REF ID: A56901

NATIONAL MILITARY ESTABLISHMENT RESEARCH AND DEVELOPMENT BOARD WASHINGTON 25, D C. 1.29.14

Committee on Electronies

2 June 1949

MEMORANDUM FOR: Subpanel on Justems

SUBJECT:

Meeting of the Subpanel

1. There will be a meeting of the Subpanel on Systems of the Famel 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.

Dane. army mender of in also from Signal in for

J. Z. MILLAR Chairman Subpanel on Systems

CC Dr. Edward Samson

6-3-5

REF ID:A56901

LCII 65/2 R.LS

RESEARCH AND DEVILOP ANT 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, ChO (.)
Dr. H. Y. Littlefield, A.K (H)
Col. J. Z. Millar, WU (CM)
Mr. William M. Richardson, ONR (H)
Mr. Stuart Schram, Jr., A.C (..)

Also Present:

Mr. C. A. Stay, CNO Mr. A. Small, ASA

Absent:

Fr. Howard T. Hart, AF (H)

This document contains information affecting the national defense of the United States in thin the meaning of the Espionage Act, 50 U.S.C., 31 and 32. The transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

REF ID:A56901

LCII 63/2 (Contid)

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. Millar.

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 Ir. 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.

REF ID: A56901

LCL 63/2 (Contid)

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.

Iten 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 Switishing Point, etc.

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

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 Nethods of Modulation and Multiplexing.

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

Item 12, Modulation Studies, etc.

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

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

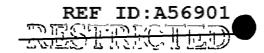
The ONR contract with John Ropkins and on which a 1-A card has been proposed should also be carried as the primary responsibility of the Subpanel on Systems.

Secondary Interests are:

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

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

LCH 63/2 (Contid)



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

- 4. At the recommendation of the VIL 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 Co. munications 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. Tillar 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 wall be announced.

Alconnel disession our MET system