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DEPARTMENT OF THE AIR FORCE
MANNED ORBITING LABORATORY, SYSTEMS PROGRAM OFFICE (OSAF)
AF UNIT POST OFFICE, LOS ANGELES, CALIFORNIA 90045



19 FEB 1968

MEMORANDUM FOR GENERAL STEWART

SUBJECT: Special Materials Support Requirements for MOL

The manned MOL flights, as currently baselined, will support not only the early development of the unmanned automatic flights, but also will provide for the evolution of techniques to enhance qualitatively and quantitatively the value of the intelligence collected. All flights, manned and unmanned, require precise knowledge of the location of each aiming point. To realize the further enhancement of collected intelligence possible in manned flights, it will be necessary to train flight crews, utilizing special stimulus materials, and to provide them with target cues for use on board the spacecraft.

We have worked for some time with specialists in this field, and we have completed our assessment of what will be required for the orderly and timely development of this segment as a system. Key to the systematic accomplishment of this task is the development of a Master Chip File (Attachment 1) which consists of highly controlled master photographic negative chips of each designated MOL-DORIAN target installation. These chips will constitute the primary reference source materials for the identification and location of MOL-DORIAN aiming points, and they will also be the master negative from which the operational cuing target materials and cue-derived training materials will be produced.

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We are now at the point where increased support will be required in the actual preparation of the special materials we need. The capabilities of the several agencies which could furnish this support have been evaluated, and we have concluded that we should continue utilization of ACIC for this purpose. As you are aware, ACIC does possess an extensive technical capability and much experience in similar support activities. ACIC is also currently providing stimulus materials support for our mission simulators. An increased role would constitute a significant expansion of ACIC's current support; however, it would consolidate this type of support within a single government agency and eliminate the need to coordinate the activities of several agencies.

Providing the required support involves several functions which require long lead times. The preparation of a Master Chip File, for example, will require approximately 28 months. ACIC is willing to

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Attach 1

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assume the responsibility for providing the support if they are assigned the task through AFNIN channels. ACIC personnel have briefed Gen Thomas and he has given his tentative approval. In order to assure support of a first manned launch in August 1971, we should initiate a request for increased ACIC effort by the end of FY68.

ACIC proposed to Gen Thomas that all funding for additional ACIC manpower be handled in the same manner as is presently employed in funding ACIC support to currently operating NRO projects, i.e., through DIAMC funding. If manpower funding is accomplished in that manner, direct program funding by MOL would be required only to develop and procure program-peculiar equipment and software necessary to produce the cues and cue-related materials. ACIC estimates that this can be accomplished for a total of approximately \$1.5 million, equally allocated over FY's 1969, 1970, and 1971.

Attached is a study which develops in more detail our current status and our considerations for effort needed in the future. I believe we are now ready to commit to the additional effort I have described. I would appreciate your views on this matter. Should you agree with my conclusions, I will ask Col. R. S. Buchanan to assist you in the preparation of any necessary correspondence or documentation needed to get these activities under way.

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Special Materials
Support for MOL-
DORIAN Manned
Missions

J. S. Blyman
J. S. BLYMAN
Major General, USAF
Deputy Director, MOL

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