



THE SECRETARY OF DEFENSE

Department of Defense

11-1-60

Dr. Richard M. Garwin
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P. O. Box 118
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Dear Dick:

This is in reply to your recent letter regarding the SUM concept and the Van Dorn Effect.

It has never been our intention to dismiss the current version of the SUM concept because of the vulnerability to the Van Dorn Effect. (Earlier proposals did describe systems that would be vulnerable, and there are still statements in the press on shallow water deployment designs called "SUM" which, if built and put to sea, would be vulnerable to the Van Dorn Effect.)

I believe we are in agreement on the relevance of the Van Dorn Effect to your current SUM concept. As we have already discussed, however, factors other than Van Dorn Effect vulnerability lead me to dismiss SUM as a valid alternative to MX.

I am looking forward to the results of the current JASON summer study, which is investigating the utility of small submarines in future strategic and tactical roles.

Sincerely,

Harold

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