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6. Alarm Clock Implosion Calculations

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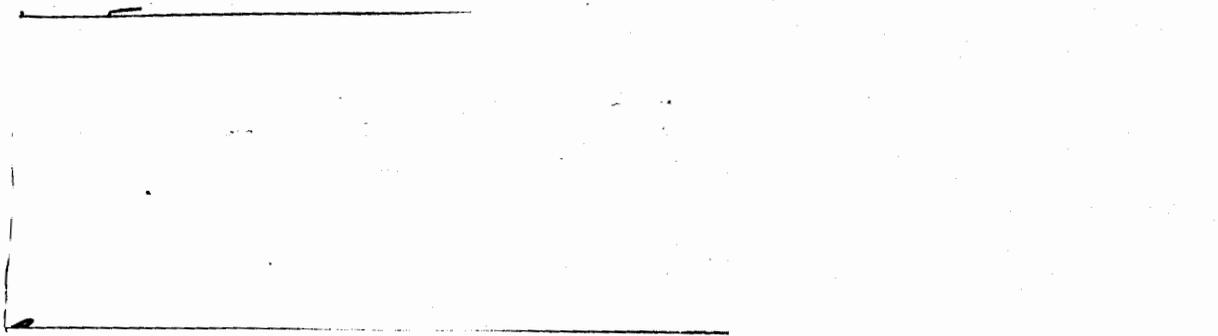
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7. Report on Alarm Clock Design

Nordheim reported on a preliminary design study of an alarm clock now being carried out by ACF. This tentative design of a deliverable bomb will come within the present Air Force limitations of

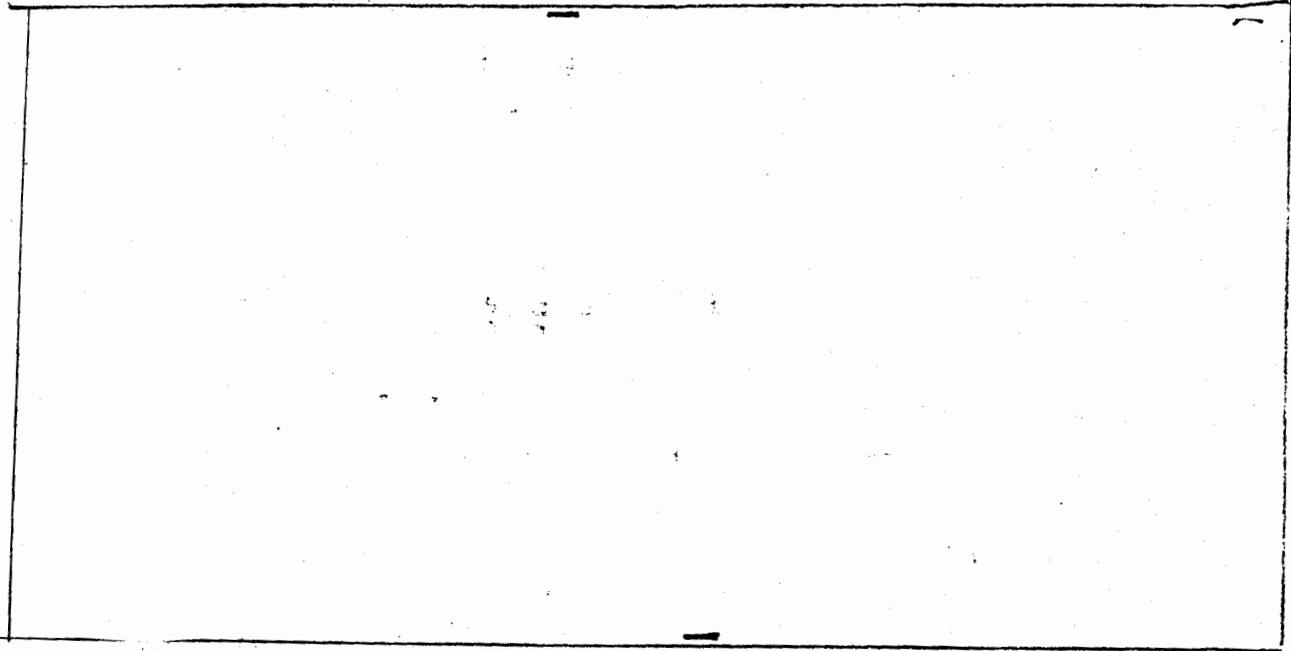
weight < 50,000 lbs.
outside diameter < 62.5"
length < 20'



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8. Calculations Required for Alarm Clock Design

The theoretical problems and calculations for final alarm clock design were outlined and discussed by Bethe.



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A problem which has been investigated by Bethe is that of growth of small amplitude waves for variable density (as behind the radiation front). Long waves are unaffected; for short waves k in the expression

$$\sqrt{gk} \cdot t$$

