The "case test" end will be lengthened to 2.75 meters and will accommodate the following experimental devices:

a. Radiation arrival time spots (essentially open holes) near the bomb end and at the far end.

b. Four shock transmission spots. [redacted] DOE b(3)

c. Opacity measurement cell. This is a portion of the cylinder which will be designed and manufactured by Los Alamos and can be inserted as part of the ACF case. It will contain a device for measuring the time history of radiation flow through a material of known opacity. This is expected to give a measure of the temperature inside the case. [redacted] DOE b(3)

d. Four radiation flow pipes. These will be mounted in a vertical plane and radiation flow along them can be looked at by framing cameras only. [redacted] DOE b(3)

e. Two "Felt Boxes" for photographic observation of case motion in air, vacuum and helium. The intention is to determine by comparison whether photographic observation in air is adequate. They will be cells completely surrounding the cylinder.

3. Radiation Flow Calculations

[redacted] DOE b(3)

DDE
1 (3)

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