Budget Estimates for Back-Up Shot on Solar Radiation Satellite
(expected date November 1960)

Lab tests (recheck 2 flight units)	20 K
Field tests	16 K
Travel	20 K
Code 5430 Travel and Miscellaneous	20 K
Total	76 K

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.

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June 3, 1960

Satellite Planning for FY 61

~~1. The Solar Radiation Satellite prepared for launch with Transit 2A contains an interesting feature on the X Ray detection system.~~

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~~ 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:

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2. If the 2A shot is successful the next shot would include an L Band ~~data link~~ experiment and a modified Solar Radiation experiment ~~and~~ using two X Ray detectors on slightly different wavelengths. The compatability of these two experiments is good and the XRay data is ~~still~~ quite valuable and no change in cover should be considered for this shot. The cost estimates for this are as follows:

~~(a)~~

~~3.~~ (a) Cost for Solar Radiation Experiment for one launch $100 K

This covers development of additional equipment, salaries, travel, etc. for Code 7120.

(b) Cost for ~~two~~ three additional flight models of the satellite $450 K

This includes transmitters, receivers, power supplies, telemetry systems, shells and structures, environmental testing, salaries and travel. ~~This does not include the equipment usually supplied by Code 5430.~~

(c) Costs for Code 5430 included are costs for (4) men for 18 months, [illegible] (L-Band) experiment and ground readout instrumentation. 110K

~~Martin J. Votaw~~
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~~Code 5170~~

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3. The present Transit schedule includes launches in [redacted], November, December 1960 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 ~~third~~ final extended program should include plans for a more sophisticated intercept experiment. [redacted] Measurements are needed of p.r.f., [redacted] and r.f. frequency with special attention [redacted] on specific targets. These additional requirements will require additional space for electronics in the satellites 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 desireable 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 could easily be switched to [redacted] and r.f. frequency data after the one week life of the bio sample. [redacted] costs for this work are estimated as follows:

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