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Land - 538

FAMILY COMMITTEE
Minutes of Thirty-First Meeting
January 18, 1951

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ADWD-237

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Unique Document #

A. Attendance.

The thirty-first meeting of the Family Committee was held Thursday, January 18, 1951 at 1:15 PM in Room B-110. Those present were:

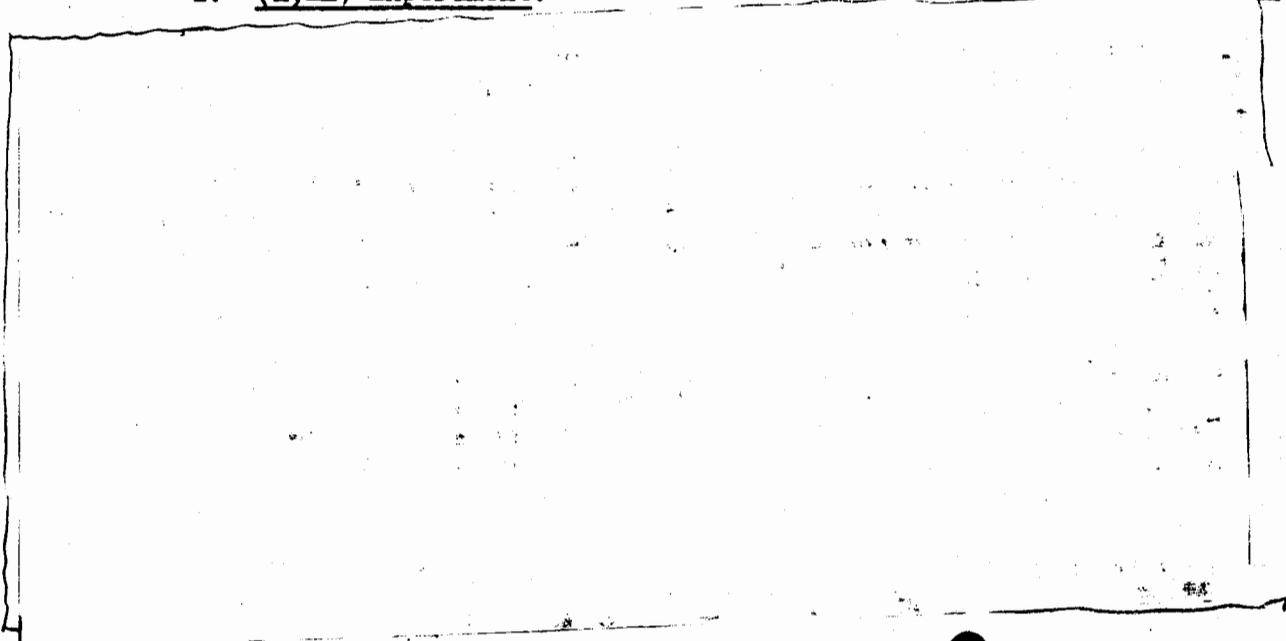
- | | |
|----------------|---------------------|
| H. A. Bethe | M. G. Holloway |
| N. E. Bradbury | E. R. Jette |
| A. Broyles | C. Longmire |
| J. C. Clark | D. P. MacDougall |
| F. de Hoffmann | J. C. Mark |
| D. K. Froman | R. F. Taschek |
| B. Freeman | E. Teller, Chairman |
| R. W. Goranson | J. Toll |
| A. C. Graves | J. A. Wheeler |

B. Minutes of Thirtieth Meeting.

The Committee unanimously adopted the minutes of the thirtieth meeting as reported in ADWD-235.

C.

1. (n,2n) Experiment.



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2. Efficiency and Initiator.

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In view of this high requirement, the Committee re-examined the entire efficiency and initiator question.

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[Redacted]

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In view of this the Committee drew up the following requirements for efficiency and initiator.

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The proposed mixture can be machined.

The Committee stated that the mixture proposed by CMR was entirely acceptable.

4. Theoretical Calculations.

Wheeler continued his report of last week. The calculations for the burning of the DT have now been completed for three cases and almost completed for a fourth case.

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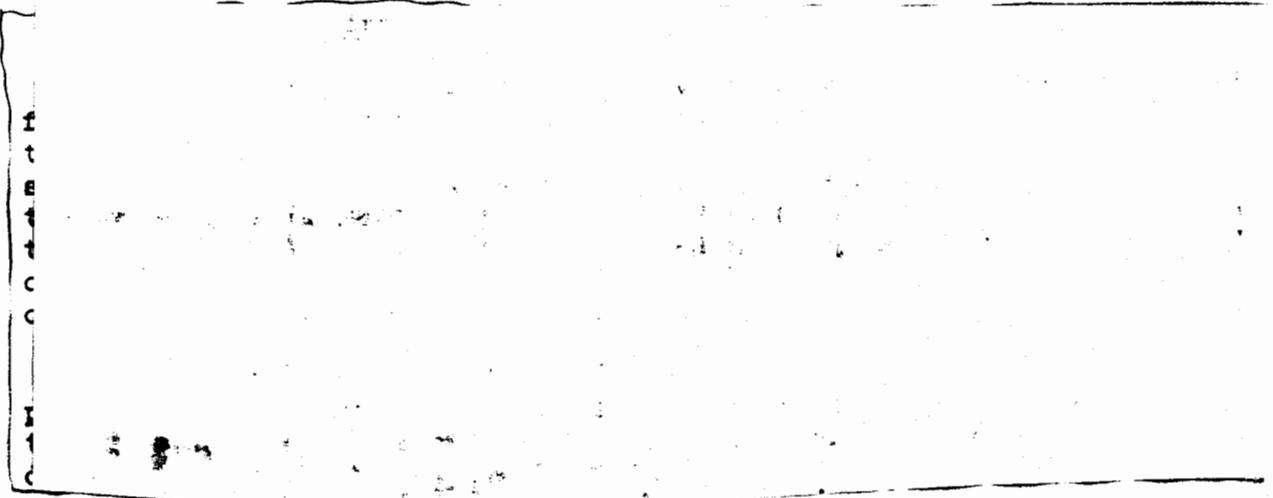
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In connection with the DT burning calculations, this would seem to lie well within the range of acceptable temperatures.



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6. General Considerations.

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In particular, in case of success, one will have the satisfaction of establishing the thermonuclear reaction as a firm basis for further development along these lines. The experiment is a good scientific experiment since if it proves successful, one will have followed the course of the reaction with a considerable number of detailed experiments.

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It was noted that the cost of booster operations except for the cost of the active material itself was already largely expended to date by both CMR and J Divisions.

7. Decisions.

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The word "failure" will be sharpened up in discussions at subsequent Family meetings.

D. Next Meeting.

There will be no meeting for three or four weeks.

Frederic de Hoffmann
Executive Secretary

Distribution

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|-----|------------------|-----|----------------|
| 1A | N. E. Bradbury | 25A | E. Teller |
| 2A | W. C. Bright | 26A | " " |
| 3A | S. W. Burriss | 27A | " " |
| 4A | J. C. Clark | 28A | " " |
| 5A | D. K. Froman | 29A | " " |
| 6A | R. W. Goranson | 30A | J. von Neumann |
| 7A | A. C. Graves | 31A | J. A. Wheeler |
| 8A | G. K. Hess | 32A | Document Room |
| 9A | M. G. Holloway | 33A | " " |
| 10A | E. R. Jette | 34A | " " |
| 11A | " " " | 35A | " " |
| 12A | J. M. B. Kellogg | 36A | " " |
| 13A | J. L. Tuck | 37A | " " |
| 14A | D. P. MacDougall | 38A | " " |
| 15A | " " " | 39A | C. Longmire |
| 16A | D. P. MacMillan | 40A | R. W. Spence |
| 17A | J. H. Manley | 41A | A. C. Graves |
| 18A | J. C. Mark | 42A | R. C. Smith |
| 19A | H. C. Paxton | 43A | W. E. Ogle |
| 20A | F. Reines | 44A | E. Teller |
| 21A | " " " | 45A | " " |
| 22A | " " " | 46A | " " |
| 23A | A. R. Sayer | 47A | " " |
| 24A | R. F. Taschek | 48A | " " |

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