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John D. Wright

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DATE 1/1/00 BY 1043

408884

Subject: *RESEARCH DIVISION*

CLASSIFICATION CHANGED BY AUTHORITY OF 1043

Carl Wilson 3/2/84
REVIEWED BY

DATE: 1957

H.W. Schmidt 7/5/84

By: W. Trenchard 3/2/84

[Redacted]

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Office	MA:Starbird/vc	MA:Storoff	MA:Gled	MAE:Trumbull	Conf. Cont.	CC
DATE	9-17-57	9-17-57	9- -57	9- -57		

- e. The firing of prototypes for the HDM-DEM warhead and of warheads of the so-called "lay-down" bomb design. These latter are ruggedized, delayed firing weapons which are important to allow attack aircraft to make low-level delivery and to escape without being destroyed.
- d. The test of several small warheads of limited yield for use with various DoD surface-to-air, surface-to-surface, and air-to-surface missile systems.
- e. A limited number of DoD weapons effects tests. The high altitude firings already mentioned are, in part, effects shots. In addition, underwater detonations are contemplated for the examination of the tactical use of our weapons by naval forces and our vulnerability against enemy nuclear attack.
- f. Exploratory firings to examine new and promising designs directed toward more advanced DoD systems, particularly in the air-defense and counter-missile field.

The firings will be held as low in fission yield as possible consistent with the securing of the required information. In this connection it is presently planned that all higher yield surface detonations will be of the reduced fallout design which was proven to be possible in the HEDVING series. For the high altitude shots, however, the weight and dimensional limitations of the carriers will require warheads of standard design. A detailed program of fallout examination is contemplated with improved means now available for sampling at very high altitude. It is believed that our knowledge in this regard can be increased substantially by the series.

As I mentioned earlier, the information that can be given at the present time is only a slight elaboration on that contained in the latest Quarterly Report. As our plans are further developed, I shall keep the Committee informed.

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Sincerely yours,

General Manager

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