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December 23, 1957

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MEMORANDUM FOR SECRETARY McELROY
SECRETARY QUARLES

SUBJECT: United States IGY Satellite Program



At My request a panel of consultants has been looking into the US IGY Satellite program for the past several weeks. The panel members are Dr. Kistlikowsky, Dr. Piore, and Dr. York (Chairman). The panel jointly concluded as follows:

"1. Vanguard prognosis. The presently planned Vanguard program, consisting of four more test vehicle firings followed by six satellite vehicle launching attempts has only a 50-50 chance of ultimate success. In the event of success, several successful launchings are as likely as only one.

"2. Jupiter-C prognosis. Each individual attempt to launch a satellite by the Jupiter-C group (ABMA and JPL) has a 50-50 chance of success. They presently plan two attempts with a third unit being readied as a back up. The first attempt is planned for late January, the second for early March, and the third not until June because of Hardtack commitments. In this connection we understand that the authorization for going ahead with plans for this third back up rocket have not yet been given. If so, we strongly urge that such authorization be given as quickly as possible.

"3. Recommendation re expansion of Jupiter-C program. The ABMA/JPL group also proposes to launch three more satellites weighing from 85 to 130 pounds in the latter half of 1958 using Jupiters instead of modified Redstones as boosters, but using identical second, third and fourth stages. Although the Jupiter is a less well proven booster than the Redstone, we believe it would nevertheless be preferable, since it will be available and can orbit much larger payloads, and the satellite firings will in turn contribute to the Jupiter

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APPROVED BY: [Signature] DATE: 1/2/58

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