estimate of the effect of varying H.E. to metal mass ratio.

DOE b(3)

The machine work has not been started but it will not compete with anything else except the time of one person. The two machines needed for this problem will be run in off hours.

DO b(3

This will be completed about the end of April. The nuclear part of the calculation, which will be similar in nature to Longmire's curves, could then be in [illegible]

If one had to recalculate for another mass this would take an additional two weeks. July 1 is therefore not a promise but a date to shoot for. Teller remarked that if for any reason the date has to be postponed beyond July 1 the Committee should be advised about such postponement at the earliest possible time because this will mean a delay in fabrication dates.

Mark added that it would be possible to accelerate dates for problems of this kind by running two shifts. At present there is not enough personnel to handle two shifts except as an emergency operation. The requirements would be one Ph D mathematician and three or four computers.

In reply to a query on other possible Monte Carlo runs, Mark replied that it will be of great interest to find out if we have a technique which will turn out to be as good as expected. One could also consider the use of other IBM equipment such as Rand.

DO b(3)

Three different Ov geometries have been tried.

DOE b(3)

These three geometries are as shown in Figure 1.

DOE b(3)

No. 2 is difficult because of higher predetonation probability; No. 3 is preferable.

DOE b(3)

Further discussion disclosed that predetonation probability is not likely to be the limit on mass.

PROBABLE YIELDS OF PROPOSED TESTS

DOE b(3)

DOE b(3)

The following compromise suggestion was made:

DOE
b(3)

Final decision on this point was to be left to J-Division and they would keep the Committee informed.

DOE
b(3)

PRELIMINARY DISCUSSION OF SCHEDULE PROGRAMING

Teller proposed that, as a preliminary to discussions two and three weeks hence, some thought might now be taken on this subject.

DOE
b(3)

Some notion of what the parts are to be is needed in order to determine how well things are going to hold

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