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MEMORANDUM FOR THE RECORD

19 Sep 62

SUBJECT: Approval to Re-Orient Program 206 to Air Retrieval Over
Pacific Area

A meeting was held in General Greer's Conference Room, 4th Floor of
Bldg. A at the R&D Center, from 0830 to 1000 hours on 18 September
1962 with the following in attendance:

<u>Pentagon</u>	<u>SSD</u>	<u>SSZX</u>	<u>Aerospace</u>
Dr. J. Charyk	MajGen R. Greer	Col Q. Riepe	Dr. A. Donovan
	Col R. Berg		Dr. W. Leverton
Col Martin	Col J. Ruebel		Mr. W. Sampson
Col Strand	Col Smith		
LtCol J. Sides	Capt Gorman, (USN)		

Purpose of Meeting:

1. To reaffirm the primary requirements of the program.
2. To determine the best design approach to meet these requirements.
3. To obtain approval of the fund requirements for the design approach selected.

Discussion:

Colonel Riepe gave the first part of the presentation outlined on Document V-2132 covering charts 1 through 8. On the question posed regarding the primary requirements of the program, the following comments were made:

Dr. Charyk: At the beginning of the program some of these requirements (precise land impact within a 3x10 area) presented here were objectives, not firm requirements that could not be relaxed regardless of cost and schedule.

Gen Greer: I agree but it has taken time to see which of the original objectives should be relaxed. Today, you will see the ultimate in relaxation of some of the original objectives.

Mr. Sampson then gave the second part of the presentation covering charts 9 through 13. On the point of longer mission life, these comments were made:

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Dr. Charyk: I am not sure why you want longer mission life.

Gen Greer: I thought I understood you to say two or three meetings ago that you were interested in this.

Dr. Charyk: Perhaps desirable for multiple mission flexibility.

Colonel Riepe then concluded the presentation covering charts 44 through 71. During this part, some of the more pertinent comments were:

Dr. Charyk: Do you have a column for complete program termination?

Col Riepe: No.

Dr. Charyk: I am ending up [REDACTED] to the good in FY 63 (by deciding on the H-30 over water retrieval design).

[REDACTED] You show [REDACTED] for GE for 698AL (land retrieval) and [REDACTED] for H-30, a simpler approach. Why is this?

Col Riepe: At this point in the program there are unrecoverable cost that have been expended on land retrieval. These costs are included in the [REDACTED] This figure is a 7% reduction of GE's estimate.

Gen Greer: We probably could negotiate these costs down but would most likely just be building in an overrun.

LtCol Sides: With the Discoverer schedule decreasing, I do not think it will be necessary to increase 6594th strength for Program 206. (H-30)

Dr. Charyk: We sent out a casual request for water retrieval and everyone grabs onto it like a drowning man to a life raft. This shakes our confidence in what we heard last August.

Gen Greer: I never really thought we would try for land impact on the first flight. What was the rationale of going for land in the first place?

Dr. Charyk: Operating cost, efficiency, security. If we are really going to get sophisticated in this space recovery business, we are going to have to learn to land these things in our backyard.

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Dr. Charyk: (Regarding recommendation to use H-30 water retrieval)
We don't have much option, do we? What are your thoughts as where we go from here? Do we go on with this forever"

Gen Greer: Land recovery doesn't make much sense except in an emergency.

Dr. Charyk & [REDACTED] Ultimate economic approach may be land recovery. It is expensive to keep an air-sea recovery force in operation. The development of an acceptable land recovery capability may ^{be} 10 - 15 years away.

Dr. Charyk: If you are going to recover men, you are going to have to develop a land recovery capability.

Dr. Charyk: Cancel present program (land). Proceed with H-30 (air retrieval-water). Will deliberate between now and January 1963 regarding follow-on recognizing there is a 2 - 3 month Atlas lead time problem. ([REDACTED] indicated that the Atlas lead time problem would be taken care of by placing orders against unidentified space shots).

Dr. Charyk: The 40-day launch interval is not a bad schedule if it is realistic.

Gen Greer: We are confident this is a realistic schedule for the RV but we may have problems with the OCV.

Dr. Charyk: (Summarizing)
We can handle the Atlas lead time problem, so basically it means a decision in January on follow-on (based on GE follow-on lead time)

Simplest design approach - H-30
Next - some land capability
Third - In-house study by Aerospace and AF on land recovery. What does land recovery ultimately buy you?

Dr. Leverton: Would you comment on kill probability? Are we in the ball park?

Dr. Charyk: I think the range you are working within is a good number (10^{-6})

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Dr. Charyk: (Summarizing again)
Use H-30 for initial ten (10) shots
Do this study between now and January to determine
what course to take on the follow-on
Life of program - 63 to 65
You did not discuss the point but if you were
starting over, would you use same payload or
would you go panoramic?

Gen Greer: We have looked into panoramic.

Missed pertinent comments here

Dr. Charyk: We are now enamored with this program (H-30). What
are the problems with this one?

Gen Greer: It is not without problems. We still have some of
the same ones such as stabilized platform, [REDACTED]

Dr. Charyk: What is the possibility that six months from now we
will say we need panoramic camera?

Gen Greer: It is not zero but like 20%.

Dr. Charyk: You went to GE and said let's go Discoverer. They
leaped on it. Now, if we went to EK and mentioned
panoramic, would they leap on it?

Gen Greer: No. We have already done this.

[REDACTED] We have got to protect the budget for the follow-on.

Dr. Charyk: We will get some brilliant idea in January - have a
program modification.

[REDACTED] That might be a little late.

Dr. Charyk: Call out H-30 all the way and in January I'll see if
I want to change it. If changed in January, make
some additions (to budget) at that time.

[REDACTED] What is FY63 requirement for H-30 follow-on?

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Col Riepe: [REDACTED]

Dr. Charyk: We will give consideration later on this year to land recovery. We will go with H-30 now.

Dr. Charyk: Let's get GE tied down on contract immediately (all contracts negotiated). Where do we stand now?

[REDACTED] We have two contracts negotiated - Phase A for design, development, testing, qualification; and Phase C, the corresponding "black" portion of Phase A. GE's proposal for Phase B - production of satellite vehicles - is due November 15.

There was a general discussion at this time regarding how to expedite the definitization of the outstanding letter contract (AF -155), the use of one white contract instead of two, and the desirability of using a CPFF contract for Phase A and a CPIF contract for Phase B.

Not much can be done at this time to expedite negotiation of AF-155 unless we can get GE to submit its proposal sooner than November 15, which is doubtful.

All right to use one contract instead of two. (Note: Apparently problem of having one contract for a large amount - like over [REDACTED] - is not considered a problem from a security standpoint anymore).

CPIF vs CPFF for Phase B.

Dr. Donovan, Dr. Leverton, and Mr. Sampson of Aerospace expressed reservations of being able to develop any meaningful performance incentives that could be reasonably measured during the design, development, testing and launch of the first ten SVs as the specifications are being developed during this period and are therefore subject to many changes. Dr. Donovan stated that about all you can do during this period is to measure QC.

Gen Greer and Col Riepe also expressed reservations on the appropriateness of writing performance incentives during this phase (first 10 shots).

Dr. Charyk: How many will you have to fly before you have realistic cost and performance data?

Dr. Donovan: May not have to fly any but will need to complete a considerable amount of testing.

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Dr. Charyk: What is our confidence for a June launch?

Col Riepe: Schedule calls for week 22 (1 June). May have problems.

Col *Martin*: Do you think the 4th flight will meet full spec on [REDACTED]

Col Riepe: Yes.

Gen Greer: Are you talking about camera changes within this scheme?

Dr. Charyk: Only in regards to reliability.

DECISIONS

1. Firstten (10) SVs will be H-30.
2. Follow-on will be H-30 which will be subject to change in January to incorporate limited land capability, but we are to proceed with procurement action now.
3. Cancel what we have on ice (precise land impact)
4. AF and Aerospace will make in-house study between now and January regarding desirability of land recovery.
5. May write one (white) contract instead of two (white) for first ten SVs.
6. Write CPFF contract for first ten SVs or appropriate portion thereof. Consider CPIF for any balance SVs not on CPFF contract.
7. Write CPIF contract for follow-on.

Talk incentives after get cost.

Will not consider any letter contract but must start program with a definitive contract (Note: This is an extremely tight schedule to get CPIF definitive contract distributed by GE lead time for follow-on approximately 1 March 63.)

*The above is from notes taken at
meeting by [REDACTED]*

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