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REVIEWED

BY D. Reed

DATE 3/8/08

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5 January 1956

MEMORANDUM FOR: Commander Truck

SUBJECT: ARS Preliminary Development Plan

DOWNGRADED AT 12 YEAR INTERVALS; NOT AUTOMATICALLY DECLASSIFIED. DOD DIR 5200.10

1. As I indicated to you on the phone, there has been a sudden and drastic change in my plans; and I must temporarily completely withdraw from the activities incident to the preparation of a tentative development plan for ARS phase one participation in the IGY. I believe we have discussed this in sufficient detail that, with the recording of a few comments, you can carry on with no major upset.

2. First, to review our intentions, I am appending hereto a rough outline of the booster program and key data which Colonel King should carry back to Wright Field with him as a guideline in working out a program for the development and delivery of orbiting vehicles, guidance and control, instrumentation, data, recovery, etc. It is desired that this information be in sufficient detail to enable the general specification of the program including schedules and funding. It does not, however, need to cover contractor selection.

3. I have already advised Colonel Heck of the general nature of the booster program and have requested him to identify the problems incident to increasing Convair production to meet this requirement and to cost the program on the assumption Convair will be required to launch the vehicles. I have also asked him to investigate engine availability, guidance component availability, and support equipment; and to assemble the costs for these tanks also. I have instructed him that this information must be available no later than Wednesday morning of next week. I have mentioned this to Colonel Hall who assures me that engine availability will not be a major problem and that he can provide funding estimates to Heck.

4. It is planned that King and others of his organization will return to WDD with the information they generate, for a get-together on Wednesday January 11 at which time we must consolidate the information generated by King and ourselves into a concise development plan. During this phase we should certainly secure the maximum advice from Dr. Bess and his staff, in addition to any coordination you may be able to effect prior to that time.

5. It is our current intention to present the plan in the general format of Volume III of the Development Plan dated 18 November 1955. I am appending Colonel Tertume's copy of this plan for your information, with the suggestion that Colonel King read it prior to his departure to assist him in his work at Wright Field.

6. We have tended in our discussions thus far to think for the most part about the booster and the orbiting vehicle, and I am sure we have given sufficient attention to the facilities and data acquisition.

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WDTS, Subject: ARS Preliminary Development Plan

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Since these may be a significant contribution to the total program cost, I would suggest you give some thought to the complete operation and attempt to identify what facilities, items of equipment, instrumentation, data reduction, etc., type things may be required and try to get some rough estimates of cost for these.

7. It would be most helpful if you could lay out, during the early days of next week, a dummy of the development plan in which you would insert the information currently being generated. In addition you should be laying the groundwork for the typing, reproduction, assembly, mailroom processing, and forwarding of the finished development plan. I am providing a copy of this memorandum to Colonel Ternane as background information, feeling confident that he will provide you with any possible assistance during my absence.

J. Glasser
OTTO J. GLASSER
Colonel, USAF
Assistant for Systems Management

CC: Colonel Ternane, w/lc Incl (1)

2 Incls:

- (1) Schedule Information, 1p/3c (WDTS-56-3)
- (2) TD Plan dt4 18 Nov 1955 (WD-55-12525)

Dictated but not read.

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WDTS-56-3

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6 January 1958

SCHEDULE INFORMATION

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1. The following information is provided as a basis for scheduling the potential satellite vehicle program to occur during the latter portion of 1958 or early 1959. The following assumptions are employed:

- a. A series C missile must be used.
- b. A minimum of seven series C flights should occur prior to attempting a satellite launching in order to acquire crew skill with the series C missile and to provide an opportunity for removing bugs.
- c. Convair will provide launching crews and conduct the launching of these flights.
- d. A large amount of captive testing of the complete satellite system will not be required and can probably be achieved utilizing ICBM captive tests.
- e. A total of ten boosters will be required for the IGY phase of this program.

2. Based on the above assumptions, the following are essential comments concerning the phase one program:

- a. First launching will occur in August 1958 with a rate of fire of one per month thereafter, for a total of ten.
- b. First delivery of boosters to AMTC should be made in February 1958.
- c. First delivery of orbiting vehicle to captive test, February 1959.
- d. First delivery of orbiting vehicle to AMTC, February 1959. (This does not include the possibility that the orbiting vehicle may require individual launchings as such prior to its inclusion into the total system. Any such requirements should be included separately together with the plan for carrying them out.)

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