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April 13, 1949

To: All Concerned

From: K. T. Bainbridge

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Per Memo dated 6/29/77  
See Record 12976

I. Agenda for Meeting of April 10 - 10:00 A.M., J. H. Manley's office.

Discussion of proposed gamma ray pinhole cameras for TR as described in J. E. Mack's memorandum of April 7, in which four types are described:

1. Proposed by Frisch
2. Proposed by Deutsch
3. Proposed by Mack
4. Will not be considered at this time.

Write-ups should be distributed by noon Saturday, April 14.

FINAL DETERMINATION  
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L. M. Redman  
OCT 24, 1980  
OK [Signature]

II. Notes on Meeting of April 9 - 11:00 A.M., J. H. Manley's office.

1. Weisskopf discussed his calculations on cable insulation conductivity to be expected at 600 meters from 0 and arrived at a figure of  $10^{-4}$  ohm $^{-1}$  cm $^{-1}$  considering the dielectric as equivalent to air condensed to a density of 1. The high conductivity exists as a short duration pulse and in the first .01 second it should decrease to  $10^{-9}$  ohm $^{-1}$  cm $^{-1}$ . The further assumption had been made that the recombination time in uncompressed air was  $10^{-7}$  seconds. Segre agreed to make tests of W-110B wire and RG54/AU polyethylene coaxial cable if he is supplied with 10 ft. lengths of this material. The cables might be coiled in a helix of 3 cm radius and a RaLa type source dropped along the axis.

2. Fermi discussed the possible incendiary action of the gadget light flash which might be serious up to a radius of 1 or 2 kilometers.

3. It was announced that the Wednesday afternoon seminar would consider the formation of ozone and oxides of nitrogen and their possible effect on the health of personnel.

4. It was suggested that gamma ray counters should be used in the 100 T test to measure the absorption effects of the debris. Counters of the automatic recording type will be at 160 meters and the equipment is available for this use. Responsibility of J. H. Williams.

5. It was agreed that the measurements proposed in J. E. Mack's April 9 memorandum should be included in the Trinity test with the following changes:

a. Following the suggestion of Fermi, it was agreed that two black body radiation receivers to give the total integrated radiant energy received should be provided, one at each of two 10,000 yd. stations, preferably W 10,000 and N 10,000. An intensity versus time record is not desirable for black body receivers, and J. E. Mack will discuss with Mr. Nicholson the specifications of the integrated energy long time constant receivers.

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This measurement shall have higher priority than the photocell and drum camera measurements.

b. The photocell and drum camera intensity versus time records should be limited to two wavelength bands, each band feeding three channels to provide for undistorted recording over a wide range, i.e., greater than 1000/1.

The belt driven drum camera should be slowed down to approximately 1 r.p.s. operation.

KTB/baa

K. T. BAINBRIDGE

J.R. Oppenheimer  
R.C. Tolman  
H.L. Anderson  
E. Fermi  
L.H. Hempelmann  
J. Hubberd  
J.E. Mack  
J.H. Manley  
W.G. Penney  
E. Segre  
B. Waldman  
J.H. Williams  
V. Weisskopf  
R.R. Wilson  
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