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DORIAN SECUR.

FOR GENERAL BLEYMAIER FROM COLONEL FORD. INFO: MR. RUTTER AND MR. COHEN.

SUBJECT: DISPOSITION OF MOL RESIDUALS.

THIS MESSAGE IN TWO PARTS AND SUPPLEMENTS OUR UNCLASSIFIED MESSAGE 1 OCT 69, SAME SUBJECT.

PART I. THE DISPOSITION OF DORIAN HARDWARE APPROVED BY DR. SEAMANS IS AS FOLLOWS:

1. THE IMAGE VELOCITY TESTOR, IVS SENSOR EQUIPMENT, BREADBOARDS, ETC., ARE TO BE TRANSFERRED TO THE AIR FORCE AVIONICS LABORATORY. AFAL WILL PROVIDE ALL NECESSARY FUNDS REQUIRED TO SANITIZE ANY DOCUMENTATION THEY DESIRE. THE SANITIZED DOCUMENTS REQUIRE YOUR APPROVAL PRIOR TO RELEASE.
2. THE BI-MAT ON BOARD PROCESSOR IS TO BE TRANSFERRED TO AFAL WITH FUNDS AS NECESSARY TO BE PROVIDED BY THEM.
3. THE ACQUISITION AND TRACKING SCOPE AND MISSION SIMULATOR ARE TO BE HELD PENDING THE COMPLETION OF A NASA/DCD EVALUATION OF THIS EQUIPMENT IN SUPPORT OF THE NASA AAP AND/OR EARTH RESOURCES ACTIVITIES.

PAGE 2 ██████████ 1050 ~~SECRET~~

THE PLAN IS FOR NASA TO FUND A STUDY CONTRACT THROUGH SAFSP, WITH A STUDY COMPLETION DATE OF O/A 1 DECEMBER. ALL COSTS ASSOCIATED WITH THESE ACTIONS ARE TO BE ASSUMED BY NASA.

PART II. THE AF WEAPONS LABORATORY HAS EXPRESSED STRONG INTEREST IN IVS TECHNOLOGY, AND THE ██████████ TORQUERS, GRYOS, BEARINGS AND SHAFT ENCODERS. IN MY MESSAGE ██████████ 1049, MR. COHEN AND L/C LAMBERSON OF AFWL WERE IDENTIFIED AS THE POINT OF CONTACT FOR TRANSFERRING ANY UNCLASSIFIED EQUIPMENT, AND WORKING WITH ██████████ TO SURFACE CLASSIFIED TECHNOLOGY FOR TRANSFER TO AFWL. THIS ACTIVITY SHOULD CONTINUE WITH ALL COSTS TO BE ASSUMED BY AFWL.

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DORIAN



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546



OFFICE OF THE ADMINISTRATOR

Honorable Robert C. Seamans, Jr.
Secretary of the Air Force
Washington, D. C. 20330

Dear Dr. Seamans:

As you requested, NASA has participated in the DOD analysis of the MOL inventory of equipment, capabilities, and facilities that might play a role in NASA's space flight activities. NASA has received considerable assistance in the general areas of spacecraft and ground equipment. Of the DORIAN elements, the most significant items of interest at this time appear to be:

- a. The acquisition and tracking telescope system (ATS), together with the General Electric simulator.
- b. The Eastman Kodak facility and capability for building large optics near the diffraction limit.

We can foresee the use of the ATS or a derivative for earth observation from orbital workshops and space stations in connection with earth resources survey activities — if simulation and test programs point in that direction. We further see an early development of large orbital astronomical facilities which would be built around large reflectors of DORIAN quality.

The principal problem we would face in pursuing these ends is the one of preserving the security of the DORIAN program and the related intelligence activities while at the same time maintaining the open, unclassified character of the NASA program. If it were possible to make equipment and facilities available to NASA without any chance

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that their DORIAN origin would become evident, we would feel it to be in the best interests of all to proceed in the normal unclassified mode. On the other hand, the Eastman Kodak facility has an apparent continuing value and utility to the NRP and should therefore not be compromised.

What we feel might work is as follows:

- a. Evaluate, through the GE simulator, the utility of man in earth resources survey. We would have to request clearances for a very few key people for this job.
- b. If the results are positive, NASA could contract as appropriate with ITEK and GE for development and procurement of the ATS. The equipment history could perhaps be revealed as coming from USAF supporting development without being linked to the MOL.
- c. In the near term, NASA is most interested in finding out what can be done with DORIAN-type hardware along the lines of a follow-on to our ATM. We would like to have Eastman Kodak, with your approval and guidance, undertake a small engineering and feasibility study of this matter. On a longer term basis, we are interested in the overall capability of Eastman Kodak in building very large optics for future astronomical systems; we plan to discuss the technical possibilities with already cleared astronomers.
- d. If these actions are approved and lead to subsequent decisions to proceed with system developments, it might be feasible to sole-source such activities to Eastman Kodak on the grounds that they have unique proprietary processes for grinding and polishing large optics. This would preserve Eastman Kodak's role in DOD programs without compromise.

The above is admittedly an outline only of the problems and of possible solutions; if they appear feasible, we would like to work out the details together as soon as possible.

Sincerely,

Homer E. Newell
Associate Administrator

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NR0 APPROVED FOR MESSAGE FORM
RELEASE 1 JULY 2015

SL Paul

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TO: SAMSO LOS ANGELES CALIF

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For General Bleymaier, Info: Mr. Rutter,
Mr. Cohen from Colonel Ford. Subject:

Disposition of MOL Residuals. This message
in six parts.

Part I. Confirming our September 30 telecon,
the Ad Hoc Committee recommendations for the
disposition of MOL residuals were approved
by Dr. Seamans on September 29. A summary of
the committee recommendations and the approved
disposition action follows.

Part II.

1. The Committee Recommendation that the
Feeding System contract be transferred to NASA

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	Bertram Kemp Lt Colonel, USAF	50961		<i>Ralph J. Ford</i>
				TYPED NAME AND TITLE
				RALPH J. FORD, Colonel, USAF Assistant for MOL Program

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has been approved. The recommendation that the sample pressure suits and support equipment be transferred to NASA has also been approved.

2. The Committee recommendation that Gemini AGE be returned to NASA has been approved.

3. The transfer of the waste management components and technology, and the oxygen sensor components to NASA has been approved.

Part III. The items recommended for special consideration and further study were evaluated by interested DOD/NASA activities. The resulting recommendations, all of which have been approved, are as follows:

1. One set of the CAGE Equipment, located at Martin, Denver including two Sigma 7 computers and associated software has been approved for transfer to the Air Force Western Test Range. Relocation and installation costs are to be borne by AFWTR. The AFWTR contact is: Mr. Richard Sanders, WTNIS, Air Force Western Test Range, Vandenberg AFB, Calif.

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2. The Laboratory Module Simulator System at MDAC, Huntington Beach, including the IBM 360/65 and associated hardware/software has been approved for transfer to NASA without reimbursement. All subsequent costs for the system are to be borne by NASA. The NASA contact is: Mr. Stan Faber, Code CF33, Manned Spacecraft Center, Houston, Texas, telephone (713) HU 3-3411.

3. One set of the CITE equipment (Standard CITE #400A) with its associated SDS 9300 has been approved for transfer to the Air Force Office of Scientific Research (AFOSR). Relocation and subsequent costs will be borne by the receiving organization. AFOSR contact is: [REDACTED] AFOSR (SRKB), 1400 Wilson Blvd., Arlington, Va. 22209, telephone OX 4-4942.

The ADPE, associated with items 1, 2 and 3 above, will be reported via letter to Hq USAF (AFADAE) Attn: Mr. Fruchter for inventory reporting purposes. The report will contain:

- a. Nomenclature description of item;

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- b. acquisition dollar value;
- c. to whom shipped; and
- d. date of transfer.

4. The Mission Simulator at General Electric, including the 360/44, is to be retained in a hold status pending results of a ^{RSP} study for possible use.

Results of the study should be available o/a 1 December 1969. In reference to the 930/2200 this computer should be retained in a hold status if required for the mission simulator.

5. The remaining ADPE is to be reported in accordance with Section 24, Part 2 of the ASPR. The ADPE which remains and is to be reported is as follows:

- a. Four SDS 9300 located at Huntington Beach to have been used as part of the ASTEG;
- b. ^{Two} One SDS 9300 located at ~~Daytona Beach~~ ^{Valley Forge} to have been used with the second ^{of three} CITE;
- c. One SDS 930/2200 located at Valley Forge to have been used with the Mission Simulator;
- d. Two Honeywell 24's and one Honeywell 324 located at St. Louis to have been used with the Gemini B]

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Simulator;

e. Two SDS Sigma 7's located at Martin, Denver

to have been used with CAGE.

f. 4 pi. IBM Computers

Part IV. So as to protect the DOD interest and ownership of equipment, all equipment transfer documents to NASA should be annotated so as to read "When this system is no longer utilized by NASA, the ADPE will be reported back to DOD for redistribution!"

All other equipment is to be reported in accordance with the requirements of ASPR.

Part V. The recommendations regarding disposition of the fuel cell hardware, attitude control engines, AAP experiments equipment and mass measuring device have all be approved. However, with respect to any of these items if your investigations and evaluations have established what you feel is a priority application, feel free to exercise your best judgement with regard to their disposition.

Part VI. The SO should proceed with all actions

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necessary to implement and complete the aforementioned
recommended actions. My office is ready to assist
in any way you desire.

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