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Marion W. Royer, Concrel Manager

Chields Tarrea, M.L., Circutor Division of Hology and Hedicine PROJECT CARLEY.

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At the request of the General Manager early in 1949, Project Cabriel was undertaken to determine the long-range effects which the explosion of a number of atomic bombs night have on animal and vegetable life through radioactive contamination of air, water and soil. Dr. Nicholas M. Smith, Jr., a theoretical physicist at ORML, was given the assignment at my request. After consultation with a number of physicists and biologists in 40C laboratories, Dr. Smith presented a report in Governor, 1917, in which he developed the thesis that the major hazard would lie in the wide-wread dissemination of the 25-year strontium-90 complex. He calculated that at least 1,000 mominal bombs could be detonated without undue hazard from secondary effects.

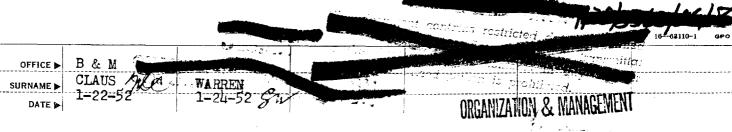
In the light of additional data from the Greenhouse and Ranger tests, Project Cabriel was given further study by Fr. Smith, and a revised report was substitted in Movember, 1351. This study indicated that a hundred thousand nominal humbs might be detonated without undue hazard from secondary effects.

An ad hoc committee, consisting of recognized experts in the fields of operations research, meteorology, soil technology, biology and physics, was assembled by the Division of Biology and Medicine on Movember 29-30, 1951, to consider the Cabriel Report on long-range effects, and to extend its implications as to short-range effects (surface and sub-surface bursts, and under conditions of rain or snow). A short resume of this neeting was furnished to Dr. H. D. Smyth on December 3.

Pollowing this meating, a more detailed staff study was undertaken by the Mivision of Biology and Madicine to consider the subject matter of the ad hoc cosmittee. A copy of this study was furnished to Dr. Dayth on December 17. While this study was under way, but before it had adequately taken shape, Dr. Claus and I presented a version of it to the Comeral Advisory Committee on December 12. The CAC recommended that the subject matter of Project Cabriel should be reconsidered, entirely independently of all work to date, by two different operations-analysis groups. -

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Marion W. Boyer, Seneral Manager

We have given thought to this recommendation, and suggest' flate the study might be undertaken by

> The Rand Corporation 1500 4th Street Canta Konica, California

Local Offices

Cafrita Building 1625 Bye Street M. Washington 6. D. C.

The Rand Corporation does operational studies primarily for the Air Force, but would probably undertake a study such as this.

A second study could probably be carried out through arrangements with the Massechusetts Institute of Technology which has assembled ad line panels for studies such as the Lexington Project and Project Charles.

Heither of these groups has yet been epproached by us to determine their availability for such a study.

Netcorological information which is being compiled for us by the Air Weather Service could be furnished to either or both study groups.

MDClausine

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