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544 2000 589 30005 PRIVINCENT #

MENOMARDUM FOR: A. C. Graves

5 Jenuary 1951

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Tal Flank

411382

SUBJECT:

EFFECTS OF LANDING ROCKETS ON GENTERS OF ENGESI AND AGNOR ISLANDS

REFERENCE:

SD- 4934

- 1. Tests of the modified HVAR Rocket (18,500 ft altitude) as a aleud sampling device requires that these rockets land on the conters of Engeli and Acada Islands. Data on the characteristics of these rockets and the firing schedule for them are given in Appendix I.
- 2. Considerations based on probabilities defined in Appendix II and calculated from the data given in Appendix IIIA and IIIB lead to the ecnelusion that no experiment on either Engels or Asson has a very high probability of being rendered completely worthless. While several of the structures (the SOO series stations) have a fairly high total cross-section, the probability that these structures would suffer multiple hits and be completely destroyed or that all of the numerous instruments contained within them would be so destroyed by one hit is low.
- 3. On the other hand, the probability of one hit on any of the recording stations (6a,b; 25a,b; 25; 55; 132a,b) is ~ 2x10⁻⁵ on Engebi and < 7x10⁻⁴ on Accon. The probability of multiple hits on one of these stations or of single hits on several of them is, of course, much lower. Assuming that the complete less of one of these building cannot be tolerated and that a single hit would lead to such a loss, Fred Feines feels that these probabilities are a little too high for confert.
- 4. If it were possible to have Holmes end Marver make the roofs of these buildings "rocket-proof", the sampling rockets could be landed on Engebi and Acmon with little risk.
- 5. Since you informed me last week that M.F could not do this, it is proposed that:
 - (a) Sampling reskets not be fired on Engebi unless Inyekern can provide a parachute-type with a low penetration.
 - (b) Sampling rockets be fired from Acmon to Rajeru Island (because of shock wave drones and flight times this is possible only if maximum altitude is less than 10,100 feet).

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Mome for A.C. Graves from Hal Flami, would be to of Landing Rockets on Centers of Engels and Assocs Islands, dated 5 Jan 51

6. Inyokern representatives will be here January 4 and 5 to discuss proposals 5(a) and 5(b).

Hal Plank

EPimps

ec: F. Reines (J-7 File)

H. Smith

R. Spence

H. Plank

JDO Sequence

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