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JAN 19 1966

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BOOK MULTI SINGLE

TYPE MSG

PRECEDENCE  
ACTION PRIORITY

INFO

FROM: OSAF

TO: AFSC ANDREWS AFB

SSD LOS ANGELES STATION

AFETR PATRICK AFB

~~CONFIDENTIAL~~

79003

CONFIDENTIAL SAF-OI \_\_\_\_\_ JANUARY 1966 AFSC

(SCE).. SSD(SSE).. AFETR(ETN). OASD/PA(DIR P&P).

SUBJECT: INFORMATION POLICY REGARDING LM&SS SYSTEM DEVELOPMENT.

I. BACKGROUND FACTS:

A. EARLY IN THE DEVELOPMENT OF THE APOLLO MANNED LUNAR LANDING PROGRAM, IT WAS DECIDED THAT IN ADDITION TO MOON LANDING SITE CERTIFICATION EFFORTS SUCH AS SURVEYOR AND LUNAR ORBITER, IT WOULD BE PRUDENT TO DEVELOP AN ADDITIONAL BACK-UP CAPABILITY. THIS CAPABILITY WAS TO BE DESIGNED SO THAT, IF NOT NEEDED FOR SITE CERTIFICATION, IT COULD BE EMPLOYED AS A SCIENTIFIC SURVEY AND MAPPING TOOL FOR LUNAR EXPLORATION.

SPECIAL INSTRUCTIONS

SAFSS

SAFSL

OASD/PA *101*

DATE	TIME
27	5:00
MONTH	YEAR
JAN	1967
PAGE NO.	NO. OF PAGES
17	7

TYPED NAME AND TITLE

PHONE

RELEASER

SIGNATURE

Major Robert Herman  
SAF-SL MOL PROJECT OFFICER  
OFFICE OF INFORMATION  
SECRETARY AIR FORCE

50961

TYPED (or stamped) NAME AND TITLE

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REGRADE INSTRUCTIONS

FROM:

OSAF

B. NASA REQUESTED ASSISTANCE FROM DOD IN DESIGNING AND PROCURING AN AUTOMATED CAMERA SYSTEM FOR THE LM&SS MISSION BECAUSE OF DOD'S EXTENSIVE EXPERIENCE IN THE DEVELOPMENT OF AERIAL PHOTOGRAPHIC SYSTEMS. FOLLOWING THE PATTERN OF OTHER JOINT EFFORTS, NASA AND DOD CONCLUDED AN AGREEMENT FOR THE ACQUISITION OF THE LM&SS CAMERA SYSTEM.

C. NASA, DOD AND VARIOUS CONTRACTORS COMPLETED STUDIES TO DETERMINE SUCH THINGS AS PERFORMANCE CHARACTERISTICS, WEIGHT LIMITATIONS AND OTHER DETAILS FOR THE LM&SS SYSTEM. THE SYSTEM IS NOW BEING BUILT BY EASTMAN KODAK COMPANY AND THE LOCKHEED MISSILES AND SPACE COMPANY UNDER THE SUPERVISION OF THE SPACE SYSTEMS DIVISION OF THE AIR FORCE SYSTEMS COMMAND. PRESENT PLANS CALL FOR THE AIR FORCE TO DELIBER THE SYSTEM TO NASA IN MID-1968.

2. INFORMATION POLICY AND PROCEDURES:

A. PUBLIC INFORMATION ACTIVITIES RELATING TO THE DEVELOPMENT, TESTING AND USE OF THE LM&SS SYSTEM DEVELOPED FOR NASA BY DOD WILL BE PLANNED AND CARRIED OUT BASICALLY IN ACCORDANCE WITH NASA INFORMATION POLICY AND PROCEDURES. HOWEVER, NATIONAL SECURITY CONSIDERA-

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FROM:  
CSAF

TIONS REQUIRE THAT THE GUIDANCE AND PROCEDURES OUTLINED BELOW BE FOLLOWED BY ALL CONCERNED.

B. RESPONSES TO QUERIES SHOULD BE BASED ON THE INFORMATION CONTAINED IN PARA ONE ABOVE OR PARA THREE BELOW.

C. ANY STATEMENTS RELATING TO THE LM&SS SYSTEM WILL REFLECT CLEARLY THE LIMITED ROLE OF DOD IN THE PROJECT AS STATED IN THE NASA/DOD AGREEMENT OF APRIL 20, 1964: "THE AIR FORCE AS RESPONSIBLE DOD AGENCY WILL PROVIDE TECHNICAL ASSISTANCE TO NASA BY DEVELOPING AND PROVIDING MANNED LUNAR MAPPING AND SURVEY FLIGHT EQUIPMENT TO MEET NASA'S REQUIREMENTS." HOWEVER, NO ATTEMPT SHOULD BE MADE TO WITHHOLD UNCLASSIFIED INFORMATION ON THE ASSISTANCE PROVIDED BY THE AF IN DEVELOPING THE SYSTEM. SUCH REFERENCES SHOULD BE TREATED AS ANOTHER EXAMPLE OF DOD ASSISTANCE TO NASA IN NATIONAL SPACE EXPLORATION PROGRAMS.

D. RESPONSES TO QUERIES WILL REFLECT THE FACT THAT THE EQUIPMENT IS NASA'S AND THAT IT WAS DEVELOPED STRICTLY FOR NASA'S USE AND OPERATION IN MANNED LUNAR LANDING AND/OR LUNAR EXPLORATION PROGRAMS. ABSOLUTELY NO SPECULATION WILL BE MADE REGARDING POTENTIAL DOD USE OF SUCH EQUIPMENT.

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FROM:

OSAF

E. DOD OFFICIALS WILL NOT MAKE PUBLIC STATEMENTS REGARDING PLANNED USE OF THE LM&SS EQUIPMENT BY NASA, EXCEPT IN THE CONTEXT OF THE GENERAL REQUIREMENTS NASA PROVIDED FOR THE DESIGN AND DEVELOPMENT OF THE EQUIPMENT. QUERIES REGARDING FLIGHT TESTING, MISSION PLANNING, RELEASE OF PHOTOGRAPHY, ETC. WILL BE REFERRED TO NASA. QUERIES RECEIVED BY AF OFFICIALS ON DOD INVOLVEMENT WHICH CANNOT BE ANSWERED WITHIN THE CONTEXT OF THE MATERIAL IN PARA ONE ABOVE OR PARA THREE BELOW, WILL BE REFERRED TO DOD.

F. AF OFFICIALS OR THEIR CONTRACTORS WILL NOT VOLUNTEER STATEMENTS, BUT WILL RESPOND TO QUERY ONLY.

G. LM&SS CONTRACTORS WILL SUBMIT ALL PROPOSED PUBLIC INFORMATION MATERIALS THROUGH THE AIR FORCE (SSD) TO DOD FOR SECURITY AND POLICY REVIEW PRIOR TO RELEASE. DOD WILL FURTHER COORDINATE SUCH MATERIALS WITH NASA.

H. LM&SS CAMERA EQUIPMENT WILL NOT BE PUBLICLY DISPLAYED, AND PICTURES OR DRAWINGS OF THE EQUIPMENT WILL NOT BE RELEASED.

I. INFORMATION REGARDING LM&SS CAMERA SYSTEM DESIGN, SPECIFICATIONS AND CAPABILITIES WILL NOT BE RELEASED.

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FROM:

OSAF

3. ANSWERS TO POTENTIAL QUERIES:

A. QUESTION: WHY WAS THE APOLLO M&S DEVELOPMENT CONDUCTED BY THE DOD?

ANSWER: NASA RELIED HEAVILY ON DOD CONSULTATION FOR BOTH THE LUNAR ORBITER AND THE APOLLO M&S SYSTEMS. THE MATTER OF AERIAL PHOTOGRAPHIC SYSTEMS HAS, OF COURSE, BEEN A TECHNOLOGY PURSUED BY THE DOD SINCE THE EARLY DAYS OF AVIATION, AND THEY HAVE GREATLY ADVANCED THE STATE-OF-ART WITH RESPECT TO AERIAL PHOTOGRAPHIC SYSTEMS. UNDER APOLLO M&S, IT WAS LARGELY A DECISION INVOLVING HOW BEST, IN TERMS OF MANAGEMENT, TO APPLY THE LONG CONTINUITY OF THE DOD PEOPLE IN THIS FIELD, TO THIS VERY EXACTING MISSION.

B. QUESTION: IS THIS THE SAMOS CAMERA?

ANSWER: THIS CAMERA WAS DEVELOPED SPECIFICALLY FOR THE APOLLO LUNAR MISSION. (DOD POLICY IS NOT TO COMMENT ON THIS FORMER PROJECT NAME OR ANY SPECULATION ABOUT IT.)

C. QUESTION: DO YOU PLAN TO TEST THE EQUIPMENT IN EARTH ORBIT?

ANSWER: (REFER TO NASA.)

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FROM:

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D. QUESTION: WHO IN THE FOD IS DOING THIS WORK?

ANSWER: THE USAF UNDER THE AF SYSTEMS COMMAND AT THE SPACE SYSTEMS DIVISION, WHICH HAS PROVIDED SUPPORT TO NASA ON OTHER SPACE PROJECTS.

E. QUESTION: WHO ARE THE CONTRACTORS WORKING WITH THE AIR FORCE ON THE PROJECT?

ANSWER: LOCKHEED MISSILE AND SPACE COMPANY IS THE PRIME CONTRACTOR, BUILDING THE PAYLOAD MODULE AND INTEGRATING THE CAMERA INTO THE PAYLOAD MODULE. EASTMAN KODAK IS BUILDING THE CAMERA SYSTEM.

F. QUESTION: CAN WE SEE THE EQUIPMENT? IF NOT, WHY?

ANSWER: NO, IT INVOLVES CLASSIFIED TECHNOLOGY WHICH HAS POTENTIAL MILITARY APPLICATION.

G. QUESTION: SINCE THE EQUIPMENTS ARE CLASSIFIED, WILL THE RESULTANT PHOTOGRAPHY BE OKAY FOR PUBLICATION?

ANSWER: (REFER TO NASA)

H. QUESTION: DIDN'T IMSC ALSO WORK ON THE SAMOS PROGRAM?

ANSWER: (NO COMMENT.)

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FROM:

OSAF

I. QUESTION: IF THE LUNAR MAPPING AND SURVEY MISSION IS SUCCESSFUL, IS THE SYSTEM ADAPTABLE TO AN EARTH MAPPING OR RECONNAISSANCE MISSION?

ANSWER: THIS SYSTEM HAS BEEN DESIGNED TO MEET SPECIFIC REQUIREMENTS OF THE APOLLO PROGRAM. SIMILAR REQUIREMENTS HAVE NOT BEEN ESTABLISHED FOR EARTH APPLICATION: SCP-4

END

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~~181~~ NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.



OFFICE OF THE DIRECTOR

27 JAN 1967

MEMORANDUM FOR THE ASSISTANT SECRETARY OF THE NAVY (R&D)

SUBJECT: NASA/NAVOCEANO Spacecraft Oceanography Project  
Annual Report

This is in response to your memorandum of December 6, 1966 which requested policy review of a NAVOCEANO Report, "Spacecraft Oceanography Project."

The subject report has been reviewed. This document is consistent with my March 9, 1966 policy approval of the detailed plan for specific phases of the work thus far undertaken by NAVOCEANO for NASA. There is therefore no objection to releasing this report to NASA.

In my memorandum to you of February 23, 1966 (BYE-52132), I called attention to the existing DOD constraints on activities related to satellite reconnaissance which would inhibit future NAVOCEANO work on study, analysis, design, experimentation or development of satellite-borne sensors and related equipment. Subsequently, on October 11, 1966 my memorandum to the Secretary of the Navy (BYE-52740), "DOD Participation in NASA Earth Sensing Programs," outlined policies established by the Deputy Secretary of Defense for all DOD agencies with respect to NASA earth sensing programs. Under these policies DOD personnel are prohibited from participation in co-sponsorship of or endorsement of such NASA programs. However, DOD agencies and personnel are permitted to participate in NASA aircraft-borne earth sensing programs, but with special care to insure non-identification with any satellite follow-on programs.

Under the above quoted provisions of present DOD policies, NAVOCEANO will be able to continue to cooperate with NASA in the areas of its specialized competence including definition of

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oceanographic phenomena and characteristics which are susceptible to observation and measurement, assessment of the relative scientific value of various measurements in terms of their nature, frequency and quality, and experimentation from aircraft to support these objectives as well as to obtain new oceanographic data. However, in order to comply with current DOD policies, it will be necessary that NAVOCEANO make suitable arrangements with NASA to insure that these and related activities do not result in designation of NAVOCEANO as a participant, experimenter, co-sponsor or endorser of NASA space-borne earth sensing programs.

*Alexander H. Flax*

Alexander H. Flax

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



OFFICE OF THE ADMINISTRATOR

DEC 22 1966

Honorable Alexander H. Flax  
Assistant Secretary of the Air Force  
(Research and Development)  
The Pentagon  
Washington, D. C. 20330

Dear Al:

NASA is in urgent need of continued technical assistance in its Multi-spectral Photographic Experiment, one of the major elements of our Earth Resources Survey Program, and I am making this request to you in accordance with the final paragraph of the "GUIDELINES FOR DOD PARTICIPATION IN NASA EARTH SENSING PROGRAMS," a copy of which you forwarded to me as an attachment to your TOP SECRET (BYEMAN) letter to me of September 30, 1966.

As you know, NASA attaches great importance to this experiment. A number of eminent scientists are participating in it as experimenters, and the experiment is endorsed by the Departments of Agriculture, Commerce, and Interior, as well as other prospective user agencies both in and out of government. For the last fifteen months, Mr. Donald Orr, a civilian employee of GIMRADA, has been acting as the technical coordinator representing the experimenters. Mr. Orr was originally recommended for this position by the Corps of Engineers, and since his initial employment with the Corps about fifteen months ago, has been occupying a position funded by NASA. It was our intention to designate him as Principal Investigator, but we were recently advised by a member of your staff that under the provisions of your TOP SECRET (BYEMAN) directive to the Military Services dated October 11, 1966, Mr. Orr could no longer perform a significant role in this NASA experiment.

Informal discussions as to possible solutions to the problem which this action poses have been held with Lt. General Cassidy and Maj. General Stewart.

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We feel that the success of this experiment and the continued participation of some of the experimenters will depend in large degree upon the availability of Mr. Orr to serve as Principal Investigator, since we have been unable to find any other person who can match Mr. Orr's technical background and experience in this field. Mr. Orr has indicated that, because of his scientific interest, he would like to continue with this project if it were determined to be in the national interest that he do so. Furthermore, we recognize that it is the desire of the DOD to assist NASA in this important work to the maximum extent compatible with security restrictions, which we fully understand. In light of these considerations, it appears to us that there are three possible arrangements which would meet our requirements. In order of preference from NASA's viewpoint, these are listed as follows:

- (a) As an exception to the GUIDELINES referred to above, the DOD authorize Mr. Donald Orr to act as Principal Investigator as an individual, while continuing in his NASA-funded position with GIMRADA.
- (b) The DOD assign Mr. Orr to NASA as a detailee for a normal three-year tour of duty under arrangements similar to those under which several NASA civilian employees are now detailed to the DOD.
- (c) The DOD concur in an outright transfer of Mr. Orr to NASA.

Since we feel an urgent need to continue the work on the Multispectral Photographic Experiment without interruption, we hope to have your early concurrence in one of these alternatives.

With much appreciation for your past assistance in this area,

Sincerely,



Robert C. Seamans, Jr.  
Deputy Administrator

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NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.



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DIRECTOR

October 11, 1966

MEMORANDUM FOR THE SECRETARY OF THE ARMY  
THE SECRETARY OF THE NAVY  
THE CHIEF OF STAFF, USAF

SUBJECT: DOD Participation in NASA Earth Sensing Programs

We have recently reviewed and coordinated on a proposed NASA program to develop and operate a Multiband Synoptic Photographic Experiment (also known as the Multispectral Experiment). Review of the proposed NASA program was carried out in consultation with DDR&E and was conducted under policies established by Deputy Secretary of Defense memorandum, "DOD Needs for Earth Sensing from Satellites," dated August 30, 1965.

The purpose of this letter is to advise you of our position on the Multispectral Experiment, and to request that you direct action to insure that DOD elements and personnel responsible to you are informed of the governing policies. The DOD position on this program as stated in my reply to NASA (Attachment 1) was specifically approved by Mr. Vance with respect to these policies and related questions, and is summarized as follows:

(1) DOD personnel will not make oral or written statements implying current or intended DOD endorsement of, direct participation in, or co-sponsorship of NASA satellite programs such as the Multispectral Experiment which can be claimed to have reconnaissance implications. The established ESSA/NASA meteorological satellite programs are excepted, so long as DOD involvement is limited to meteorological matters. DOD support of NASA not peculiar to an earth sensing mission, such as launch, range, and tracking station services, is not precluded.

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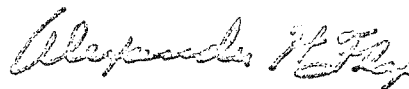
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(2) The National Reconnaissance Office has the sole responsibility for all DOD activities in satellite reconnaissance, and no open acknowledgment of such activity, either current or planned, is authorized.

(3) DOD agencies and personnel will not be authorized to participate in open NASA space experiments involving optical sensors.

(4) DOD agencies and personnel will be authorized to participate in and provide logistical and technical support to NASA aircraft-borne earth sensing programs in accordance with approved DOD procedures and DOD/NASA agreements, but such participation shall not extend to NASA satellite programs which may follow, and special care must be taken to insure that DOD is not associated with such follow-ons to aircraft programs in any public announcements.

It is essential that these policies be disseminated promptly to the many DOD agencies having interests in earth sensing programs. To assist you in releasing this information outside the BYEMAN system, I have attached a set of guidelines having TOP SECRET classification.



Alexander H. Flax

Attachments

cc: Dr. Foster  
Lt. Gen. Carroll  
Secretary Sylvester

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WASHINGTON, D.C.



OFFICE OF THE DIRECTOR

September 13, 1966

Dear Bob:

This is in response to your letter of June 23, 1966, regarding NASA's proposed Multispectral Photographic Experiment.

In accordance with the existing DOD/CIA-NASA agreement and the supplement thereto, this Experiment does not involve sensors of reconnaissance quality and I see no objection from the standpoint of the NRO to NASA proceeding with it as described in the attachment to your letter.

Arrangements for the actual conduct of the Experiment (particularly with regard to any orbits involving overflight of denied areas) as well as the exploitation of the camera products are, of course, to be worked out in accordance with Recommendation No. 1 of the NSAM 156 Ad Hoc Committee July 11, 1966 Report.

However, since the question of DOD participation in the Multispectral Experiment has implications extending beyond the NRO to the Department of Defense at large, I have discussed the question with the appropriate officials in the Office of the Secretary of Defense.

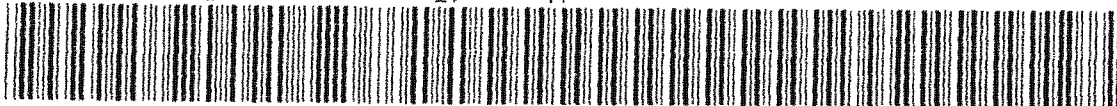
While there is, of course, intense DOD interest in scientific advances in such fields as geography, oceanography, and the environmental sciences generally, we believe that new satellite-borne sensor systems are neither the only way nor necessarily the best way to collect much of the pertinent data. When weighed against possible international sensitivity, the benefits which could accrue are not sufficient to warrant

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and participation by scientifically-oriented agencies of the DOD in activities which can be claimed to have reconnaissance implications. With respect to the important military applications of satellite reconnaissance, the NRO has the sole responsibility for all DOD activities in this field and no open acknowledgment of such activity, either current or planned, is authorized.

Our studies have shown that the particular military advantages of satellite reconnaissance arise from its ability over foreign territories denied to aircraft overflight by heavy defenses or a political inhibition. Otherwise most military reconnaissance is best performed from aircraft. This does not involve high quality sensors and DOD aircraft sensor activity is not limited to the NRO. We are, therefore, interested in the aircraft-borne sensor experiments which NASA plans to conduct and appropriate DOD agencies will be authorized to participate and to provide logistical and technical support in accordance with approved DOD procedures and DOD/NASA agreements if that is appropriate. However, DOD agencies and personnel will not be authorized to participate in open NASA space experiments with optical sensors. This is, of course, not intended to preclude DOD support not peculiar to the earth sensing program such as launch, range, and tracking station services.

In light of the above, we request that you delete from the Multispectral Experiment brochures any reference to or annotation of DOD endorsement, direct participation, or co-sponsorship (i.e., letters such as those included from the U. S. Oceanographic Office, the Office of Naval Research, the Army Cold Regions Research Laboratory, etc.).

Sincerely,



Alexander H. Flax

Dr. Robert C. Seamans, Jr.  
Deputy Administrator  
National Aeronautics & Space Administration  
Washington, D. C.

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GUIDELINES FOR DOD PARTICIPATION  
IN  
NASA EARTH SENSING PROGRAMS

I. POLICY

The Deputy Secretary of Defense has directed all agencies of the DOD to deal exclusively with the Assistant Secretary of the Air Force (R&D) on matters concerning satellite-borne image forming earth sensors. Direct contacts with the NASA, or statements, either oral or written, to persons outside the DOD which could be interpreted as indicating endorsement or co-sponsorship of, or participation in, NASA programs involving such sensors, are specifically prohibited. The established ESSA/NASA meteorological satellite programs, TIROS, NIMBUS, TOMS and KOMSS, are excepted from this prohibition.

II. EXPLANATION

International relations of the United States and previous public statements by this Government require that no action be taken by any member of the Department of Defense which would support in any way a claim that NASA satellite programs are directly supporting military objectives. Further, the

Attachment 2

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Department of Defense' must examine any requests made of other Department agencies to insure that they cannot be more economical-ly than within existing and planned DOD resources.

When of the data desired by DOD agencies from NASA can be obtained more rapidly, at less cost, and with higher accuracy by using existing DOD aircraft as sensor platforms. All agencies are urged to exploit this resource to meet valid requirements.

RECOMMENDATION

- a. DOD agencies and personnel should not levy requirements on NASA for data, either raw or processed, which are to be obtained from satellite-borne image forming earth sensors, or
- b. Indicate in any way, actual or intended DOD participation in, or co-sponsorship of, or endorsement of NASA satellite programs employing image forming earth sensors (NASA/NASA meteorological satellite programs are excepted).
- c. DOD agencies should submit validated requirements for data to be obtained from satellite-borne earth sensors directly to the Assistant Secretary of the Air Force (R&D).

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C. DOD personnel may attend technical meetings at which plans or results of NASA satellite activities are discussed provided paragraph 3A, above, is not violated.

D. DOD agencies and personnel may participate in and provide logistical and technical support to NASA aircraft-borne earth sensing programs in accordance with approved DOD procedures and DOD/NASA agreements.

E. DOD support not peculiar to the earth sensing mission such as launch, range, and tracking services may be provided to NASA satellite earth sensing programs in accordance with approved DOD procedures and DOD/NASA agreements.

F. When NASA requests participation of a DOD agency or individual in a technical consulting or technical support capacity relative to the satellite earth sensing program, such request should be forwarded directly to the Assistant Secretary of the Air Force (R&D) for guidance as to the appropriate response and approval.

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