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DEPARTMENT OF THE AIR FORCE
WASHINGTON 20330

SAFSP Study #10067

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OFFICE OF THE SECRETARY

JUL 3 1969

MEMORANDUM FOR DR. SEAMANS

SUBJECT: MOL Termination Status Report

There follows a summary of the status of MOL Program termination as of July 1:

CONTRACTORS:

o McDonnell-Douglas (Laboratory and Gemini B):
On June 10, McDonnell-Douglas was directed to terminate all MOL activities except for temporary stopwork notices to three subcontractors--Hamilton Standard for the ECLS; Fairchild Hiller for the Waste Management System; and IBM for the spacecraft computer. This was done to give NASA an opportunity to review work in those areas in a reasonably orderly environment, and so that SAFSP might determine the need to continue computer development for possible future unmanned use. On June 24, with NASA and SAFSP agreement, the MOL Systems Office directed McDonnell-Douglas to terminate those three subcontracts. As of that date, all McDonnell-Douglas MOL contracts were totally terminated.

o Eastman Kodak: (Camera, Optics, etc.): On June 10, EK was directed to terminate all man-unique aspects of the camera system--the spacecraft Bimat film processor, visual optics, etc.--and reduce effort on all other work, pending a determination of what would be continued. On July 1, SAFSP signed a contract with EK for the camera system development that will be continued; and simultaneously, the MOL contract with EK was totally terminated.

o General Electric (Tracking Mirror Drive; Camera Controls; Simulators; etc.): On June 10, General Electric

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Page 1 of 6 Pages
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was directed to terminate all man-unique elements of the MOL camera system and reduce effort on all other work pending a determination of what would be continued. On July 1, the camera system development effort being continued at GE was assumed as an Eastman Kodak subcontract (under the SAFSP contract with EK described above); simultaneously, the remainder of the GE MOL contract was totally terminated.

o Martin/Aerojet General/AC/United Technology (Titan IIIM): On June 10, the Titan IIIM Program at these contractors was terminated except for certain components and subsystems planned and programmed for the T-IIIB, C, and D, as well as the T-IIIM. At a June 30 meeting in Washington (SAFRD, MOL, AFRDS, Hq AFSC, and SAMSO participation), agreement was reached on the specific work to be continued under other Titan III SPO contracts, starting July 10; simultaneously, the MOL Titan IIIM contracts will be totally terminated.

o Hamilton Standard (Pressure Suit): On June 10, this MOL Systems Office-held contract with Hamilton Standard was placed in a temporary stopwork status so that NASA might examine the work in progress. On June 23, at NASA's request, Hamilton Standard was redirected to resume work on a minimum expenditure basis until July 31. On or before that date, NASA plans to let a new contract with Hamilton Standard to continue the bulk of the effort; simultaneously, the MOL contract will be terminated.

o Whirlpool (Feeding System): At NASA's request, this work is being continued until July 31 unless NASA can let a new contract with Whirlpool at an earlier date; simultaneously with NASA action, the MOL contract will be terminated.

o TRW (Software): The ascent and spacecraft software contracts were terminated on June 10 and June 19.

o Aerospace Corporation (Technical Support to MOL SPO): Approximately 350 Aerospace MTS's (Members of the Technical Staff) were working on MOL matters--about 50 on the T-IIIM; 250 on other elements of the MOL system; and 50 on MOL-related Satellite Control Facility items. This

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Page 2 of 6 Pages
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total began to be reduced on June 11 and, for all practical purposes, MOL had no further need for Aerospace technical people after June 30. However, to insure both some limited Aerospace technical assistance to the MOL Systems Office during the termination process and also an orderly Aerospace phasedown of MOL activities, the MOL Program will fund about 150 Aerospace MTS man-months in early FY 70 (approximately \$500K).

MILITARY CONSTRUCTION:

The military construction portion (e.g. steel, cement, mechanical, etc.) of the SLC-6 launch facility was virtually complete on June 10 and acceptance testing is underway. Except for a few MOL-peculiar items, this phase of the SLC-6 will be completed. All such work and mothballing will be finished by early Fall.

Five major MOL support buildings at VAFB were more than 90 percent complete. Except for partitions, clean room provisions and other MOL-peculiarities, these are being completed. Future use will be determined by Commander, SAMSO.

Other minor MOL support facility construction and/or modification underway at VAFB has been stopped. Where desirable, a few sites and facilities will be returned to their original configuration. Future use of all such facilities will be determined by Commander, VAFB.

PERSONNEL:

Twelve of the 14 MOL flight crew members (9 AF, 2 Navy, 1 Marine) have been nominated to NASA for astronaut duty. A preliminary NASA reaction is expected before July 10. As an alternative, if they are not assigned to NASA in an astronaut capacity, tentative other assignments (flight test, school, etc.) have also been selected for the 9 AF officers. The Navy and Marine Corps have deferred reassignment considerations for their three MOL flight crew members pending NASA reaction.

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Page 3 of 6 Pages
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Thirteen officers and two civilians, along with 13 military and 5 civilian manpower spaces, are being transferred from the MOL Systems Office to SAFSP in conjunction with the continuing camera system development responsibility assumed by SAFSP.

General Hudson (AFSC DCS/Personnel) headed up a team of AFSC Personnel people who interviewed all MOL Systems Office people for reassignment late in June. Special emphasis was placed on assigning individuals in accordance with desires, skills, vacancies, personal considerations, etc. Firm immediate or future assignments have already been made for about 80 percent of the approximately 180 officers and airmen assigned to the MOL Systems Office. The approximately 100 MOL civilian personnel are being reassigned by SAMSO. By mid-August, the Systems Office will have been reduced to perhaps 40 military and 20 civilian personnel; and although this total will be gradually reduced in the future, termination activities will require a MOL Project Office in SAMSO for a considerable period.

As you know, prior to MOL cancellation, Gen Bleymaier had tentatively planned to retire near the end of this year (a few months earlier than his mandatory retirement date). He would therefore have started terminal leave in the Fall. It appears, at this time, that MOL termination activities which need his direction and guidance will progress at a rate such that he can retire as previously planned.

The Aerospace Medical Division is in the process of reassigning their more than 100 military and civilian personnel who were directly involved in MOL. A small number (involved in pressure suit/feeding system development) may be attached to NASA.

The 16 military and 8 civilian personnel assigned to the MOL Program Office in Washington on June 10 will be reduced in number to 4 military and 2 civilian by mid-August. Appropriate reassignment actions are underway. Because of the special MOL financial, personnel, security, L&L, PIO, etc. management procedures, a small MOL office will be

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Page 4 of 6 Pages
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required in Washington throughout much of FY 70. Colonel Ralph Ford will head-up MOL Washington activities, effective upon my departure, for as long as necessary.

The MOL Field Detachment at NASA-Houston will be continued and reassigned to SAMSO this Fall.

FINANCIAL:

Just prior to cancellation, it was estimated that about \$75 million more than was available to the MOL Program would be needed for termination, phasedown, etc. Subsequently, it was determined that some work should be continued longer than planned (Titan IIIM, space suit, etc.), and that a larger portion of the EK and GE efforts would be terminated than originally anticipated (this latter action will result in higher termination costs for MOL but less continuing FY 70 costs for SAFSP). Also, it became clear that MOL FY 70 Obligating Authority (via Continuing Legislation) should be provided SAFSP to continue camera system development until FY 70 Authorization/Appropriation Legislation was enacted.

The result of all of the above is that \$125 million is being requested in the FY 1970 Budget for MOL "liquidation." Of this total, [REDACTED] will be transferred to SAFSP to finance continuing camera system development for the first few months in FY 70.

The \$110 million FY 1970 Obligating Authority for MOL termination looks about "right" at this time. This FY 70 OA, plus the small amount of MOL FY 69 and prior funds not expended by June 10, will pay for all work continued on MOL contracts after June 10 until total termination, plus all termination costs. Most of the funds will be expended in the first half of FY 1970. A detailed financial analysis will be available about the end of this month.

MISCELLANEOUS:

Because of the large number of MOL contracts across the country, the AF Contract Management Regions, their Navy

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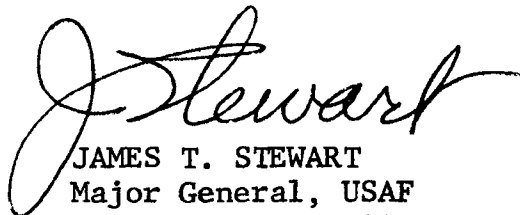
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counterparts, and the Defense Contract Administration Service will all be involved in varying degrees in MOL termination. General Bleymaier is negotiating working agreements with each because of security considerations and MOL contract arrangements.

Dr. Yarymovych's Ad Hoc Group of SAFRD, Air Staff, MOL, Hq AFSC, SAMSO, NASA, and DDR&E people, established to insure that maximum national benefit is derived from MOL residuals, had their initial planning meeting in Washington on June 30, The formal review will begin about July 10 on the West Coast. Their report will be submitted o/a August 1.

FUTURE TERMINATION STATUS REPORTS:

Monthly status reports on MOL termination progress will be submitted as long as they seem worthwhile. When appropriate, special subjects will be reported on as they occur.



JAMES T. STEWART
Major General, USAF
Vice Director, MOL Program

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Page 6 of 6 Pages
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