



2 October 1964

MEMORANDUM FOR: Chief, Special Projects Staff

SUBJECT: Weekly Status Report No. 2 on Project FULCRUM

1. Camera System

a. ITEK - Messrs. Maxey, Dirks, McMahon, and [redacted] attended a meeting at ITEK today to discuss the optical design configurations to be selected for future work. Tropel designers had presented the results of their work to ITEK earlier in the week. Mr. Madden was asked to look into the long lead time for procurement and processing of the optical elements for the test and operational launchings. S/I camera still being investigated - - the currently used indexing camera has a 70° side-to-side coverage angle and the ICS terrain camera has a 74° side-to-side angle. The rejected ITEK Super Avilogon lens design has a 107° side-to-side angle, but this still doesn't match the maximum 120° panoramic camera coverage. Mr. Dirks is investigating the stereo convergence angle question and expects to have an answer by 15 October. Discussions with Mr. Dirks and Mr. McMahon on the corona discharge problem have led toward considering a Corona contract with Ion Physics Corporation on a broader scale with a relatively small amount of FULCRUM money being added for the high speed film transport aspects. Mr. Crowley and [redacted] are scheduled to attend a meeting at ITEK on 9 October on the technical aspects of each task.

b. P. E. - Decision was ^{to launch} made at the 28 September meeting with P. E. to have them undertake a camera configuration alternate design to be completed by 1 February 1965. ^{11/1964} \$200,000 has been released toward a fixed price renegotiable downward contract. P. E. proposed a total cost of \$605,345 for the study effort plus facilities, but has probably underestimated because they are balking

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at the FPRD-type contract. One of the proposed optical designs ^{to have been} was selected during the meeting at P. E. today, *but was postponed until 19 October.*

c. STL - The revised work statement and cost estimate reflecting the intermittent film transport redirection have not been received as yet.

2. Spacecraft

Both the spacecraft and recovery system aspects of Project FULCRUM were placed in some confusion by the McMillan letter. Mr. McCone brought this matter up before the PFIAB on 1 October. The response date to the 6-weeks funded studies remains 22 October.

3. Recovery Systems

Messrs. Little, Mitnick, and Rawls of GE's Reentry Systems Department brought in some costing and technical questions which were discussed with Messrs. Maxey, McDonald, Dirks, Crowley, and [redacted]. Written responses are under preparation and will be included with the answers to AVCO's questions of last week.

4. Systems Engineering

\$200,000 has been released towards the S. E. contract. Proposed cost of \$410,893 is to be negotiated to \$400,000 or under. STL Project Manager has not been selected as yet. Launch complex and booster specs are due 16 November 1964. The STL work statement has been submitted and is being reviewed by Mr. Dirks.

5. Interface Aspects - P. E. is being provided with general mission specs.

[redacted]

Distribution:

- Cy 1 - Orig. - Addressee
- Cy 2 - Crowley 2
- Cy 3 - [redacted] (File)
- Cy 4 - Routing (McMahon, Dirks, Scott)
- Cy 5 - SPS Chrono
- Cy 6 - DDS&T Registry
- Cy 7 - DDS&T Registry

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