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Major J. O. Ackerman

G. B. Kistiakowsky

Selection of Charges for Trinity

It seems to me that in order to achieve the most sound selection of charges for Trinity and to give several people a chance to study the data and to comment on the choice, it would be very desirable to prepare all inspection data in tabular form, and to cover in the same table not only the three charges from which the actual selection will be made but also all the prior manufacture insofar as data are available.

For instance, a table could be prepared for each mold, giving in this table all data (i.e. weight of Baratol, weight of compacted lens, all dimensions measured, information on radiographic analysis and disposition, if the charges have already been used) which have been collected on all castings made in the mold. In this way one can readily compare the charges which are considered for Trinity use with those which have already been either sectioned and analyzed, or fired by Martin, or fired (we presume with success) by Koski or Froman. When one approaches the problem in this way, and I believe that it is the soundest approach, then one realizes, among other things, that charges for Trinity should be preferably cast in the same molds in which already a substantial number of other castings have been made rather than in untried molds about which it is not yet well known what weight of casting is to be expected.

I hope you can arrange that such tables be started (unless you have started them already, as I suspect) and be kept up-to-date. If you feel that you have no available personnel for this job, I shall be glad to try to find somebody on a temporary basis to assist you in the work. In any case, let me know of your decision.

FINAL DETERMINATION
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L. M. Redman
NOV 06, 1980

GBA:he

G. B. Kistiakowsky
VERIFIED UNCLASSIFIED
MR NOV - 6 1980

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