

2.4

[Redacted]

DGE
b(3)

3.

At the present time 20 calculations have been made with mocked-up hydrodynamics and radiation.

A zoned calculation will be ready to run in a few days. A week of 8 hrs/day will be required per calculation and consequently an operational day of more than 8 hours would be desirable.

[Redacted]

DOE
b(3)

4.

4.1

[Redacted]

DOE
b(3)

Garwin outlined two proposals which have been suggested:

(a)

(b)

[Redacted]

DOE
b(3)

~~SECRET~~ UNCLASSIFIED

-3-

Teller thought this argument was too optimistic, particularly in regard to neglect of the multiplicative factors.

DE
3)

~~SECRET~~

~~SECRET~~ UNCLASSIFIED

DOE
(3)

5. Photographic Recording

In order to observe the outward expansion and rupture of the steel case GMX-9 is constructing a framing camera (~4 per usec) which is a prototype of one which is under construction for GMX Division.

Garwin proposed that the TM Group ask also for a continuously writing and self-shuttering smear camera with 0.05 μ sec or better time resolution, 20 μ sec active writing time and one-inch resolution at three miles.

The purpose of this additional camera is to observe shock arrival time at the outer surface of the casing as a function of the distance along the case and, from observations at the case surface and adjacent raised bumps, obtain in addition shock velocity and thus the pressure distribution along the length. This is described further in memos ADWD-302 and ADWD-315. A schematic arrangement for one such raised spot is reproduced in the accompanying figure.

It was decided by the TM Group that Ogle be asked to procure a smear camera having the above specifications for the purpose of obtaining the kind of information just discussed.

R.W. Goranson
R. W. Goranson

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