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VERSION**

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TMG-M37

**H**

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*W.D. Family*

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*9/5/2000*

This document consists of 4 pages

September 4, 1952

MINUTES OF THE THIRTY-SEVENTH MEETING OF THE THEORETICAL MEGATON GROUP  
3 September 1952

1. The thirty-seventh meeting of the TMG convened at 9:00 AM on Wednesday, 3 September 1952, in the W-Division Conference Room. Those present were:

- |                |                      |
|----------------|----------------------|
| R. L. Aamodt   | R. M. Landshoff      |
| H. A. Bethe    | C. L. Longmire       |
| N. E. Bradbury | P. Lax               |
| G. Breit       | J. C. Mark, Chairman |
| W. C. Bright   | W. E. Ogle           |
| A. A. Broyles  | J. C. Potts          |
| J. Calkin      | O. W. Rechar         |
| G. A. Cowan    | F. Reines            |
| E. Fermi       | M. Rosenbluth        |
| B. E. Freeman  | B. R. Suydam         |
| D. K. Froman   | T. B. Taylor         |
| A. C. Graves   | J. L. Tuck           |
| F. C. Hoyt     | M. C. Walske         |

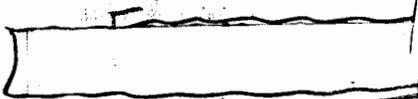
B. E. Watt

Topics

2. Burning Calculations.
3. Upshot.

2. Burning Calculations

New listings of results of the CHIEF calculation (TMG-M32; 4) have arrived. Graphs are to be prepared soon.



Longmire considers this as optimistic.

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW DATE: 8-14-97
AUTHORITY: EAO/CD/DC/BRDD
NAME: [Signature]
2ND REVIEW DATE: 5-13-97
AUTHORITY: ADD
NAME: [Signature]
DETERMINATION (CIRCLE NUMBER(S)) <input type="checkbox"/> 1. CLASSIFICATION RETAINED <input checked="" type="checkbox"/> 2. CLASSIFICATION CHANGED TO: <input type="checkbox"/> 3. CONTAINS NO DOE CLASSIFIED INFO <input type="checkbox"/> 4. COORDINATE WITH: <input checked="" type="checkbox"/> 5. CLASSIFICATION CANCELLED <input type="checkbox"/> 6. CLASSIFIED INFO BRACKETED <input type="checkbox"/> 7. OTHER (SPECIFY):

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3. Upshot

3.1 Li<sup>6</sup> mixing experiment.

Walske and Cowan estimate that fractionation, and uncertainty of duration of burning and geometry limit the accuracy of interpreting the radiochemical results to 25%. Graves stated that this experiment is expected to be an air drop.

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3.2

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This was opposed because of the different equation of state.

[Redacted]

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Broyles has scaled the isothermal shock calculation (TMG-M26; 4) to this case.

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There are further some minor variations depending on intuition as to possible danger points.

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More consistent calculations should be made.

b) minimizing weight for deliverability.

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3.5 Combination of shots.

There was some discussion how to tie the experiments together.

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Rolf Landshoff  
Rolf Landshoff

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Distribution:

- 1A - H. Barschall
- 2A - G. Bell
- 3A - H. A. Bethe
- 4A - W. Bouricius
- 5A - N. E. Bradbury
- 6A - S. W. Burriss
- 7A - J. Calkin
- 8A - B. G. Carlson
- 9A - E. D. Cashwell
- 10A - F. de Hoffmann
- 11A - F. Evans
- 12A - B. E. Freeman
- 13A - D. K. Froman
- 14A - A. C. Graves
- 15A - D. B. Hall
- 16A - L. E. Hightower
- 17A - M. G. Holloway
- 18A - F. C. Hoyt
- 19A - E. R. Jette
- 20A - R. M. Landshoff
- 21A - C. L. Longmire
- 22A - J. C. Mark
- 23A - H. L. Mayer
- 24A - N. Metropolis
- 25A - L. W. Nordheim
- 26A - W. E. Ogle
- 27A - J. Pasta
- 28A - F. Reines
- 29A - R. D. Richtmyer
- 30A - M. Rosenbluth
- 31A - R. W. Spence
- 32A - P. R. Stein
- 33A - E. Teller
- 34A - J. L. Tuck
- 35A - S. M. Ulam
- 36A - J. von Neumann
- 37A - M. C. Walske
- 38A - B. E. Watt
- 39A - J. A. Wheeler
- 40A - H. F. York
- 41A - E. J. Zadina
- 42A - Report Library
- 43A - Report Library
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