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General A. R. Luedcke, USAF - 2 -

of the bomb until substantially all of the fallout has returned to earth. The immediate objective will be to exploit the available information from TEDWING. Combining the knowledge of fission energy released with the data on local fallout at TEDWING it may be possible to estimate the amount of radioactive debris in the stratosphere and hence the amount of world-wide fallout to be anticipated. The next objective will be to apply TEDWING and CASTLE data, plus the existing model, to the planning for the next test series with two purposes in mind: First, to refine the model still more; and second, to apply it directly to the practical problem of minimizing world-wide fallout.

The AEC Commissioners are desirous of another fallout briefing when the above data and related information on TEDWING fallout has been further developed to make such a briefing worthwhile.

Will you please advise how much of the above information can be obtained and a tentative date that it could be presented to the Commission; also, what are the possibilities of a more comprehensive fallout study for Operation PILGRIM to further develop the theory or a model as referred to above?

A fallout symposium, sponsored by the Commission, is contemplated shortly after the first of the calendar year to discuss all the important aspects of the problem. It is desired that information developed as a result of these additional studies be exchanged between the interested parties. It is requested that you designate a member of your staff to work with our staff to prepare information and to make a presentation at the symposium if you so desire.

You and any of your staff you may wish to designate will be invited to the symposium.

Sincerely yours,

Alfred D. Starbird  
Brigadier General, USA  
Director of Military Application

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