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24 March 1967

MEMORANDUM TO HEADQUARTERS

TO: [redacted]

INFO: [redacted]

FROM: [redacted]

SUBJECT: WEEKLY ACTIVITY REPORT

REFERENCE: [redacted]

1. The reference TWX reported the planned travel of the Resident Office Staff for the period 27 March thru 7 April 1967. This memorandum will focus attention on the activity of the staff during the period 20 thru 24 March 1967.

2. Activity for the week of 20 March 1967.

Monday - 20 March

A Staff Meeting was held. The major items covered were:

- A. The [redacted] ballast situation. The [redacted] crew installed the ballast on USE 803 here over the week-end, riveting the ballast to the capsule. Weight and balance on this bucket should commence in a few days. The [redacted] weight and balance expert arrived to coordinate with AP in conducting the weight and balance.
- B. The high efficiency amplifier. The problem of cross talk between the high efficiency amplifiers of the two instruments has not yet been solved. [redacted] has installed the amplifiers in CR-2 at the ETL are the Boston manufactured types. They will be sent to AP, after successfully passing systems tests, for installation in CR-1. Meanwhile, two additional systems of Boston manufacture will be sent to AP about 29 March for installation in QR-2. This, of course, is in advance of checking out the amplifiers in the system. At this time, it appears that the high efficiency amplifiers will be ready for CR-1 when required.
- C. The QR-2 status was reviewed along with the DISIC status.

[redacted] attended an R-7 Meeting at Sunnyvale.

[redacted] OSA accounting supervisor, audited the personal travel accounts of the Resident Office Staff.

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Tuesday - 21 March

The Design Review of the Payload and Vehicle was held. This was primarily a review by the Air Force Systems Integration group to review compatibility of the Agena to the payload. The major item still to be resolved concerns the power requirements for Agena and the payload. The vehicle is specified to handle 22.5 volts with no guarantee that it could operate in the range from 22.5 to 21.5 volts. The payload has been designed to operate with 21.5 volts at the interface. At this time, it appears that the USAF will modify some of the vehicle lines to higher gauge wire in order to reduce voltage drop and will provide a by-pass for a vehicle diode which consumes about 9/10 of a volt. With these two changes incorporated and the availability of a high efficiency amplifier, it is believed that the power will be adequate and compatible for proper operation of both Agena and payload.

A meeting was set up among AP and [redacted] personnel to review the diode limiter for each instrument to insure that maximum voltage would not be applied to the instruments, thereby causing them to exceed their maximum speed capability. A 4.08 volt limiting diode was agreed upon.

Wednesday - 22 March

Program Managers Meeting was held. A separate report will be promulgated on this meeting.

Thursday - 23 March

The amendment to the J-40 to 50 contract was negotiated. This amendment was caused by the 6 month extension of the flight schedule. Main cause of the additional fund requirements of AP were:

1. Provision of a maintenance engineering base and test base for the 6 months extension period.
2. The work that is required to make changes in stored payloads to incorporate LOL/LCL items. For example, there are two systems' worth of forebodies that have to be changed because of the age limits on these shields.

AP proposed a cost to the Government of about [redacted]. The amendment was negotiated for about [redacted] with elimination of two additional systems worth of forebody changes that may be required. If these are in fact required, an AWA will be approved. AP also agreed that they would submit no AWA's for any specific items for less than [redacted] nor would they credit the contract for contracted work not required that would be less than [redacted].

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The afternoon was spent in discussing the [redacted] financial situation and their budget call. [redacted] Madden, [redacted] and [redacted] attended this meeting.

In a separate meeting [redacted] and [redacted] met with [redacted] management to receive an outline of how the J-1 Program would be consolidated into the J-3 operation. The essence of the arrangements is as follows:

1. A support group of 9 people would be required for the J-1 Program. These personnel include: 1 electrical engineer, 1 drafting, 1 mechanical engineer, 1 model control, 2 technicians, 1 design engineer, 1 quality control man, and 1 secretary.
2. This group will be physically segregated in a portion of the J-3 building at Burlington.
3. Costs would be isolated and reported separately.
4. One of the engineers would be designated as supervisor and report to Madden thru [redacted]
5. Itek, [redacted] would clear the Newton facilities by 1 July 67.
6. The J-1 support effort will have to commence approximately the 15th of May to provide continuous support of that Program. The previous negotiations took into consideration that there would be a taper of J-1 personnel with complete termination by the 1st of June, hence, the J-3 Program will have to bear the costs for approximately one and a half months of J-1 support personnel. It is estimated that this will cost approximately [redacted] in FY 1967.

Another item discussed with [redacted] and Madden was a change in mode of PG calibration for the J-3 which should result in considerable cost savings. After much in-house discussion at [redacted] between the DAC group and [redacted] group, it has been proposed that data be gathered for calibration on 3404 film in a lifted position and then by using an encoder on the scan shaft, the angular reference could be made relative to the rail holes. This would not require a grid and it would eliminate any requirement for an ultra-thick base material. Cost advantages are primarily in the data reduction area. There will probably be no change costwise as far as data collection.

It is planned to run the trial of this new method on CR-4 and compare this to the current method to determine comparability. All indications are that, if comparability is shown, the new system will be used for calibration of all J-3 systems after CR-4. It will be necessary to explain the new calibration method to the using community. Current planning is to have a meeting in approximately September of 1967 to acquaint the using community with the new calibration method if proved successful.

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Friday - 24 March

The Resident Office conducted normal administration.

Discussions with Murphy indicated that he would like to get a copy of the PIB's Proposal and would like to know what our recommendations are relative to the [redacted] message regarding 12 $\frac{1}{2}$ % reduction of material due to the lack of the mono overlap in the J-3 system. I indicated that as soon as we have made our reply to [redacted] that he would be informed of the contents of the message. Murphy again indicated that he planned to submit his budget for additional systems above the budget call, but that he was checking out this philosophy with [redacted]. I stated that we were gathering our data in such a way that if the NRO requested more systems than those now contemplated, that we could provide budget data on a fairly rapid basis but that I had no intention of submitting budget data for comparable payloads to cover six additional Agena systems.

3. Future activities and comments.

- A. Mission 1040 scheduled for launch on 29 March.
- B. VIP visit to [redacted] is scheduled for 28-29 March. [redacted] will attend.
- C. Negotiations with [redacted] on J-3 added scope items is to be held at [redacted] on 30 and 31 March.
- D. [redacted] to be at [redacted] during period 3-5 April for budget preparations and management discussions.
- E. Negotiations with [redacted] on J-1 and J-3 added scope items to be held at [redacted] on 6 and 7 April.
- F. The first tape recorder was received at AP on 21 March and will be installed in the bucket, USE 803 now in progress of weight and balance checks. Another tape recorder is expected within the next week. It appears at this time as though the tape recorder will not be a limiting item on the J-3 Program.
- G. [redacted] of [redacted] informed the Resident Office that [redacted] will no longer allow [redacted] personnel to "live" in the [redacted] plant producing shutters, despite the fact that this provision was in their contract. Since [redacted] considers [redacted] is responsible for proper operation, I requested [redacted] to take apart one of each batch (approx. 3 in each batch) of shutters delivered to insure proper manufacture

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and operation. There will be sufficient shutters to handle the J-1 Program using the procedure outlined above. At the present time, we need two additional shutters and 15 will be delivered by [REDACTED]

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