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RESEARCH AND DEVELOPMENT*file 1957*

PAE 3/7

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MinutesSeventh Meeting -- 8 November 1957Technical Advisory Panel on Atomic EnergyAgenda Items:

1. PAE Minutes: The minutes of the 4th and 5th PAE meetings were approved as issued. The minutes of the 6th PAE meeting were approved as corrected.
2. CCAE Minutes: The minutes of the 4th, 5th, 6th and 7th CCME meetings were noted. The Chairman will informally advise the ASD R&D that some of the CCME actions are not in accord with previous Panel advice.
3. Research Reactor for WADC: The Panel recommended that the research reactor for WADC be deferred pending more serious consideration and possible revision of design specifications. The Panel expects the total cost of this facility to be of the order of 2 million dollars.
4. Reactor Fundamentals: Dr. Kenneth Davis of the Reactor Division of AEC briefed the Panel and guests on "Reactor Fundamentals".
5. Radiological Sterilization of Food: Col. William D. Jackson, Dr. Ralph Siu, and Capt. Albert G. Pomoranz of the Army Quartermaster Corps, briefed the Panel and guests on the "Radiological Sterilization of Food".
6. Radiological Contamination: Dr. Robert F. Bacher discussed with the Panel the steps he is taking to fulfill his assignment to generate, for the Panel, advice concerning radiological contamination. The Panel has been requested to advise the ASD R&D on this subject. Dr. Bacher will informally advise the ASD R&D concerning his preliminary findings.

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Agenda Items:

7. Shock Simulation: The Panel will ask a technical consultant to conduct a review of shock simulation. The Secretary will obtain the reaction of the ASD R&D to the Panel proposal to ask Dr. Walker Bloakney of Princeton University to conduct this review.
8. New Line of Nuclear Weapons: As a result of the Panel's survey of AEC development programs during the tour of Western facilities in July, the Panel recommended to the Chairman of the CCME that consideration be given to a new line of nuclear weapons.
9. Aircraft Nuclear Propulsion: The Panel plans to review the ANP program during a two-day tour of facilities on 7 and 8 March 1955.
10. Army Power Plant: As a matter of record, the Panel is of the opinion that the Army nuclear power plant development is not proceeding in accordance with Panel recommendations.
11. Small Betty: The Secretary was requested to prepare a summary status report on the development of the Navy's small Betty, and to forward copies to Panel members before the next meeting.
12. R&D-Applications Engineering Coordination: The Panel was advised of the recent merger of Research and Development and Applications Engineering Coordinating Committees on Piloted Aircraft, Guided Missiles, Electronics and Ordnance. In general, Technical Advisory Panels are being asked to serve both R&D and Applications Engineering. The Panel considers no action on its part is required at this time.
13. Panel Meeting Dates: The Panel concluded that it is not possible to schedule regular meeting dates in advance, but that the Panel should at each meeting select a date for the next meeting, subject to change as circumstances may require.

Members were requested to reserve 8 December 1954 for a possible Panel meeting if required. The Panel will meet 7 and 8 March 1955 to review the ANP program during a tour of ANP facilities.

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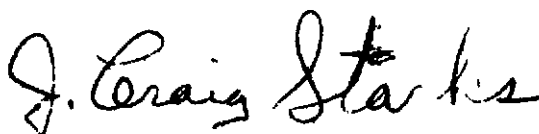
Agenda Items:

14. Joint Panel on Aircraft-Armament Compatibility: Dr. MacNair has about completed his assignment with the Joint Panel on Aircraft-Armament Compatibility, and expects to be available for the next P&E meeting.

Other Matters:

1. New Panel Members: During lunch the Panel discussed Panel operations in general and new Panel members in particular. The ASD R&D will be asked to consider naming two additional Panel members; (1) Dr. Hans Bethe, and one of the following in the order listed, Dr. W. H. Zinn, Dr. Eugene Wigner, Dr. Manson Benedict or Dr. Harvey Brooks, in that order. The Secretary was instructed to follow this matter.

Submitted for the Approval of the Panel:



J. CRAIG STARKS
Secretary

ATTENDANCE

Members:

Present

Mr. Harry A. Winne, Chairman
Dr. Robert F. Bacher
Dr. E. V. Murphree

Absent

Dr. Walter D. MacNair
Dr. John von Neumann

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