

TSS/APD

[redacted] Chrono
or

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