

#107

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DECLASSIFIED IN FULL  
Authority: EO 13526  
Chief, Records & Declass Div, WHS  
Date: MAR 27 2014

77-2734

209-SEASAT  
AUG 1977

MEMORANDUM FOR SECRETARY OF DEFENSE

SUBJECT: Protection of Future Environmental Satellite Systems  
Against Unauthorized Use (U) - ACTION MEMORANDUM

You recommended on 15 April 1977 that the SEASAT-A gravity data be unclassified. President Carter upheld your recommendation on 29 April 1977 and directed that the data be collected and distributed openly. However, that recommendation was made in the particular context of SEASAT-A. We should not let it be precedent setting for more general use. I believe we should establish a position with NASA which maintains an option for appropriate protection of civil environmental satellite systems of the future such as SEASAT-B and operational oceanographic satellites now being considered by a joint DoD/NASA Ad Hoc Committee. By so doing, the Presidential decision on SEASAT-A will not be considered applicable to future satellite systems. A proposed letter to NASA has been prepared which indicates this position and requests that options for encryption or other suitable means of protection be maintained pending a Presidential decision on the national space policy.

(U) Recommendation: That you sign the letter to NASA.

Signed  
Gerald P. Dinneen  
William J. Perry *for*

Attachment  
Suggested Reply to NASA

5 U.S.C. § 552(b)(6)

DD(S+SS) [Redacted]

22 JUL 1977

Prepared by H. L. Bixby, Captain, USN, X56188/7/20/77

Classified by DDR&E  
EXEMPT FROM AUTOMATIC DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652  
DECLASSIFY ON 31 DEC 2007

Office of the Secretary of Defense SU.S. 552  
Chief, RDD, ESD, WHS  
Date: 27 MAR 2014 Authority: EO 13526  
Declassify: X Deny in Full: \_\_\_\_\_  
Declassify in Part: \_\_\_\_\_  
Reason: SU.S. 552(b)(6)  
MDR: 13-M-4706

DECLASSIFIED  
Authority: EO 13526  
Date: 31 DEC 2007  
Chief, Records & Declass WHS

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13-M-4706

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Dr. Robert A. Frosch  
Administrator  
National Aeronautics and  
Space Administration  
Washington, D. C. 20546

Dear Dr. Frosch:

The recent SEASAT-A decision with respect to the classification of gravity data left unanswered the question of encryption for later satellite systems. Policy on this may come up in the decisions on PRM-23 but will more likely arise in the implementation of PRM-23. I feel that it is timely to consider future systems and particularly to maintain the option for protection so that later decisions to provide encryption are not precluded. I propose that NASA, in current planning efforts for future systems, maintain the option for command and data link protection until the general policy issue has been completely resolved and disseminated. Specific recommendations for the follow-on system should be made by our joint Ad Hoc Committee on SEASAT within the framework of general policy established by the President as the result of PRM-23 deliberations.

(U) I would be pleased to receive your comments on my proposal.

Sincerely,

OSD 5 U.S.C. § 552(b)(6)

S&AS/Capt Bixby/██████████/56188/7/29/77

ROSS N. WILLIAMS  
DM, U.S. NAVY

29 JUL 1977

OSD  
DDR&E  
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Classified by ██████████ DDR&E  
EXEMPT FROM AUTOMATIC DOWNGRADING AND  
DECLASSIFICATION  
DECLASSIFY ON 31 DEC 2007

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Date: MAR 27 2014

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Authority: EO 13526  
Date: 03/27/2014  
Chief, Records & Dec WHS

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Administrator  
National Aeronautics and  
Space Administration  
Washington, D. C. 20546

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S&AS/CaptBixby/██████████/56188/7/29/77

os) 5 U.S.C. § 552(b)(6)

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DECLASSIFICATION SCHEDULE OF  
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CHIEF, RECORDS DIVISION, WHS

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OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING  
WASHINGTON, D. C. 20301

COVERING BRIEF

TO: DIRECTOR, DEFENSE RESEARCH AND ENGINEERING  
FROM: DEPUTY DIRECTOR, STRATEGIC AND SPACE SYSTEMS 22 JUL 1977

PROBLEM: (S) Convey a DOD position to NASA for maintaining the option to provide appropriate protection for future satellite systems against unauthorized use.

DISCUSSION: (S) The SEASAT-A issue was resolved by the President in favor of collection and open release of the data. This decision agreed with the position taken by the Secretary of Defense. I do not feel that this decision should be precedent setting for all civil environmental satellite systems of the future. The general space policy is being formulated under the auspices of Presidential Review Memorandum #23. Until the Presidential decision is disseminated, it is important that NASA, in planning for future environmental satellite systems, maintain options for protection against unauthorized use. Encryption of data links is a viable option but lower order schemes may also be acceptable to provide the desired protection.

IMPLEMENTATION: (S) An Action Memorandum has been prepared for your signature to the Secretary of Defense which transmits the proposed letter to Dr. Frosch, Administrator, NASA. The letter requests that NASA maintain the option pending the final Presidential decision on PRM #23. Alternatives are not presented for Secretary of Defense consideration.

RECOMMENDATION: (U) That you sign the Action Memorandum to the Secretary of Defense.

CONCURRENCE: (U)

Director, Defense Mapping Agency (See Memo, 16 Jun 77)

Director, Joint Chiefs of Staff (See Memo, 27 Jun 77)

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Authority: EO 13526  
Chief, Records & Declass Div, WHS  
Date: MAR 27 2014

Classified by DDR&E  
[REDACTED]  
EXEMPT FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION SCHEDULES  
[REDACTED]  
DECLASSIFY ON 31 Dec 2000

DECLASSIFIED  
AUTHORITY: EO 13526  
DATE: 31 DEC 2000  
CLASSIFIED BY: [REDACTED] WHS

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DEFENSE MAPPING AGENCY  
BUILDING 78, U.S. NAVAL OBSERVATORY  
WASHINGTON, D.C. 20305

ST

16 June 1977

MEMORANDUM FOR THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING

ATTN: RADM Ross Williams

SUBJECT: Appropriate Means for Protection of Satellite Systems

DMA concurs with your proposed letter to the Acting Administrator  
of NASA relative to protection of satellite systems.

FOR THE DIRECTOR:

A handwritten signature in cursive script, appearing to read "Mark M. Macomber".

MARK M. MACOMBER  
Acting Deputy Director for  
Systems and Techniques

Page determined to be Unclassified  
Reviewed Chief, RDD, WHS  
IAW EO 13526, Section 3.5  
Date: **MAR 27 2014**





~~CONFIDENTIAL~~  
THE JOINT CHIEFS OF STAFF  
WASHINGTON, D.C. 20301

MJCS-196-77  
27 June 1977

MEMORANDUM FOR THE ACTING DEPUTY DIRECTOR, STRATEGIC  
AND SPACE SYSTEMS, OFFICE OF THE DIRECTOR  
OF DEFENSE RESEARCH AND ENGINEERING

Subject: Appropriate Means for Protection of Satellite  
Systems (U)

1. (U) Reference your memorandum, 14 June 1977, subject as above, which requested comments on a proposed letter to NASA which provided the Department of Defense position on future satellite systems such as SEASAT-B.
2. ~~(U)~~ The proposed memorandum to NASA is concurred in provided the following sentence is revised.

Page 2. Change to read:

"Barring this, lower order means ~~should~~ could be considered including such concepts as suitable telemetry antennas to narrow the beam pattern relayed to central readout sites or extraneous data bits in the data transmission streams."

REASON: The future NASA systems will probably be designed to use satellite data relay techniques. Narrow beam patterns in themselves do not necessarily restrict data access unless incorporated in a satellite data relay system.

For the Joint Chiefs of Staff:

DECLASSIFIED IN FULL  
Authority: EO 13526  
Chief, Records & Declass Div, WHS  
Date: MAR 27 2014

C. LeVAN  
Lieutenant General, USA  
Director for Operations

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~~Joint Staff~~  
~~SECRET~~  
~~SCHEDULE 1~~  
~~DECLASSIFIED AT TWO~~  
~~1983~~

77-2734

2 AUG 1977

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Signed  
Gerald P. Dinneen *for*  
William J. Perry

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Suggested Reply to NASA

Prepared by M. L. Rixby, Captain, USN, K56133/7/20/77

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
31 2007

DECLASSIFIED IN FULL  
Authority: EO 13526  
Chief, Records & Declass Div, WHS  
Date: MAR 27 2014

WHS  
Date: \_\_\_\_\_  
WHS

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COVERING BRIEF

TO: DIRECTOR, DEFENSE RESEARCH AND ENGINEERING

FROM: DEPUTY DIRECTOR, STRATEGIC AND SPACE SYSTEMS 22 JUL 1977

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CONCURRENCE: (U)

OSD 5 U.S.C. § 552(b)(6)

Director, Defense Mapping Agency (See Memo, 16 Jun 77)

Director, Joint Chiefs of Staff (See Memo, 27 Jun 77)

[REDACTED] 27 Jun 77  
Rewritten RADM Williams/5 Jul 77  
OAD (S&AS) / [REDACTED]

AD (S&AS) [REDACTED]

DD (S&SS) [REDACTED]

Classified by [REDACTED]  
EXEMPTED FROM AUTOMATIC DOWNGRADING AND  
DECLASSIFICATION ON 31 Dec 2007

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PROCESSED  
ALIGNED  
DATE  
CLASSIFICATION & REC WHS

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