-Approved for Release: 2024/06/08 C05025804

SECRET

C05025804

76 K

6 June 1960 9 July Subj: Satellite Planning for FY 61 1. The Solar Radiation Satellite is now ready for launch with Transit 2A. Two flight units are complete and components are being completed for the third flight unit. If the 2A shot fails, the third flight unit will be completed so that two flight models will be available for the Transit 2B launch in November. The costs for this back-up shot are as follows:

Laboratory tests (recheck 2 flight units)	20 K
Field tests	56 15
Travel	20 K
Code 5430 Travel and Miscellaneous	-20-K-

Total

This is based on flying packages without modifications. If any changes are required in either the data link or the cover, additional funds will be requested. If the Transit 2A shot is successful, the next shot would include an L Band experiment and a modified Solar Radiation experiment using two X-Ray detectors on slightly different wavelengths. The compatability of these two experiments is good and the X-Ray data is quite valuable and no change in cover should be considered for this shot. The cost estimates for this are as follows:

> Cost for Solar Radiation Experiment for one launch 100 K 150 This covers development of additional equip-

ment, salaries, travel, etc. for Code 7120 Cost for three additional flight models of the satellite .

This includes transmitters, receivers, power structures, environmental testing, salaries and/travel-

Costs for Gode The ECM experiment Included are costs for four men for six months (L Band) experiment and ground readout instrumentation.

110 к)

450 K 620

osts of satellite for December Saunch HYENDIG

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SECRET The present Transit schedule includes launches in November, December 1960 3. and February 1961. It is assumed that two out of three of these launches will be suitable to the requirements of the Solar Radiation Satellite. The extended , program should include plans for a more sophisticated intercept experiment. Detaile and r. f. frequency-with special he bictive. This will necession fittened requirements with require Measurements are-needed-of-PRF, additional space for electronics in the satellite and a larger share of the solar power will have to be allocated to the prime experiment and less to the cover. Therefore, it would be desirable to change the cover to a Biological experiment with a stable Oscillator for Navigation studies. These can be lower power systems and a telemetry system for the Biological experiment could easily be switched to and r. f. frequency data after the one week life of . the biological sample. The costs for this work are estimated as follows: 590r Development Costs Cost of cover = 215K University of Maryland 100*/*K 70 Sensors Cost includes Data Link Shell Costs for three Satellite. Solar Power Supply Télemétry Sys Thermal Design Environmental Tests 760 K Field Operations 640 K Total Cost FY 61 for Code 5170/ Code 5430 Budget Estimate for FY 61 Developmental Costs for four .mén fór six months Major Procurements 150 /Intercept/Station Instruméntation 120 K Total Cost FY 61 for Code 5430 Total Cost of Satellite for Frebruary launch HANDLE VIA BYENAN TAN C CONTROL SYSTEM الغاذقار