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6 January 1967

MEMORANDUM TO HEADQUARTERS

TO: [redacted]

INFO: J. McDonald
V. Webb

FROM: [redacted]

SUBJECT: WEEKLY ACTIVITY REPORT

REFERENCE: [redacted]

1. The reference message reported the planned travel of the Resident Office Staff for the period 9 to 20 January. This report will focus attention on the activity of the Staff during the period of 3 to 6 January 1967.

2. Activity for the week of 3 January.

Tuesday - 3 January

[redacted] n annual leave to attend funeral of his mother. The Staff Meeting was held to review the Program status. Major items discussed were:

1. The Design Review of the SRV fixed ballast. It was apparent that there was a definite lack of data here at the Resident Office and A/P relative to why [redacted] proposes a fixed ballast versus the swing down ballast which is incorporated in the J-1 system. At the Present, SRV's #801 and 802 will be sent to A/P with a strap-on fixed ballast (not a riveted or welded one). There is some concern that, lacking flotation and drop tests, a fixed ballast would be adequate for the SRV's. It was decided to send a fact finding committee too.

2. The condition of instruments 300 and 301 from [redacted] as accepted was reviewed. The dificiencies noted were that, (1) the Zenon flash is still not operating properly (the flash operates on a bench set-up but not on the instruments), (2) the rest of the data display requires some sprucing up and correction of minor defects, (3) the Theodosyns are not to be shipped with the system but will follow shortly, (4) the two instruments have not been properly focused, one is focused at +.001 and the other at +.004, (5) the 301 lens is not as good as the 300 lens but will be replaced when this system is refurbished,

(6) The low efficiency amplifier will be in system 300 and 301. The high efficiency amplifier should be available on system CR-1. It appears that CR 1 will be about 2 weeks late in arriving at A/P.

[redacted] of [redacted] attended the Staff Meeting and gave information to the effect that the USAF was going out with an RFP to request attitude determination studies and developments. There is not too much known on the approach that the Air Force will use, i.e. an APADS, stellar comparator etc. However, [redacted] of [redacted] has been assigned the responsibility and [redacted] is the "Chief hauncho" for [redacted]

[redacted] also desired additional data on J-3 within the next two to three months. A list of information he desired was left with us. Most of the data will be incorporated in the data book, however, such things as assembly drawings for the J-3 cameras and DISIC will be furnished separately. There appeared to be a need for a revision to the PG calibration report so that [redacted] office could have one report on which to base the data for their computor programs - we will study this problem further.

Wednesday - 4 January

[redacted] and [redacted] of LMSC/Sunnyvale briefed [redacted] on the LMSC study for Murphy on using Corona vehicle as the base for conducting MC and Geodocy missions. This ties in directly with the study that [redacted] is doing for the DNRO. The three cases that [redacted] studied were:

1. Using the GOPPS camera with two Mark 5 buckets. 1800
2. The GOPPS with one BIOS bucket.
3. The GOPPS with two BIOS buckets.

The total payload weight on case one would be about 1800 pounds. The study concluded that with Thorad, 2 mark 5 SRV's, and GOPPS camera, an auxilliary sensor package (radar altimeter, doppler radar, and accelerometers), up to a 15 day mission, up to 85 degrees inclination would be entirely feasible at a 100 N.M. perigee. The Geodocy mission likewise at a 160 to 200 N.M. perigee with two Mark 5's and a dual-burn Agena would allow a 17 day mission at inclinations up to 80 degrees or 15 days at 85 degrees. An item of note that developed during the presentation was that the Agena 8133 has been authorized on a low level basis. This would provide 600 pounds of additional payload. However, the present development would not allow 8133 to be available until 24 to 30 months from now. In addition, it was determined that the Thorad Senior would provide 1,000 pounds additional payload. Development of Thorad Senior has not been authorized to date to the best knowledge of the attendees.

A meeting was held with [redacted] relative to the user data book and the status of the integration of DISIC at AP. With regard to the data book, a rough draft was reviewed by [redacted] It was agreed that all effort would be made to have the data book, in rough form, given to the users for comment

after the PG Meeting in Washington on 23/24 January. AP is doing the technical writing and coordination of the book [redacted] will follow on a day-to-day basis). Users comments have been obtained on the DISIC portion. It is planned upon incorporation of the users comments and [redacted] approval that the book will be turned over to [redacted] for publishing. It appears that there will be two versions of the data book, one Corona only, and the other containing TKH material.

The status of the integration of DISIC at AP was reviewed. It was decided that:

1. The USAF would provide a clock simulator for [redacted] field service group so that the acceptance verification tests could be completed.

2. A/P would provide to [redacted] field service necessary equipment, such as Sanborn recorders, counters, oscillographs, etc. on a prior agreed upon schedule basis.

3. AP would modify the prototype Cut and Splice device now being used by [redacted] by removing the blade and possibly provide a light-tight chute.

4. [redacted] is currently writing "step by step" acceptance test procedures for use at AP.

5. AP will furnish to [redacted] the clean room procedures for their compliance.

Thursday - 5 January

[redacted] at [redacted] for [redacted] Program SI review with [redacted] and discussions with [redacted] on the [redacted] Program. [redacted] met with Murphy etal at Sunnyvale to review data on procedures, tests, time phasing of tests, acceptance and qualification levels that will be in effect for the Corona J-3 Program. [redacted] has requested a comparative presentation on how the [redacted] Project (formerly [redacted] and the [redacted] Project conduct their testing and certification for flight of the two vehicles. This presentation will include the boosters, the Agenas, and the payload. In a format mutually agreed upon, the Resident Office will furnish to Murphy seven charts. The charts to be furnished by the R.O. are as follows:

1. An overview of the flow of payload hardware with time phasing.

2. Flow of hardware through [redacted] with time phasing.

3. Flow of hardware through [redacted] with time phasing.

4. Flow of hardware through [redacted] with time phasing.

5. Flow of hardware through [redacted] with time phasing.

6. Payload Qualification and Acceptance Test levels.

7. Governing documents (specifications, master drawings, etc.)

It was determined by [redacted] that Mission 1038 would be launched on 14 January with the back up system to be at R-9 on that date. [redacted] attended an R-7 Meeting at Sunnyvale with representatives of the FSFD's and [redacted]

Friday - 6 January

The Resident Office Staff conducted normal administration. A meeting between AP and the R.O. was held to review the results of the fact finding visit (on SRV ballast and sink valve) to [redacted] on 5 January. [redacted] gave a briefing on the main items on his visit to [redacted] on 5 January. A summary of his comments is contained in sub-paragraph 3 G. A briefing was given to the Resident Office Staff by [redacted] Guidance Group relative to the ability to provide vehicle attitude data to the tape recorder to improve accuracy - it was determined that gyro inputs from present Agena system would not be accurate enough to meet 5 ARC seconds and hence no futher effort would be expended to try to get this input on the tape recorder. AP will investigate accuracy of RACS (Redundant Attitude Control System) gyro for this application. RACS is now under development for the [redacted] Program and should be available for use in February or March 1968. The [redacted] Program should be able to use without modification

3. Comments and future activities.

A. A review of the EKIT Program will be conducted at AP on 9 January.

B. An Electrical Design Review of the payload will be held at AP on 10 January.

C. A Program Managers' Meeting is scheduled at AP on 11 January.

D. The Design Review of the SRV Ballast will be conducted at [redacted] on 12 January along with the buy off of AGE # 1 and SRV 801.

E. R-1 Meeting will be held at [redacted] on 13 January for Mission 1038.

G. Mission 1038 has been rescheduled for launch on 14 January. This is planned as an 11 day mission.

G. [redacted]

Attachment