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19 February 1965

MEMORANDUM FOR: Chief, Special Projects Staff  
SUBJECT: Weekly Status Report No. 22 on Project FULCRUM

1. Camera System

A. ITEK Messrs. <sup>Wolfe</sup> Madden, <sup>Batchelder</sup> Morser, and Watson arrived at Headquarters on 17 February to present rough briefing charts to be worked over for the <sup>Evaluation</sup> Feasibility Panel briefing on 23 February. The visit turned out to be a lengthy one in view of a number of inconsistencies and discrepancies in their figures. A draft of the Camera System Test Plan was submitted, and a copy was given to the SEAC contractor.

B. P. E. Work continues on the five February tasks.

C. STL [redacted] discussed with Mr. Reeves during his visit to Headquarters on 17 February the status of the February follow-on film transport tasks. Progress appeared to be satisfactory.

D. RCA A proposed work statement involving a four-month breadboard feasibility demonstration of the sheet film approach concept was submitted by RCA. Funding at a \$240,188 level was proposed. Cost and feasibility approach were not in keeping with Project Office's concepts, and a revised work statement will be prepared.

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2. Spacecraft

Messrs. ~~Katzen~~<sup>Manley, Stamm;</sup>, Hood, and Petty presented their proposed briefing charts for the Evaluation Panel briefing at Headquarters on 17 February. Messrs. Hood, Emmer, East, and a GE computer expert met with Dirks and [ ] at Dirks' apartment on the night of 15 February to discuss A/C propulsion status.

3. Recovery System

Dr. Berninger and Mr. Cahow visited Headquarters on 16 February and presented their proposed briefing material for the Evaluation Panel briefing.

4. Systems Engineering

Messrs. Besserer, Boswell, and Quick arrived at Headquarters on 16 February for a visit of several days to discuss facility requirements and test concepts with Mr. Crowley and [ ]. Mr. Bryant of G. E. discussed with Mr. Quick at Headquarters on 18 February past General Electric experience in testing, assembly, and checkout. As a result of these discussions, it was concluded that each of the three prime contractors would supply a thermal model, an electrical model, and a structural model to the SEAC contractor, in addition to their qualification system. It was recognized that these three models had not been costed in any of the Phase II cost proposals.

Messrs. Besserer<sup>Reese</sup> and Grady presented on 16 February their proposed briefing charts for the Feasibility Panel briefing.

Dr. Chalmers met with Mr. [ ] of the Project Office and Mr. Reese of G. E. at Headquarters on 19 February to discuss STL's programmer and submitted a technical proposal for the programmer at the same time. STL's programmer is defined as a command decoder and a programmer memory unit. G. E. defines their programmer to include, in addition to the two units mentioned

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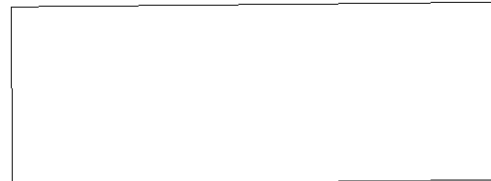
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above, a pulse position demodulator unit and a command distribution unit. Dr. Chalmers indicated STL would be willing to produce their digital programmer under a subcontract to G.E. Proposed cost, including fixed fee, varied from \$935,411 for five units to \$1,774,464 for twenty units.

**5. Interface Aspects**

A thermal interface meeting was held at Headquarters on 16 February to consider both ascent heating and orbital heating interface aspects. Attending were: Messrs. Harney, Gibson, and Rubinson from Itek; Berninger, Cahow, and Grundits of Avco; Petty of G.E.; and Frank, Grady, Quick, and Vehrenkamp of SEAC. Many of the conclusions reached at this meeting were reflected in the spacecraft and payload thermal briefings for the Evaluation Panel.



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