REF ID:A66606

HONGO POARD BOARD 12 November 19/17

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PIESERT:

Lajor Jack H. Faulds Enjor Hamill D. Jones Enjor Maurico H. Klein 18 t. Lt. H. S. Buchanan Er. Harry L. Clark Frs. Ethel Fish Dr. S. Kullback Er. Alfred L. Rose Er. Frank B. Roylett

PROLOTIONS:

The following promotions were submitted to the Poard for review:

Nichard C. Hix From Electrical Engineer, P-A, C-N-18-15 to Electrical Engineer, P-5, O-H-18-118

Upon presentation of Pr. Hix's case, Pr. Rowlett made the motion that the action be approved. The motion was seconded and it was voted that the promotion was approved.

John 1. Beckman From Electrical Engineer, 7-3, 0-HL-CC-8-1 to Electrical Engineer, 7-4, C-HL-CC-9-3

Upon presentation of ir. Beckman's case, Fr. Nowlett made the motion that the action be approved. The motion was seconded and it was voted that the promotion was approved.

Leigh A. Brite From Electrical Engineer, P-2, O-EL-CG-108 to Electrical Engineer, P-3, C-EL-CG-364-1

Upon presentation of Mr. Brite's case, Mr. Rowlett stated that there was no comparable person in the same competitive level therefore he recommended that the action be approved. The motion was seconded and it was voted that the promotion was approved.

THERE BEING NO FURTHER SUBJECTS FOR DISCUSSION, THE BOARD ADJOURNED AT 1008 HOURS.

Declassified and approved for release by NSA on 04-17-2014 pursuant to E.O. 13526

John L. Sullivan

Chairman

Civilian Employment Board

CONFIDENTIAL

REF ID: A6660@

A5-14 Rm. A-116

Mr. Fried

CIVILIAN EXPLOYMENT BOARD

ACCEDA

For the meeting to be held 1300 Wednesday, 12 November 1947, 12 117 Hg.

(Kr. Sallivan's secretary is requested to attend to take mirates)

1. Review of promotions in critical grades

- (a) Richard C. Him Electrical Engineer, P-4, 0-81-15-15 to Electrical Engineer, P-5, O-51-13-118
- (b) John L. Beckman Electrical Angineer, P-J, O-M-CC-8-1 to Medical Engineer, P-4, O-M-CC-9-3
 - (c) Leigh A. Brite Electrical Angineer, P-2, O-AL-CG-108 to Electrical Engineer, P-3, O-EL-CC-364-1

HIX, EICHARD C. Electrical Engineer, P-5

Daties and Responsibilities

Serves as assistant Chief, Intercept Equipment Branch, which is responsible for the design, development, and construction of equipment, peculiar to the mission of Army Security Agency, for detecting, identifying and intercepting signal communications and for use in controlling such activities and handling intercept traffic. Assists the Chief in the direction and control of the technicial and administrative work and assumes his full design in his absence.

- A. Assists in planning and organizing the Branch development program.
- 1. Recommends to Branch Chief the initiation of research projects, recognizing need for carrying on basic research from knowledge of (a) problems encountered in current intercept and development work and (b) anticipated long-range requirements.
- 2. Conducts basic research program. On own initiative but subject to the approval of the Branch Chief makes changes in the course of the research and in the priorities assigned to the various problems to be investigated.
- 3. Serves as advisor to Branch Chief in the preparation of time and cost estimates for anticipated projects, including (a) projects initiated within and outside the Branch and (b) long-range plans as well as specific projects to meet current requirements. Is required to have considerable engineering experience and ability in order to evaluate the scope and complexity of new projects and draw conclusions as to the number of engineering hours required, number of laboratory hours, number of personnel and degree of ability, cost, adequacy of facilities, completion date. Mades detailed investigations, reports findings, and discusses estimates with Branch Chief who is responsible for making Branch recommendation as to whether project should be initiated.
- A. Serves as advisor to Branch Chief in determining whether project should be undertaken locally or by contract. Makes investigation to determine time, cost, and facilities involved. As delegated by Branch Chief, makes initial contacts for awarding contracts to commercial concerns in order to discuss technical matters and to determine whether engineering personnel and plant facilities are adequate for handling contract. Reports findings to Branch Chief with recommendations.
- B. Is directly responsible for making project assignments, reviewing, and coordinating the work on all projects under development within the Branch. Has full supervisory authority over branch personnel on all operational matters.



HIZ, RICHARD C. Electrical Engineer, P-5

Duties and Responsibilities (Continued)

- l. Establishes specific operating policies, practices, prodeduces and standards applicable to the work of the branch, e.g., specifies type of reports to be submitted by project engineers; engineering standards; production standards.
- 2. Eakes assignments of projects to section heads subject to approval of Branch Chief, makes changes in organization and physical set-up of Branch to insure efficient operation in the right of changing conditions and assignments. Conducts long-range research project by making assignment (s) of major portions to section head(s) and coordinating the various projects into total research programs.
- 3. Reviews and a proves plans made by section heads for approach to project assignment. Review projects during various developmental stages and advise subordinates on difficult aspects of the work, that is, on problems on which little previous research has been done, e.g., the various engineering and operational problems which must be considered in the design of a universal terminal equipment to receive many types of sequented and interlaced time-division impulse transmission.
- 4. Reviews engineering reports, manuals, specifications, etc., substited by section heads for approval of Branch Chief, Checks to insure that all aspects of the assignment have been covered; that explanations are adequate and clearly stated; and that conclusions and recommunications are feasible.
- 5. Trains subordinate engineers in techniques specifically a plicable to intercept problems. Is responsible for the complete orientation of new personnel and for keeping all engineers informed of current developments which are pertinent. Holds meetings, conferences, and training classes as necessary.
 - 6. Performs various administrative duties in addition to the supervision of current operations, such as investigating unusual priority supply problems, originating and answering correspondence on technical matters, preparing and reviewing efficiency ratings on engineers and laboratory mechanics.
 - C. Engages in liaison activities with (1) other Branches and divisions within the agency for the purpose of determining specific requirements and general trend in requirements for intercept equipment and (2) outside agencies, or Kavy and Signal Corps for the exchange of information on related development work.
 - D. Prepares special reports and makes special investigations which do

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HIL, RICHARD C. Electrical Engineer, P-5

Duties and Responsibilities (Continued)

not fall within the scope of a single section, e.g., recommentations, from an engineering and functional viewpoint as to whether centralized or local terminal equipment would more satisfactorily meet the requirements of the agency; report results of tests and developments to other laboratories (Navy, S. C.); makes investigation and requests information from outside concerns on their developments.

- M. Serves on various technical committees and attends meetings within and outside agency on matters relating to the mission of the branch.
- 1. Serves as alternate member of the sub-committee on Intercept and D/F Operations of the Joint Army-Mavy Committee, the purpose of which is to effect coordination of intercept activities among Army, Mavy, and British.
- 2. Serves as member of Receiver Committee at Signal Corps Laboratories. Present Agency's requirements for such equipment as would be adaptable to intercept.
- J. As delegated, attends meetings of Signal Corps Technical Consittee. Currently, the discussions are concerned with general trand of Signal Corps development work and standardization of equipment for the Army.
- 4. Serves as member of sub-committee on Intercept and Direction Finding of the Army Security Agency Technical Committee.

malifications:

- a. Education Degree in Slectrical Engineering with major in communications or its equivalent in education and experience.
- b. Experience At least 4 years professional engineering experience in design, development and construction of radio comme ications and electronic equipment. Of these 4 years, one year concerned with design of antennas, transmission lines and receivers, one multiplex terminals, and one year's experience in the ASA concerned with the design and development of intercept equipment for the Agency. At least one year's experience in supervising and coordinating the efforts of several lower grade engineers and laboratory assistants, reviewing angineering reports, carrying on liaison, writing reports and correspondence. A head of a section in the Intercept Equipment Branch who has held that position for at least 1 year is aligible for the position of Assistant Branch Chief.



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John A. Beckman Electrical Ingineer, P-4

Outles and Responsibilities

Under the supervision of an engineer of higher grade, serves as project engineer for research and development problems of major importance and difficulty in the field of ciphony. Receives guidance concerning broad objectives and major engineering and administrative policies with final responsibility for the formulation of working plans, the devising or adaptation of methods, and the completion of assignment in accordance with technical standards. Coordinates all aspects of the work from initial statement of result desired to final solution of problem or final development of project under consideration.

- A. Directs broad research, development, and testing projects with responsibility for planning and completion and for the development of new techniques, not based upon established principles, to must the technical problems involved in:
 - 1. Developing ciphony equipment to meet specific requirements necessitating the use of numerous and original electronic circuits, e.g., Speech Equipment, AN/CS-5.
 - a. Translates general characteristics into specific engineering problems and makes initial determinations as to method (or methods) of approach.
 - b. Constructs, tests, and modifies experimental models to establish operating principles and security features.
 - c. Designs final models to meet requirements of space, weight, constructional features, manufacturability, etc.
 - d. Supervises a small group of engineers and technicians engaged in designing, constructing, and testing.
 - 2. Testing developed models, analyzing performances, and recommending changes in the design and operation of equipment, e.g., Speech Equipment, AN/OS (-3, which involves the proper operation of numberous types of special electronic circuits. Terminals are in 3 sepatate locations, each terminal weighs 4000 lbs. and contains approximately 750 tubes, and complete unit has sometary value of approximately \$3000,000.
 - a. Flans and directs testing program.
 - b. Devises tests and designs specialised apparatus for use in testing equipment.



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John A. Beckman Electrical Engineer, P-4

Duties and Responsibilities (Continued)

- c. Analyses results to determine acceptability of additional units, makes modifications, and, when feasible, recommends edesign.
- d. Supervises a small group of engineers and technicians engaged in conducting tests and designing and constructing test equipment.
- 3. Conducting research studies of complex nature, investigating new methods of transmission and encipherment of speech to provide security, e.g., pulse techniques as applied to ciphony; frequency sultiplying and frequency dividing of voice signals.
 - Jetermines approach and, when necessary, askes assignment of sub-projects.
 - b. Designs, constructs, and tests experimental models.
 - s. Makes recommendations with serve as a basis for the development and construction of equipment to meet given set of military characteristics.
 - d. Supervises a small group of engineers and technicians when necessary to design, construct, and test components of equipment.
 - B. Writes or supervises the preparation of engineering reports, including project history, results, and recommendations. Is responsible for the technical validity and adequacy of results.
 - C. Writes specifications or supplies engineering information to be included in specifications for contracts with connercial concerns.
 - D. Engages in limison activities with: (1) commercial concerns developing equipment under contract to insure fulfillment of specifications; (2) Agencies engaged in related work, such as May, Bureau of Standards, for exchange of information; (3) using forces of other units of the Army Security Agency to supply information as to proper operation and maintenance, analyse performance records, and when necessary, recommend design changes to correct failures.
 - E. Performs related duties in connection with:
 - 1. Procurement of supplies and equipment.

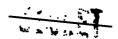


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John A. Beckman Meetrical Angineer, Pol SECREI)

Duties and Assponsibilities (Continue)

- 2. Review of technical reports.
- 3. Authorisation of shop work,
- F. May serve as sub-section head with responsibility for the technical supervision of subordinate engineers and, when mecessary, for the administrative control over project engineers of the same grade. In the latter instance, serves chiefly as a reporting channel by making assignment of large-scale project and following up to insure completion upon date set without responsibility for validity and adequacy of results.



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MATTE, LEICH A. Mostrical Engineer, P-3 OFORET

Buties and Responsibilities

Under general supervision of an electrical engineer, (P-5), performs professional engineering duties in the design and development of eifax equipment, (1) assuming responsibility for making independent decisions necessary for the sempletion of an assignment involving the application of known techniques and (2) referring to his superior all decisions about experimental techniques involving radical departure from established practice.

Is responsible for a small project or for one phase of a large project senducted by a project engineer or section head (Example 1. Design electromagnetic portion of geared timing mechanism for key generators. Example 2. Re-design any of SPR-3 necessary to increase operating efficiency. Receives assignment in the form of statement of specific conditions to be entisfied by circuit or device or outline of objectives to be attained, (e.g., precise timing, constant amplitude, proper wave shape, limited as to power requirement and weight) with a suggested method of solution or a general plan of attack. Is responsible for planning the details of methods and procedures to be used in carrying through to completion assigned project involving design, testing, analyzing results, and making recommendations. Work is reviewed for technical validity, edequacy, and adherence to general methods and objectives. Performs or supervises the work involved in the various phases of development of a typical project. R.g., Redesign of SPR-3.

- 1. Discusses problems with section head or higher grade agineer to clarify requirements and recommend solutions.
- 2. Develops equipment or components of equipment usually requiring the use of complex circuits.
- a. Plans specific working methods. Smally makes detailed block and schessic diagrams. Determines specific limitations, investigates new development to detect useful techniques, and makes tests and calculations to analyze and evaluate experimental techniques. Devises test procedures and determines course of development work from evaluation of results. Must have thorough knowledge of electronic and electro-machanical principles in order to amplify and implement general suggestions for solution.
- b. Designs novel and critical portions, e.g., electro-magnetic circuits medesitating the use of components with extremely close tolerances and/or synchronizing circuits with critical requirements. Sircuits must meet many specialised requirements, and often necessitate the experimental use of newly-developed aircuit components.
- a. Is responsible for the building and testing of experimental and/or prototype models. May supervise engineers and lab mechanics in this work.



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BRITE, LFIGH A. Electrical Engineer, P-3

Duties and Responsibilities (Continued)

- 1. Plans the most suitable layout, considering case of operation, maintenance, and adaptation. Provides the necessary drawings and supervises construction.
- 2. Plans and supervises testing. Develops specialized test equipment as needed (e.g., error counter for SPR-3). Conducts tests during various stages of development and upon completion of project.
- 3. Analyses test results and makes design changes to improve performance. Determines whether or not finished model meets project objective.
- d. As necessary, writes engineering reports, makes recommendations relative to engineering policy (e.g., acceptability of final model from emetractor), prepares specifications, and provides instructions for operation and maintenance of equipment.

