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DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, D.C. 20350

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17 AUG 1970

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MEMORANDUM FOR THE DIRECTOR, NATIONAL RECONNAISSANCE OFFICE

Subj: Proposal for POPPY Support to Ocean Surveillance

Ref: (a) NRO verbal requirement, subject as above

Encl: (1) POPPY Support to the Ocean Surveillance Requirement

1. In accordance with reference (a), various alternatives, including the alternative submitted by the Director, National Security Agency, were examined in context with the proposal forwarded to the Deputy Secretary of Defense by the Secretary of the Navy on 11 June 1970. The enclosed study is a recommended alternative to the Secretary of the Navy proposal, and is forwarded herewith.

F. J. HARLFINGER, II  
Director, Program "C"

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Director, NSA  
Director, DIA  
Director, NRL  
COMNAVSECGRU

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18 AUG 1970

MEMORANDUM FOR THE DIRECTOR, NATIONAL RECONNAISSANCE OFFICE

Subj: Navy Ocean Surveillance Requirement

1. The United States Intelligence Board recently approved a statement of the requirement for ocean surveillance to be performed by SIGINT Satellite systems. This statement of requirement is general in nature, and does not delineate fully the requirement, which is predicated by the necessity of providing Command with information which is essential to the successful prosecution of its missions. The timely collection, processing and dissemination of ocean surveillance information provides Command with strategic warning through indications of changes in normal patterns of activity, and provides information necessary for planning and conducting naval operations. In order to assist the National Reconnaissance Office in planning for support of this requirement, the following additional detail is provided.

2. The Ocean Surveillance requirement is bounded by limits which dictate locating and reporting on the position of threat emitters within [redacted]

and reporting of all shipborne emitters within [redacted] to an accuracy of [redacted]. The requirement for timeliness of reporting is governed by an interplay of four variables; viz., proximity of own forces to area of interest, geographic area, political climate, and platform.

3. The following weighting factors for these variables are provided to define the requirement:

[Large redacted area]

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c. Political Climate: [redacted]

d. Platform: [redacted]

Specifically, for any combination of the four variables with a total factor of 0.8 or greater, the most stringent locational accuracy and reporting timeliness is required. For any combination of the four variables totaling 0.3 or less, the least stringent locational accuracy and reporting timeliness is required.

(See Annex A for detailed requirements for locational accuracies and reporting timeliness required for all value combinations.)

4. The probability of intercept, given that an emitter is radiating, varies with the situation. Generally, the following probabilities define the requirement:

<u>Probability of Intercept</u>	<u>Situation</u>
99.7%	Missile equipped unit is capable of launching strike against friendly forces.
95.4%	Conventionally armed naval force within 500 nautical miles of friendly forces
68.3%	For all other cases

5. The requirement specified above is applicable for collection by SIGINT Satellite systems, and is representative of the ocean surveillance requirement for space systems. As more information is obtained, and state of the art advances are made, the requirement will become more definitive.

F. J. HARLFINGER, II  
ASSISTANT CHIEF OF NAVAL OPERATIONS  
(INTELLIGENCE)

ANNEX A - Locational Accuracy and Reporting  
Timeliness Criteria

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