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LAMD-451

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FAMILY COMMITTEE
Minutes of Twenty-Fifth Meeting
October 19, 1950

ADWD-203

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Unique Document #

A. Attendance.

The twenty-fifth meeting of the Family Committee was held Thursday, October 19, 1950 at 1:15 PM in Room B-117. Those present were:

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

B. Minutes of the Twenty-Fourth Meeting.

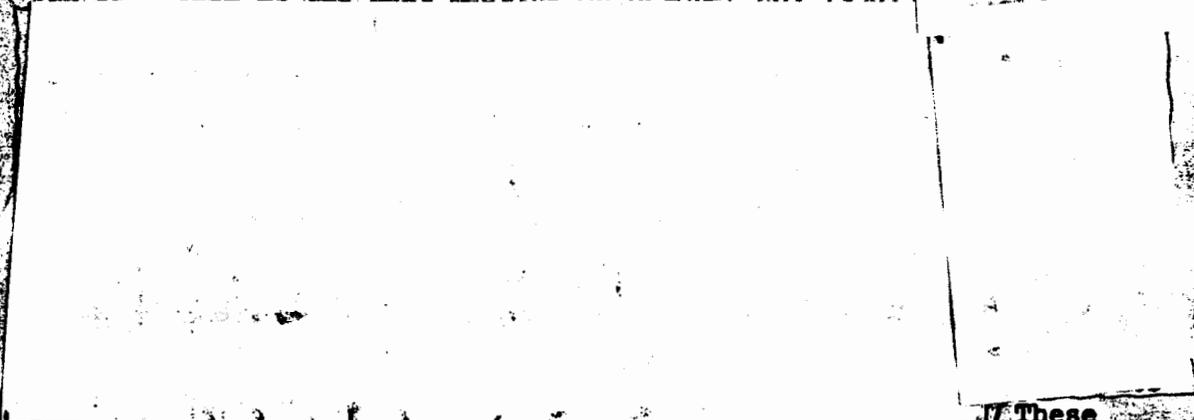
The Committee unanimously adopted the minutes of the twenty-fourth meeting reported in ADWD-197 with the following correction:

On page 3, in lines 3 and 10, the word "re-examined" should read "re-affirmed."

On page 4, item G-1, please note discussion in the present set of minutes, item D-3.

C. Booster.

Teller reported that the calculations on the booster were nearing completion and that it is fully expected that all dimensions can be frozen at the next meeting on October 26, 1950.



amounts were agreed to.

These

It will of course, influence the actual boosting of the fission reaction yield. The alpha and efficiency measurements are likely to be slightly less sensitive but not sufficiently so to be worrisome.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1. DETERMINATION (CIRCLE NUMBER(S))
2. CLASSIFICATION RETAINED
3. CLASSIFICATION CHANGED TO:
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFO BRACKETED
7. OTHER (SPECIFY)
1ST REVIEW DATE: 8/22/77
AUTHORITY: DAOC DAOC DAOC DAOC
NAME: [Signature]
2ND REVIEW DATE: 9/15/97
AUTHORITY: [Signature]
NAME: [Signature]

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Weapon Data -

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It was noted that this (n,2n) experiment is expected to give the total flux of 14 mev neutrons to a considerably greater accuracy than any of the other experiments designed to yield this quantity.

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In view of the above, MacDougall reported that he would proceed with the HE assembly for the booster.

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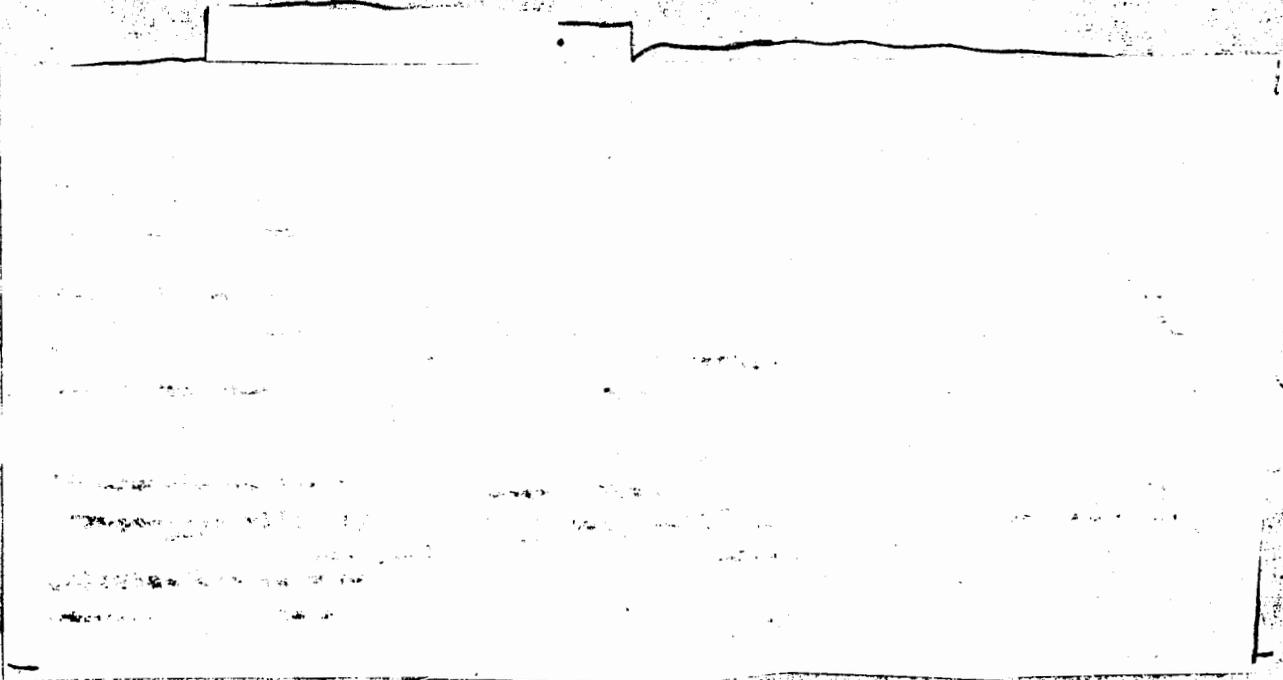
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Holloway agreed to prepare appropriate drawings of the booster for next week's meeting. It was agreed that T Division should furnish Holloway with the necessary specifications by Tuesday, October 24th.

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Of these, memorandum ADWD-3-9 is appended as Appendix A to these minutes for information purposes. As to the other three memoranda, the relevant portions are incorporated below in connection with each item that was discussed.

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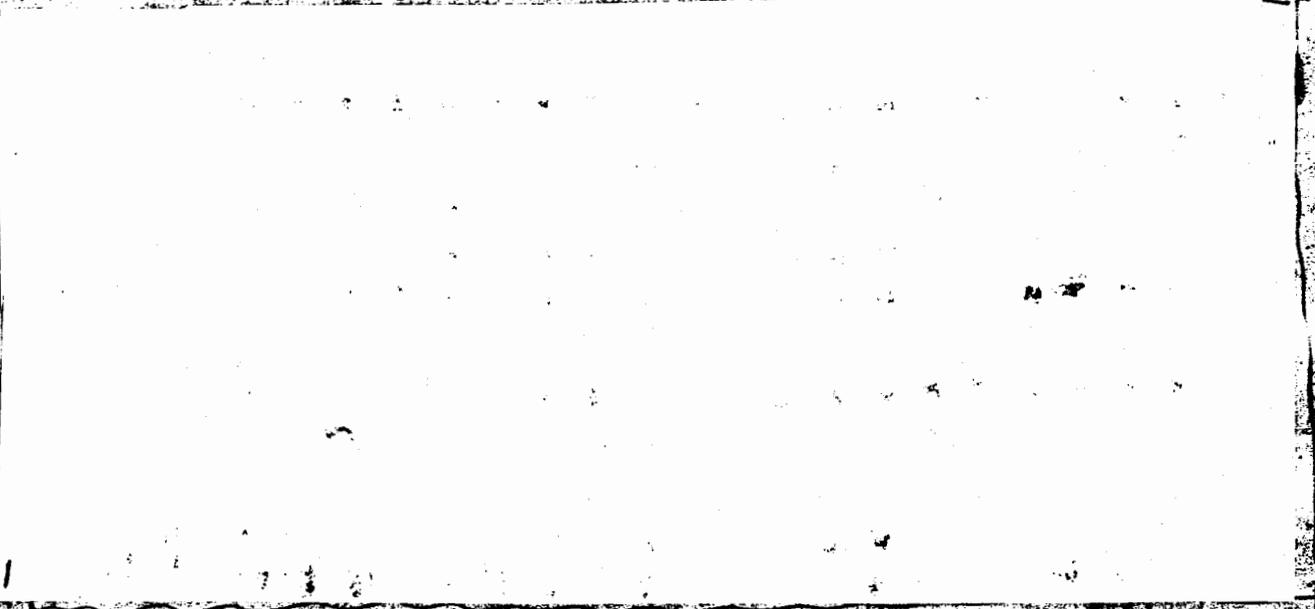
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The Committee re-affirmed its requirements concerning knowledge of relative concentrations in the DT mixture at zero time as reported in Item C of the 22nd minutes. As to the accuracy to which the total mass of the DT mixture should be known at zero time, the Committee stated that the requirement would be that this figure should be known to within 0.5%.

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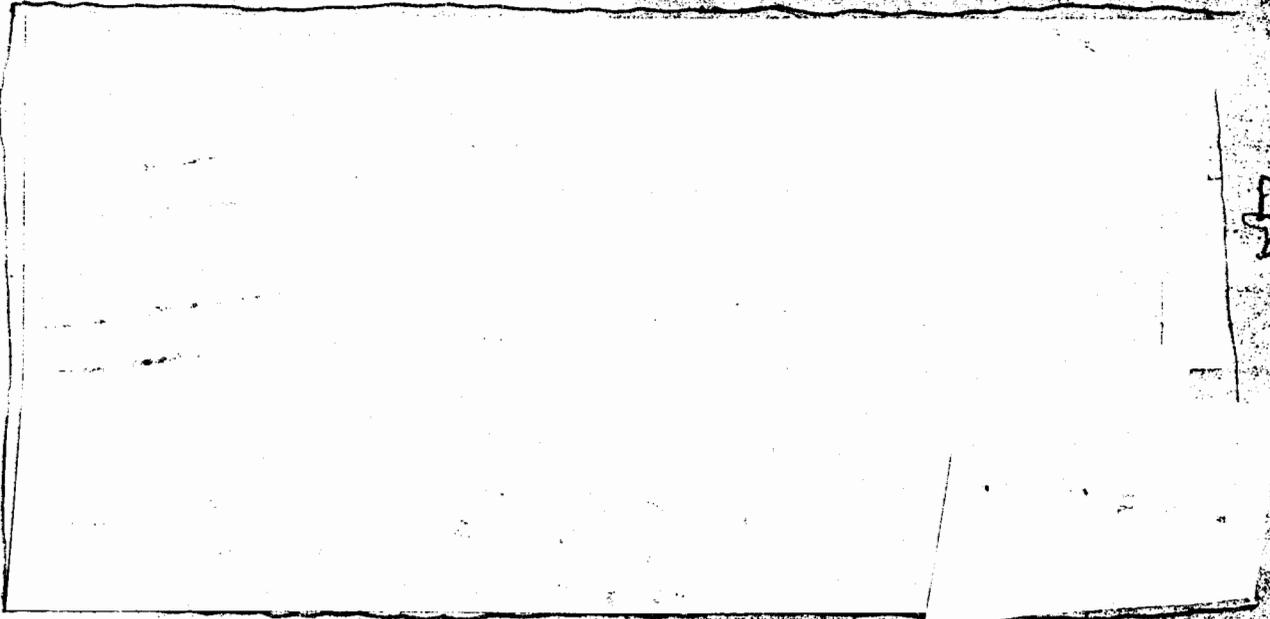


a. Provisions for Excess Radiation.



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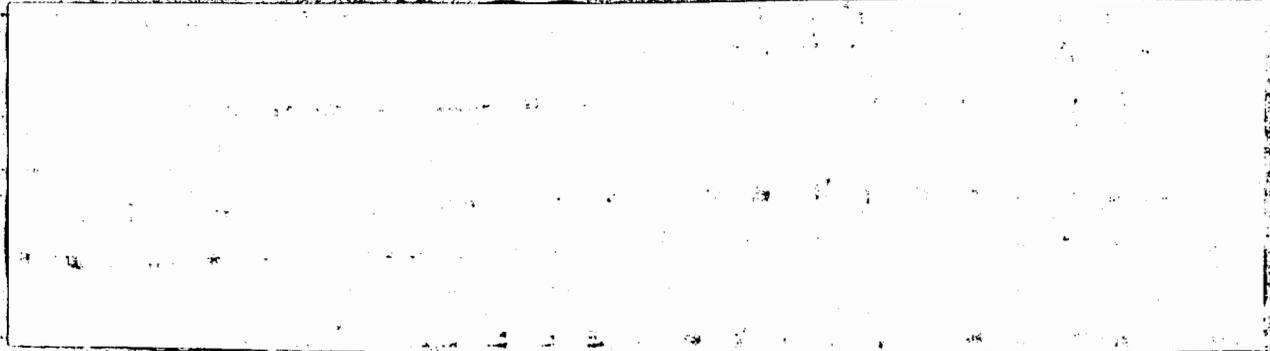
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b. Top Plate.



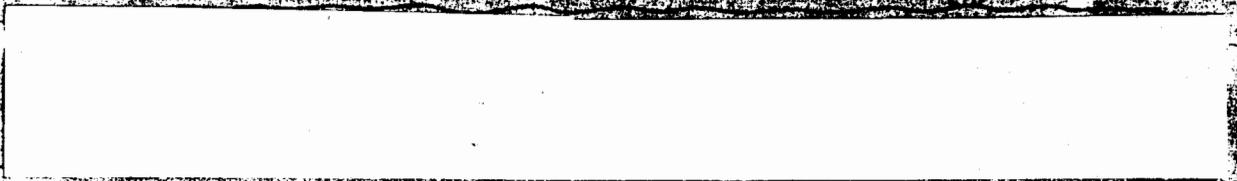
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c. Bottom Plate.



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MacDougall reported that Item G-1a of the 24th minutes will not be carried out. In fact, this decision had been reversed already at the previous meeting. Instead the following scheme has been adopted and was agreed to by the Committee.

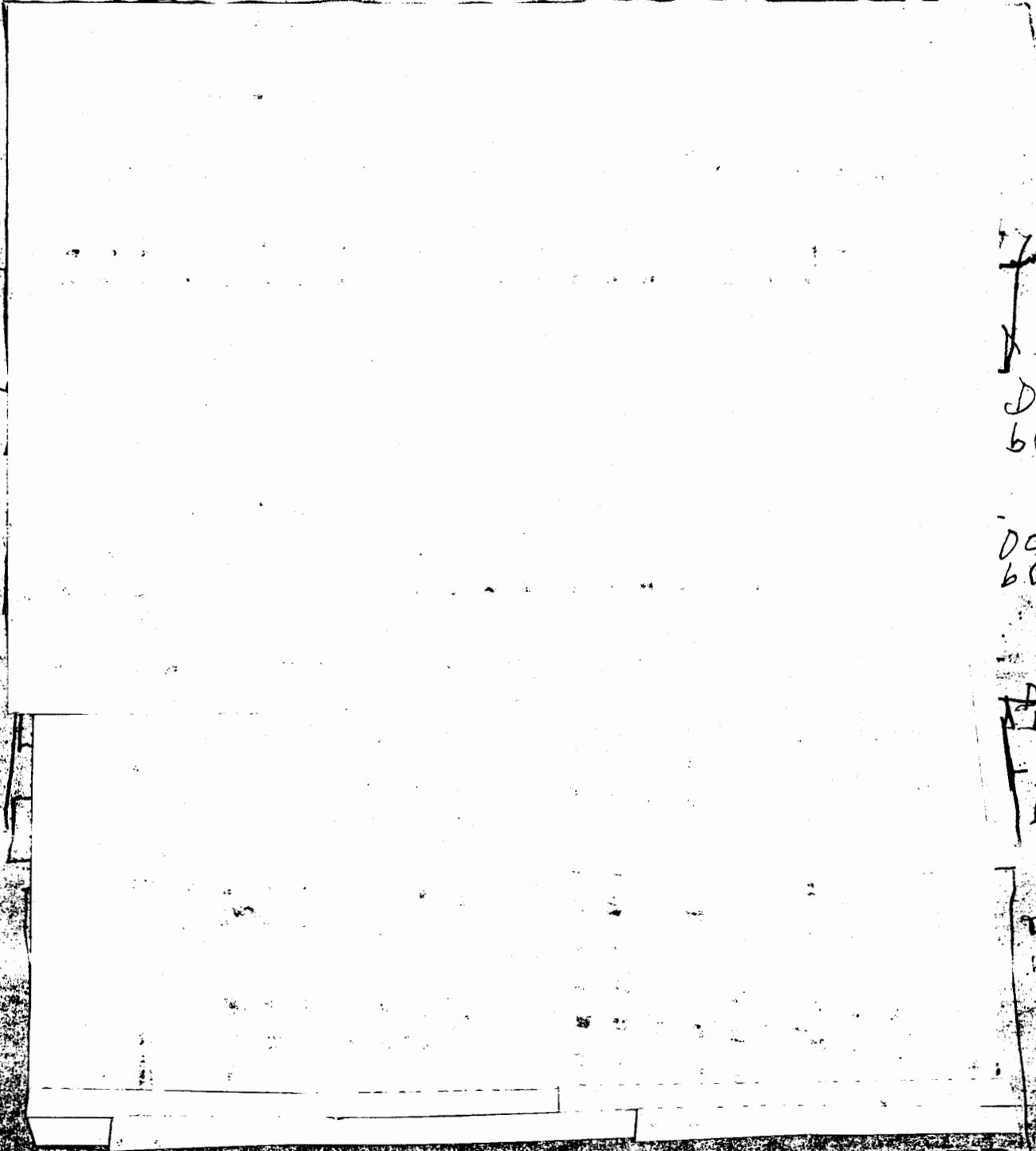


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This will mean that the vertical clearance will be no more than plus or minus 0.5 millimeters and that the horizontal displacement will be not more than plus or minus 1.0 millimeter.

4. Donut Material.



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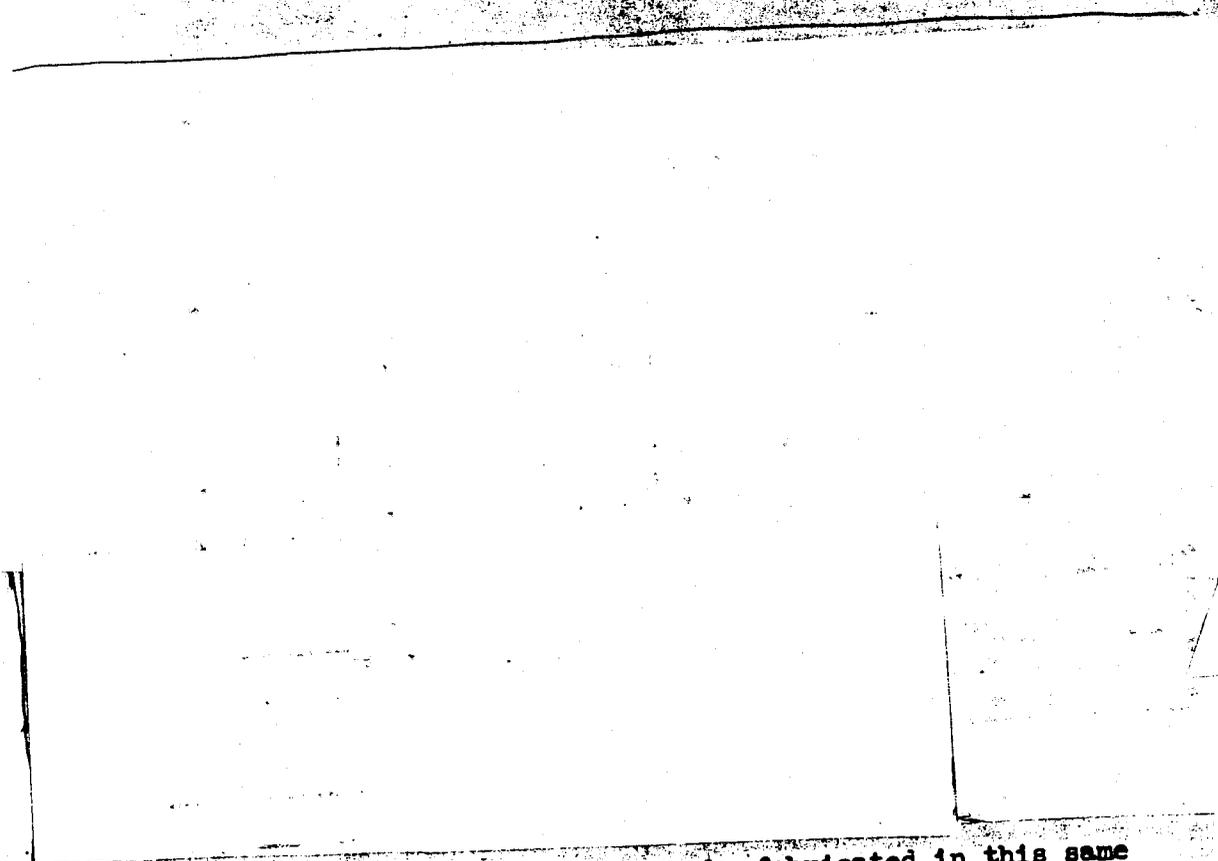
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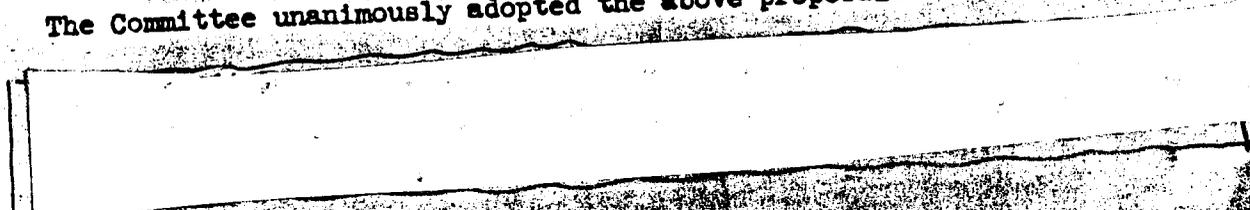


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c. Request that oralloy parts be fabricated in this same geometry.

The Committee unanimously adopted the above proposals.



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E. Next Meeting.

There will be a meeting Thursday, October 26, 1950. The main item of the agenda is to be the freezing of the booster design.

Executive Secretary

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

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MEMORANDUM

To: Distribution

From: R. W. Goranson

Subject:

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Symbol: ADWD-3-9

[Redacted]

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This figure is based on the assumptions listed below:

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R. W. Goranson

RWG:lra

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WASHINGTON, D.C. 20535

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Figure 2 A

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