

NATIONAL MILITARY ESTABLISHMENT
RESEARCH AND DEVELOPMENT BOARD
WASHINGTON 25, D. C.*29.14*

Committee on Electronics

2 June 1949

MEMORANDUM FOR: Subpanel on Systems

SUBJECT: Meeting of the Subpanel

1. There will be a meeting of the Subpanel on Systems of the Panel on Communication as follows:

Time: 0930

Place: Room 800, 60 Hudson Street
New York, N. Y.

Date: 9 June 1949

2. Discussion will include the following:

- (a) Discussion of Technical Estimates for Systems.
- (b) Items of systems interest as listed in the minutes of the 2nd meeting. Service representatives are requested to be prepared to discuss these items as well as similar items not listed such as Navy Department, CIC programs.
- (c) System Standards. The Army member is requested to review the status of work on the establishment of Communication System Standards.

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Danc. Army member
is also from Signal Corps
Smaller

J. E. MILLAR
Chairman
Subpanel on Systems

CC Dr. Edward Samson

LCM 65/2

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RESEARCH AND DEVELOPMENT BOARD
Committee on Electronics
Panel on Communication
Subpanel on Systems

24 March 1949

MINUTES
Of the Second Meeting
Held 23 March 1949
Room 1641, Main Navy
Washington, D. C.

Present:

- Dr. Knox C. Black, Chairman
- Mr. Robert F. Brady, OCSigO (M)
- Lt. Cmdr. J. W. Jones, CNO (..)
- Dr. H. Y. Littlefield, AIC (II)
- Col. J. Z. Millar, WU (CM)
- Mr. William M. Richardson, ONR (II)
- Mr. Stuart Schram, Jr., AIC (..)

Also Present:

- Mr. F. A. Ackerson, CNO
- Mr. C. A. Stay, CNO
- Mr. A. Small, ASA

Absent:

- Mr. Howard T. Hart, AF (II)

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LCM 63/2 (Cont'd)

1. Field of Interest

Subpanel agreed to accept the field of interest (LCM 63/1.1, 28 Feb. 1949) with the addition of one subparagraph referring to system standards. The directive of the subpanel will be the same as that for the Panel on Communications except for the limited field of interest.

Action. The matter will be submitted to the Panel on Communications for approval at its next meeting by J. Z. Miller.

2. Allocation of Responsibility

No action at this meeting.

3. Summary Charts and Systems Projects

The Service members brought in notes on development projects which might be considered systems developments.

- 3.1 USAF. The Watson Laboratories submitted one item from the summary charts and from items not previously listed of which three were mentioned under section 3.5 of previous Minutes (AN/CPS-6B, AN/PS-7 / FPS-3, and AN/MSQ-1). The systems of which these projects form a part, in a recommendation by the Panel on Radar, will be allocated to the USAF. The project "Study of Automatic Transmission of Information within USAF Systems," should be included under section on Integrated Systems in the next edition of the summary charts of Research and Development Projects. Items 17 and 18 of Section on Terminal Equipment, Teletype, are to be carried as primary responsibility of the Subpanel on Systems.

Projects 38 and 48 Research, are considered of secondary interest to the Subpanel on Systems. It was suggested that a representative of the Cambridge Laboratory be invited to participate in the Subpanel on Systems activity.

It appears that the Belt Line project is of interest to the Subpanel on Systems and Mr. Schram was asked to investigate the project and report.

- 3.2 Army. The Bell System-Signal Corps contract identified as No. 38115, and on which a 1-A form has been initiated, should be listed under Integrated Systems.

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LCL 63/2 (Cont'd)

The following items have secondary interest to the Subpanel on Systems:

Item 1, of Sec. 1.2, Investigation of Relative Merits of 20 cps and 60 cps ringing supplies. X

Item 2, Investigation of Automatic Trunk Dial Systems.

Item 7, Systems Control Board for Circuit Patching, etc.

Item 8, Voice Operated Control Unit for Interconnecting two Tactical Radio Sets at Relay or Switching Point, etc.

Item 9, Remote Control Device for Facilitating the Interconnection of Radio and Wire Elements of Communication Networks.

Item 1, Section 3.6. General Security Research.

Item 2, Security Investigations.

Item 2, Section 6.0. Investigation of Various Types of Telemetering Methods.

Item 9, Research into Methods of Modulation and Multiplexing.

Item 10, Research Study of Types of Transmission Possible in Various Frequency Bands throughout the Spectrum. 15 kc to 30,000 mc.

Item 12, Modulation Studies, etc.

Item 22, Investigation of Broad Band Transmission in Radio Relay Equipment.

3.3 Navy. Report on the Navy Fox broadcasts is of primary interest to the Subpanel on Systems.

The ONR contract with John Hopkins and on which a 1-A card has been proposed should also be carried as the primary responsibility of the Subpanel on Systems.

Secondary Interests are:

Item 16, Section 1.3, Impulse Communication Terminal Equipment VOFLAG, and Item 17, Airborne Position of VOFLAG.

Item 16, Section 2.3, SHF Radio Relay Link for Ships - Wide Band for Various Communication and Data Transmission Services.

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Item 28, Section 6, Communications Studies - (This should be coordinated with the John Hopkins project.

4. At the recommendation of the WL representative, the old overall systems summaries would not be required since current technical estimates fulfill the same requirements and it was agreed that there would be no need to bring them up to date.
5. Service representatives were informed that Technical Estimates for Systems Projects would be required before May 1, 1949. Information should be prepared and Service representatives are requested to present this information for discussion at the next meeting of the Subpanel at which time a first draft will be prepared.
6. Mr. Brady will supply Communications Systems Bibliography next meeting.
7. Systems Standards have been prepared and should be supplied to the Subpanel by the Army representative.
8. The problem of evaluation of the needs of circuits, both in tactical and strategic communication with a view to obtaining maximum circuit utilization was discussed. It was agreed that the Services be requested to review their needs and methods of assignment.

Action. K. C. Black and J. Z. Miller will prepare a document for discussion and possible action by the Panel on Communication. If carried forward these surveys will lead to economies of development and manufacturing effort in time of war.

9. Next Meeting.

Time and place will be announced.

*Recomm discussion of our
MET system*

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