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IN REPLY REFER TO NIC-230/kfp BYE-65625/69

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HEREIS VIO BYEMAN

SECRET RARPOP BYEMAN CONTROL SYSTEM Control System

MEMORANDUM

From: Director, Program C To: > NRL (Mr. R. Mayo) NEG (LT A. Michaels)

Subj: Navy Requirements Letter submitted to SORS

Encl: (1) NAVINTCOM-333 memo of 26 Feb 1969

- 1. Enclosure (1) is LCDR COKEFAIR's memo concerning the introduction of the requirements letter at SORS.
- 2. As LCDR CORETAIR indicated, a briefing of SORS is necessary to document our achievements and goals. The SORS has asked that we brief them on 19 March.
- It is requested that MRL and NSG work up a joint briefing on the successes and accomplishments of the exercises run at briefing should specifically answer the questions in enclosure (1) and include any other information believed relevant. Op-092 will address the program goals and concepts of using the ELINT satellites in Ocean Surveillance, and make the introductory remarks of the coordinated Op-092/NRL/NSG briefing.
- 4.4 The briefing will probably be presented to the SIGINT Committee at a later date.
- 5. It is recommended that Op-092/NRL/NSG meet on 11 or 12 March for a dry run on the coordinated briefing

Very respectfully,

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TOP SECRET PARPOP BYEMAN CONTROL SYSTEM

TR 164-19

NAVSO 5216/5 (REV. 11-67) 5/N-0104-904-1762 (REV. 11-67)

DEPARTMENT OF THE NAVY

Memorandum

SECRE

FROM: NAVINTCOM-333

TO : NAVINTCOM-33

1411 1111 0011-33

NIC-78

NAVINTCOM-333/mrs
DATE: 26 February 1969

SUBJ : Ocean Surveillance (U)

REF: (a) BYE 65614/69 dtd 8 Feb 1969 (SAO)

- 1. (S) Reference (a) was presented to the Chairman and the membership of the SORS at the meeting 12 February 1969. It was not discussed at the meeting. At the meeting 19 February the subject, although not on the agenda, was briefly discussed. The following points were brought up:
- a. Successes with the initial experiment. The general feeling of the membership was that the successes described in the reference were "broad brushed" and should be further delineated. This was probably due to the fact that they had a difficult time believing the CEP's indicated and the rapid readout. The SAFSS member stated that he was unaware of the degree of success with the experiment as stated and that the NRL should provide the SAFSS an evaluation of the program. SAFSS believed the concept should be thoroughly studied in joint Navy SAFSS discussions before being placed on the SORS agenda for consideration. SAFSS's belief was that the successes described were "lucky fallout" and did not present a form case for establishing a requirement to use the system for ocean surveillance.
- b. What does the Navy really expect to achieve? This question was posed by the Chairman. It appears that doubt exists as to the feasibility of the concept. Without the benefit of correlation (visual, photo, etc.) doubt exists in some minds that the system could provide the Navy with the desired information. The concept has been studied by various agencies and the results have been inconclusive since any realignment or repairs to a radar would change its characteristics to the extent that reliability of emitter source would be seriously degraded.
- c. <u>Conflicts with other programs</u>. Reference (a) states that ocean surveillance tasking would not conflict with ABM tasking. This elicited the comment that other ELINT tasks besides ABM are included in the various programs and must also be considered.
- 2. (U) To get the program rolling I recommend that after Navy SAFSS discussions, an evaluation of the initial experiment be prepared including all facts available to support the Navy requirement. Following, this arrangement can be made for a Navy presentation to the SORS.

GROUP 3
Downgraded at 12 year
intervals; not
automatically declassified

Very respectfully.

J. K. COKEFAIR

LCDR.

SECRET, RFI

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TOP **SECRET**

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NRL					

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BYEMAN

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WARNING

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TOP SECRET

NRL B-0008-69

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Navy Member SIGINT Overhead Reconnaissance Subcommittee To: Chairman, SICIWI Overhead Reconnaissance Subcommittee

SUPJECT. In support of the U.S. Navy responsibility for Ocean Surveillance, as assigned by the JCS, a very high priority requirement exists for inputs to the Navy Ocean Surveillance Information System from the satellites of the National Recognaissance Program (MRP). To satisfy this requirement the Navy desires to initiate tasking, through the National Reconnaissance Office, (NRO), of the appropriate satellites of the NRP. The Navy desires to establish with SORS, the SIGINT Committee and USIB the requirement for tasking the NRP ELINT resources. By parallel action the requirement for tasking the NRP photo satellites will be established with the Imagery Collection Requirements Subcommittee, COMIREX and USIB. The initial goal is the development of the necessary lines of communications to insure timely data input to the Ocean Surveillance data base.

The ELINT satellite input will be directed at locating radiating ships at sea. Fresent tasking priorities of the NRP MLINT satellites have been considered and the Poppy System, and perhaps others, can be tasked for Ocean Surveillance inputs without interfering with the present ABM tasking. A considerable portion of each satellite revolution is over areas of interest to Ocean Surveillance and not tasked for ABM. Establishing the tasking lines of communications immediately, and working out the various datails of reporting, will permit rapid response of the WRP ELINT satellites to any contingency, such as that produced by the has indicated that it is "interested in determining the response capability of satellite collection in time of crisis"; these preliminary steps will enhance the response capability of the ELINT satellite systems.

DACKGROUND AND DISCUSSION. The greatly increased Soviet naval activity in many areas of the world has in turn increased the Navy's Ocean Eurveillance responsibilities on a world-wide basis. To accommodate these increased responsibilities the Navy has realigned its organizational structure for Ocean Surveillance information management. This realignment is giving the Navy a greater capability to collect, colate, analyse and disseminate Ocean Surveillance information from an increased number of sources utilizing many different sensors. Much of the new Seviet Activity is expanding into global areas which cannot now be exploited by conventional platforms and sensors due to various political, geographic and equipment constraints. The requirement for

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TOP SHORT HARPOP CONTROL SYSTEM ONLY

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new sensor inputs to cover the new and expanding areas of interest, coupled with the ability to handle an increased volume of sensor inputs, has led the Navy to explore the value of intelligence from the MAINT satellites as an input to the Ocean Surveillance data base.

with approval of the MKO the Poppy System is being tasked on a
trial beais, to provide locations on Soviet combatant vessels.
processing capability and
geographic location, is assigned this tasking. In one three month
trial period over Soviet combatants were located at sea by the
techniques of the Poppy System. Where possible these fixes
were correlated through other sources and were of sufficient accuracy to
be of value in the Ocean Surveillance Information System. While pro-
cessing the data on the Soviet signals and analyzing the pulses, it
was determined that many could be identified in
addition to
of many Soviet combatants with these unique emitters were established
through other sources, and these combatants were then located and
tracked by inputs from the Poppy System. The minimum time achieved
for the location and identification to targets by this system (on an
experimental hasis) was This has subsequently been reduced
to approximately by removing manual processing procedures and
can be further reduced with the introduction of new programs and
techniques. These processing times may be considered "real time" for
the case of surface targets.

From the above trial, it was determined that Poppy information is of great potential value to the Navy's Ocean Surveillance Information System, especially because of the accuracy and global capability of this system. The trial also indicated that the Poppy System can respond to any requirement for location of detectable radiating platforms at sea.

3. RECUESTED ACTION. It is requested that SORS approve, and forward to USIB via the SIGINT committee, this Nevy request for authority to task, through the NRO, all of the ELINT satellites of the NRP to Ocean Surveillance purposes. Briefings on the Navy Ocean Surveillance Information System can be arranged through the Poppy Program Manager by the Navy SORS member is desired.

Very respectfully,

	J. K. COKEFAIR
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