## ORDER OF PRESENTATION

CHART 非
1A MOL Status Report
2A Briefing Outline
3A MOL Program Problem
Break -4A Background Outline
5A MOL Program Objectives
7A MOL Vehicle on Orbit
8A Interior of MOL Vehicle
9A List of Contractors
9B Prime Contractor Totals
Break -10A Current Status
11A Technical Progress
12A Key Tech Regs Performance
13A " " " Power
14A " " " Weight
15A Terf of Man in MOL
16A17A Status of Hardware Development (Adapted, New, Facilities)
Break -18B Title Hardware Pictures
Bye 68308-69
CHART 非
H-1 Titan IIIM Configuration
H-3 Titan IIIM Eng Demo
H-4 SRM Test Apr ..... 69
H-5 SLC-6
H-6 MOL Support Fac
H-7 GEM B Schematic
H-8 GB Dual Gas BP
H-9 GB Adapter Test
H-10 PSA
H-11 Assy Area - MM DAC
H-12 AFT Sec MM
H-13 Static Load Test LM
H-14 AFT Sec LM
H-15 Fue1 Cell
H-16 Airborne Dig Comp
H-18 Elec Cab Build-up
H-19 Miss Dev Sim ..... GE
H-20 Assy Area
H-21 Track Mirror Sub
H-22 GE Image VELO Sensor
H-23 GE Lab Console
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H-25 Command System
H-26 EK P1ant ..... (EK)
H-27 Test Facility (Schematic)
H-28 Test Chamber
H-29 Assy Area
H-30 Camera Assy
H-31 Model of Film Handling
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H-33 Model of Film Processor
H-34 Primary Mirror
H-35 Thermal Model of Optical Assy
H-36 Camera Optics APAR Eng Mode1
19A Summary of MOL Hardware Status
NOW TO 3RD STACK
Break-1 Program Progress
2 Financial Position
3 Cum Effect of 67-68-69 Funding Direction
4 Key Facts
5 Key Facts
6 Impact of Redirections on MOL Contractors

## CHART 非

7 Contractors' Personal Views
Next two charts are double projection with successive overlays for each -- first basic charts, then overlay \#1 on each, then over lay \#2, etc.
$\overline{8} \quad$ Fiscal Funding Chart

## 9 Funding Impact Chart

10 Contractor Manpower Requirements
11 Technical Impact
12 MOL Eng Nev Chart with Overlays
$12-1$
First $\frac{1 A}{2 A}$, then $\frac{1 B}{2 B}$ on top of $\frac{1 A}{2 A}$
$1 A \quad 1 B$
then remove 2 A and 2 B , and put 2 A and 2 B together

NEXT TWO CHARTS ARE DOUBLE PROJECTION
13 Integrated Test Flow
14 Int Test Flow (FY 69 Basiine) -- Use basic first, then $14-1$
$1 A$, then remove $1 A$ and use $2 A$ corresponds to 3 major points on Int Test Flow Chart

Break-15 FY 70 Program Analysis
16 Faced Facts
17 Systems Office Action
CHART 非
18 Systems Office Action
19 Systems Office Action
20 Systems Office Action
21 Systems Office Action
22 Systems Office Action
DOUBLE PROJECTION 23 AND 23-1
23, 23-1 Adjusted FY 70-71 Program Analysis Schedule
24 Adjusted FY 70-71 Program Analysis Schedule
25 FY 70 Regs vs Funds
26 FY 70-71-72 Funding Regs for New Plan
26-1 INITIAL Fy 学 Boculys
27
Alternatives
Break-28 Conclusions
29 Conclusions Tech
30 Conclusions Finan and Adj Program
31 Final Considerations
32 Final Considerations
33 Opinion

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## BRIEFING OUTLINE <br> BACKGROUND <br> CURRENT STATUS

FY 70 PROGRAM ANALYSIS

## 




[^0] SEC DEF MEMO TO PRESIDENT - 24 AUG 1965
(RECOMMENDED MOL PROGRAM APPROVAL) OBJECTIVES FOR MOL PROGRAM
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verification (focus, alignment) .... fine tuning (null pointing and tracking errors) and work around multiple equipment. failures the crew will add to high value of reconnaissance by IDENTIFYING AND SELECTING ACTIVE TARGETS (MISSILE ON PAD) .... AVOID WEATHERED IN TÁRGETS .... CAPABILITY FOR EXPERIENCE TO DATE HAS INGREASED INSIGHT INTO MAN'S ABILITY, PROVIDING HIGH CONFIDENGE THAT MAN WILL MAKE A SUBSTANTIAL CONTRIBUTION TO NOT OILY PHOTOGRAPHIC REGONNAISSANCE BUT OTHER RELATED MILITARY MISSIONS
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STATUS OF HARDWARE DEVELOPMENT
THE MOL PROGRAM UTILIZES
- 37 MAJOR hardware items that have been adapted from previous or existing nasa or dod programs $\therefore \quad \frac{39}{\text { DEVELOPED }} \begin{aligned} & \text { MAJOR NEW HARDWARE ITEMS THAT HAVE EEEN OR ARE BEING }\end{aligned}$
$\bullet \quad \frac{23}{}$ MAJOR FACILITIES THAT HAVE DEEN BUILT OR ARE FINISHING UP CONSTRUCTION EVERY ITEM OF EVERY SUBSYSTEM OR COMPONENT NEEDED TO MEET THE MOL SYSTEM PERFORMANGE HAS BEEN IDENTIFIED AND IS IN BEING IN VARYING STAGES FROM BREADBOARD TO FINAL FLIGHT HARDWARE

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FACILITY
$1762.6^{(4)}$ SHUTDOWN, ETC.

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KEY FACTS

## CUMULATIVE EFFECT OF FY 67-68-69 FUNDING DIRECTION

## AND FORECAST FY 70


RECOGNIZED NEEDS

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\text { FY } 70 \text { IS THIRD SUCCESSIVE YEAR MOL PROGRAM HAS BEEN FUNDED BELOW }
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CUMULATIVE EFFECT OF FY 67-68-69 FUNDING DIRECTION

## AND FORECAST FY 70

IMPACT OF REDIRECTIONS ON MOL CONTRACTORS THREE CONSECUTIVE AMENDMENTS TO 9 MAJOR ASSOCIATE CONTRACTS WHICH HAD TO BE SUBSEQUENTLY NEGOTLATED SEPARATELY AND THEN AS AN INTEGRATED WHOLE CONTRAGTORS HAVE REPEATEDLY BEEN DIRECTED TO ADJUST, DELAY OR
REDUGE MATERIALS, HARDWARE, AND COMMITMENTS - SEVERAL MAJOR CONTRACTORS HAVE GONE BACK TO READJUST SUBCONTRACTORS AS MANY AS 3 AND 4 TIMES! CONTRACTOR MANPOWER HAS BEEN REPEATEDLY ADJUSTED, SHIFTED, AND
REDUGED BETWEEN ENGINEERING, MANUFACTURING AND TEST development deferment degisions have been based on expected NEXT YEAR FUNDING GUIDANCE - FAILURE TO PROVIDE ANTICIPATED FUND S invalidated the technical deferment decisions of the PRIOR YEAR!





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- INDEPENDENT SEGMENT DEVELOPMENT DOMINATES.

- ek fully funded as paciug development
- iechnology and funds pace program.

SOME MANAGEMENT FLEXIBILITY.
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> SYSTEMS OFFIGE ACTION

## FY 70 MOL PROGRAM ANALYSIS <br> - SEGRET DORIAN



## -GEGEET DORIAN

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FROM RESULTS OF 2ND ACTION
RECOGNIZING WE COULD NOT REALISTICALLY DO THE PROGRAM AS CURRENTLY CONFIGURED
FURTHER RECOGNIZING THAT IF WE HAD TO LIVE WITH 525 IN FY 70 DRASTIC
CHANGES HAD TO BE MADE
IST MANNED FLIGHT GOULD NOT BE DELAYED BEYOND A REASONABLE SLIP .... FUNDING WOULD HAVE TO BE REALISTICALLY ADJUSTED .... EVEN IF REDUCTION IN PROGRAM CONTENT RESULTED .... AND TWO YEAR STABILITY MUST BE ACHIEVED .... IF IT IS TO SURVIVE
BASED ON THE FOLLOWING SPECIFIC GUIDELINES TO THE SYSTEMS OFPICE: - DROP FLIGHT VEHICLE NO. 7

- CONVERT FLIGHT VEHICLE NO. 6 TO A MANNED CONFIGURATION
- USE 6 MONTH CENTERS BETWEEN MANNED LAUNCHES
BUDGET FOR FY 70 IS 525 MILLION WHICH INCLUDED

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> BUT ABSOLUTELY ZERO FLEXIBLLITY .... NOW A DOMINO TEST FLOW

CATEGORIES OF ITEMS
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ENGINEERING ANALYSES


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SEGRET-DORIAN
OPINION
AS MUCH AS 600 - 630 MILLION DOLLARS OF ADDITIONAL
COSTS HAVE BEEN INCURRED DUE SOLELY TO ENFORCED
PROGRAM SLIPS
AS MUCH AS TWO YEARS WORTH OF A SUBSTANTIAL QUANTITY
OF VERY HIGH RESOLUTION PHOTOGRAPHY .... PERHAPS VITAL
TO CURRENT USSR - CPR WEAPON SYSTEM ASSESSMENT ....
MAY HAVE BEEN LOST DUE TO ENFORCED PROGRAM SLIPS ....

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DEPARTMENT OF THE AIR FORCE WASHINGTON 20330

mEMORANDUM FOR THE RECORD
SUBJECT: MOL Policy Committee Meeting of 9 May 1969
The MOL Policy Committee was convened at 0930 hours in the Secretary's Conference Room. The principals in attendance were:

## AIR FORCE

Dr. Robert C. Seaman, Jr.; Secretary of the Air Force
Dr. John L. McLucas; Under Secretary of the Air Force
Mr. Grant L. Hansen; Assistant Secretary of the Air Force (Research and Development)
for the Assistant Secretary of the Air Force (Financial Management)

Mr. Philip N. Whittacker; Assistant Secretary of the Air Force (Installations and Logistics)

General James Ferguson; Director, MOL Program
General James T. Stewart; Vice Director, MOL Program
General Joseph Bleymaier; Deputy Director, MOL Program
General Marvin McNickle; Deputy Chief of Staff, Research and Development
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## OBSERVERS

Mr. I. Nevin Palley; Assistant Director (Space Technology), DDR\&E

Mr. Michae1 I. Yarymovych; Deputy for Requirements, Assistant Secretary of the Air Force (Research and Development)

General Ferguson opened the meeting with a brief discussion of the history of other manned space ventures, explaining that in the mid 50's a program called BRASS BELL became the basis for later Mercury, Gemini and Apollo space flights. He mentioned that the Air Force had undertaken DYNASOAR with the objective of first flight in 1968 but terminated the program in 1963 after expending $\$ 800$ million. However, the DYNASOAR booster, the T-III, was not terminated and has now become one of the mainstays of the booster inventory.

General Ferguson observed that while MOL was announced in 1963 it was not approved until 1965 and since that time there have been three major rescheduling exercises. He stated that, in view of the present circumstances surrounding the program and the present attitudes in Washington concerning it, he had convened a Board of Air Force Officers, representing the best space management talent available, to review the program. Following the review, the group concluded that the program was ready to go but it lacked the dollars necessary to proceed efficiently. For this reason he had requested the MOL Policy Committee Meeting to review the circumstances of the program and to re-evaluate the need for military man in space. He concluded by saying "We are ready to fish or cut bait."

Dr. McLucas asked whether or not the reconnaissance mission had been used as a means for justifying MOL approval in 1965. General Bleymaier responded by pointing out that initially MOL was prohibited from looking at overhead reconnaissance as a mission and therefore had concentrated on various space experiments. It was only after the prohibition was lifted and MOL given a reconnaissance mission that the program was approved. General Ferguson observed that the Air Force had a mission in DYNASOAR but they were not allowed to pursue it. DYNASOAR

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concentrated on various experiments and the program was lost. At this point General Bleymaier then began the formal portion of his presentation.

General Bleymaier began by emphasizing the fact that the MOL Program has suffered as a result of funding instability over the past three years but progress has been made. The program has reached a point of maturity where the integration of the efforts of individual contractors must be brought together into a total effort and this will require at least two years of stabilized funding support. General Bleymaier then proceeded to review MOL program objectives, MOL contractors, fund requirements of both associate and major subcontractors, and current program technical status. General Bleymaier pointed out the MOL program is totally defined, progress is being made, there are no pacing items, the technical schedule is predictable, and the technical objectives are clearly achievable. To support his contention, the key technical requirements of the program were reviewed which demonstrated all aspects of the program were meeting or exceeding specified performance requirements.

Man's role in MOL was reviewed with the conclusion that our experience to date provides high confidence that man will make a substantial contribution not only to the reconnaissance mission but to other related military tasks.

General Bleymaier then reviewed a series of hardware pictures and discussed existing hardware and contractor performance, concluding with the observation that all the pieces of the system are available and must now be tested together.

At this point, Mr. Hansen expressed concern over the amount of hardware on hand and the time lag due to schedule stretches. His concerns addressed shelf-life obsolescence and the difficulty of incorporating changes in already fabricated hardware. He was assured that this problem would be carefully studied and changes, if any, would be qualified at the component level prior to systems test.

General Bleymaier then proceeded to conduct an in-depth review of the MOL financial position. He discussed the end FY 68 and 69 position and the estimated end FY 70 position based on an FY 70 NOA of $\$ 525$ million. General Stewart pointed

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out that our present position is such that if we wait to 1 July to cancel the program we will have to acquire $\$ 130$ to $\$ 150$ million of FY 70 funds to pay termination costs. He also observed that at our past and present rate of expenditures, we will expend our entire FY 70 NOA in FY 70.

General Bleymaier then reviewed the cumulative effect of MOL underfunding of the past three years and the impact of these reductions on the contractors from both a technical and managerial viewpoint. He stressed the effect of the integrated test flow and its relationship to funding requirements.

Mr. Hansen expressed concern over the technical integrity of the hardware as it relates to the extended schedule. Mr. Palley pointed out much has been done to protect hardware integrity by stressing payload work at Eastman Kodak and General Electric in preference to vehicle hardware at the other contractors.

Mr. Whittacker asked how much of a technical advance does the MOL payload represent over other photographic systems. General Stewart explained that the MOL payload is that intelligence sources indicated the Russians photograph China as much as they do the U.S.

Mr. Whittacker then asked if there was any real threat of Soviet inspection of our satellites. The question was asked in the context of what happens to the vehicle at the end of the mission. It was explained to Mr. Whittacker that the vehicle will be deorbited and destroyed as are the unmanned reconnaissance vehicles.

General Bleymaier continued with his analysis of the FY 70 MOL situation. He reviewed the Systems Office actions
based on an FY 70 NOA of $\$ 525$ million. He explained the directions given to the contractors which included schedule adjustments, deletion of technical items in the program, with the current ground rule that there would be no compromise in safety or system performance. He explained that the first unmanned qualification flight had been deleted from the program along with a number of other adjustments. He observed that this last program readjustment provided for acceptable risks with absolutely no further flexibility within the program structure.

General Bleymaier then acknowledged the review conducted by General Ferguson indicating that General Ferguson concurred in the changes made in the program.

General Bleymaier then identified a real requirement for $\$ 535$ million in FY 70 and $\$ 625$ million in FY 71 . He stated that he felt that the program had arrived at about the irreducible minimum at those levels. He also stated that the program does not need additional time, the present stretches are costing between $\$ 200$ and $\$ 300$ million a year. The total price could be reduced if the program was funded at a higher level to increase the momentum and shorten the period of performance. In his concluding remarks, General Bleymaier reiterated that the program is almost completely defined, test results to date have met or exceeded expectations, no technical or facility requirements stand in the way of the first manned launch in mid 72 and every item of equipment needed to meet system objectives is in some state of fabrication. He asked for a firm commitment to a funding level of $\$ 525$ million in FY 70 and $\$ 625$ million in FY 71 to insure the essential program stability.

General Ferguson called attention to MOL management actions: that since the inception of the program he and Secretary Flax conducted monthly reviews of the program and that he met twice a year with the top representatives of each of the contractors. He said that General Bleymaier had just completed meeting with these top level people and in his opinion he had never seen a more tightly managed program. Mr. Whittacker asked General Bleymaier how many Aerospace people worked on

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the program. General Bleymaier responded by saying 250 were currently supporting MOL and he planned to reduce this by approximate1y 40 next year. He also stated that Aerospace had made a very important contribution to the program. General Bleymaier went on to say that he did not know of any program that is as well documented as the MOL. He stated that every word and every document had been negotiated and that the MOL Systems Office knows precisely what the program contains and how much its going to cost.

Mr. Hansen stated that Aerospace people had complained to him that they had not been able to do everything they would like to do in terms of technical detail in respect to MOL. General Bleymaier stated that he did not feel it was necessary for the government and Aerospace to do the very detailed systems engineering that has been done in the past. It is his opinion that industry has learned a great deal over the last several years and this coupled with fixed price incentive type contracts does not require the govermment to go to such a great depth of detail in the systems engineering area.

Dr. McLucas made the observation that at the end of next year we will have over half the money necessary for MOL invested in the program. At the end of this year only about $1 / 3$ of the investment will have been made. This is bad timing for the program because people think they can get a lot out of it if the program is cancelled.
made the observation that he doesn't think anyone would give the program a firm commitment for $\$ 625$ million for FY 71 in the present environment. He observed that we had budget objectives of over $\$ 600$ million for a number of years but the program had never made it. He suggested that one way to get the total dollars the program needs is to split the requirements between two appropriations, i.e., RDT\&E and production. He further stated that it would be necessary to ask the Secretary of Defense for a waiver of the full funding provision in the procurement appropriation.

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Secretary Seamans stated that he wanted a copy of all the charts for his discussions with the President on MOL. He stated that the program should not be looked at as only a reconnaissance system but should be considered as part of the total national space program. He stated that we must have enough of a space program in the Department of Defense to be able to take advantage of the new technologies coming out of NASA and the ability to respond to foreign threats. He stated we must show that man has a real job to do in the system. He feels that people do not understand this well. He stated that no unmanned system has the broad vision capability of MOL, the capability for cloud avoidance, and the capability to acquire real time intelligence of high value.

A brief discussion took place between Dr. Seamans, General Ferguson and General Stewart on data return. Dr. Seamans indicated that it would be useful to have an intermediate data return capability prior to mission completion. General Stewart pointed out the technical intelligence products of MOL will probably not have great short term urgency but will probably better lend themselves to long term analysis. He further pointed out that the astronauts can identify and report target data on almost a real-time basis. Further, the astronaut using the alternate camera back, can photograph and analyze pictures on-board for oral reporting purposes. Dr. Seamans said he felt he could speak with more knowledge on just what the astronauts could do if he could have an opportunity to review the simulator at G. E.

Dr. McLucas stated that in his mind there is a question as to how much better it is to have a man looking ahead of the vehicle and picking out interesting targets instead of pre-programming an unmanned vehicle. He stated that this question also relates to the ability of the man to make choices between alternate targets. General Ferguson pointed to present Russian manned and unmanned space experiments including crew exchange and the FOBs. He stated that he felt that the administration needs something of a manned military nature.

It was pointed out to Dr . to do

Seamans that MOL has a capability General Stewart explained that

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## in 30 davs MOL

Dr. Seamans requested a copy of the report. Dr . Seamans asked if during these first four flights MOL will have this capability and he was answered affirmatively. He further asked if the CIA had been advised. General Stewart pointed out that we had advised USIB but they seemed only mildly interested.

A brief discussion then followed on the astronaut's use of the Bi-mat processor.

Dr. Seamans then discussed his needs for materials on MOL that he could use in a discussion with the President Later in a private session with Dr. Seamans, General Stewart identified specific materials which Dr. Seamans might desire for his discussion with the President.

Dr. Seamans stated that he felt that there would be no point in discussing budget details with the President but that his first job was to save the program. He observed that when he took his present job he said, rather than cut MOL funding, the funds should be raised.
observed that the Bureau of the Budget issue is that when $G$ gets down to ground resolution the improvement to resolution will not be worth the cost of MOL. He said that the BOB has not considered one other factor of the impact of cancellation of MOL and that would be the increase in overhead on the other reconnaissance programs due to the loss of business by MOL contractors.

Dr. Seamans concluded the meeting by saying he would like to get to the President some feeling for the number of people involved in program cancellation and the distribution of these people around the country. There was no summary or conclusions at the end of the discussion period and no specific concurrence or lack of concurrence with the proposed five shot program or adjusted flight schedule. (Later discussion with Dr. Seamans indicated acceptance of the five flight program plus a space T-IIIM).

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Copies of the briefing charts are available in SAFSLP.


Vice Director, MOL Program

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[^0]:    MOL PROGRAM OBJECTIVES

