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Richtmyer thought that a detailed SEAC calculation could be coded for the middle and late stages.

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4.

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These calculations were based on the work of Bethe in LA-322, assuming a square radiation wave for the hydrodynamics. The results include only the case where the radiation head moves more slowly than sound behind it.

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General qualitative conclusions which can presently be drawn are:

(a)

(b)

(c)

(d)

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(e) Expectancy of reasonable efficiencies can be deduced from indirect evidence.

Ford discussed the results which have been obtained to date.

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The results are shown graphically by the following figures:

Fig. 1 -

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Fig. 2 -

Fig. 3 -

Fig. 4 -

Fig. 5 -

Fig. 6 -

Fig. 7 -

Fig. 8 -

Fig. 9 -

Fig. 10-

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Fig. 11-

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5.

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It was agreed to use the SEAC and not try to use the SSEC at present. Peck also agreed to plan the flow diagram and discuss it with Matterhorn sometime after 23 November.

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Calculations on this effect are in progress.

6.

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7.

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Mark reviewed the present objective which has a well defined goal, namely to design for a gadget which will give a large-scale (<1 megaton) thermonuclear reaction and if this is possible to do it in time for a fall 1952 test.

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If this turns out to be the case, then either would be equally acceptable to the TM Group.

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Present considerations have been very preliminary and more detailed attention is awaiting completion of the CPC calculation now underway.

R. W. Goranson

R. W. Goranson

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KEUFFEL & ESSER CO.

[redacted]

No. 359-14. Millimeters, 5 mm lines accented, cm lines heavy.
MADE IN U.S.A.

FIG. 3

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KEUFFEL & ESSER CO.
No. 359-14. Millimeters, 5 mm lines accented, cm lines heavy.
MADE IN U.S.A.

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No. 359-14L. Millimeters, 5 mm lines accented. [redacted] KEUFFEL & ESSER CO.

FIG. 3

[redacted]
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