LAMD-669

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ADWD-271

Redacted VERSION

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FAMILY COMMITTEE
Minutes of Thirty-Sixth Meeting
June 6, 1951

SAA2000700/

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW-DATE: 8-26-97 DETERMINATION [CIRCLE NUMBER(S)] 1. CLASSIFICATION RETAINED 2. CLASSIFICATION CHANGED TO 3. CONTAINS NO DOE CLASSIFIED INFO 4. COORDINATE WITH: 5. CLASSIFICATION CANCELLED
AUTHORITY: DADC DADC DADD
NAME: 2nd REVIEW-DATE: 11/18/97

A. Attendance.

The thirty-sixth meeting of the Family Committee was held Wednesday, June 6, 1951 at 9:00 A.M. in Room B-117. Those present were:

H. A. Bethe	E. R. Jette
F. de Hoffmann	D. P. MacDougall
D. K. Froman	J. C. Mark
R. W. Goranson	E. Teller, Chairman
M. G. Holloway	

B. Minutes of Thirty-fifth Meeting.

The Committee unanimously adopted the minutes of the thirty-fifth meeting as reported in ADWD-252.

C. Greenhouse.

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He emphasized that everything had gone more or less according to expectations and that all the experiments seemed to have performed exceedingly well.

DOE b(3)

D. Highball.

Teller reported that Rosenbluth and Tuck had been examining several highball models from the point of view of shooting one in the buster tests. So far, they have not come up with a design of practical interest. The Family Committee therefore agreed that no highball shot would be proposed for Buster. It may be that a model of interest might be proposed within the next three months so that consideration might be given to a winter or spring test of a highball.

Theoretical discussions tend in the direction of gaseous D-T mixtures so that high compressions can be achieved.

Holloway emphasized that nevertheless it would be a good idea to have some indication by the beginning of 1952 whether boosted implosion weapons are likely to be of importance so that mechanical design of implosion weapons might anticipate booster needs.

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E. Large-scale Thermonuclear Reactions.

[redacted] These are discussed separately below.

1. [redacted] Any change has been in a slightly optimistic direction, such as the recent indication that the DT cross-sections are higher. The preparatory work towards putting the problem on the Maniac is almost complete. Parallel to the Maniac work, theoretical progress is being made on such problems as radiation emission due to relativistic electron-electron collisions. [redacted] Teller recommended that this work continue at the present rate and that the effort not be speeded up by much, except that when the Maniac is ready, more personnel will be needed temporarily to carry out some of the calculations.

2. [redacted] In particular, setups for machine calculations on the SEAC are progressing satisfactorily and the group consisting of Nordheim, Peck and Richtmyer expect to put the problem on the SEAC by June 15, 1951. [redacted] It would seem that considerably more theoretical information will be available from these calculations as early as September or October 1951. [redacted] However, there would not seem to be any great need to expand the effort of this group considerably.

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Two test possibilities present themselves.

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