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~~UNCLASSIFIED~~ 27 Dec 8 P.
26 December 1944

G. B. Kistiakowsky

R. W. Henderson

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Design of Non-Lens Gadget. Your letter of 30 November 1944.

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JA Brown 83-16 2/25/58

I agree with you on your viewpoint that to accommodate approximately 312 initiation points in the 1222 casing would be an extremely difficult job. In fact, as I see it, it is impossible. We have, however, in the design of the new 1291, which is designated as 1500, provided for the possibility of 312 points.

In any design incorporating such a large number of initiation points the most serious design problem arises in the region adjacent to and directly under the lug mounting pad. This pad, of necessity, must be very large to carry the loads imposed upon it and it therefore follows that no matter how many initiation points you have above, say 132, there are some of these points that fall within the limits of the above-mentioned pad. Although this presents a rather unfortunate condition there is no way that it can be avoided, but I do believe that through the use of judicious juggling we could locate some initiators directly under this pad.

Until further notice we plan on doing no further work on any system involving more than 132 points.

R. W. HENDERSON

RWH/evb

- cc - Bainbridge
- Baker
- Oppenheimer
- Parsons
- Galloway
- File

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FINAL DETERMINATION
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L. M. Redman
FEB 4, 1981

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