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NRL CONTROL RECORD NDW-NRL-5216/1005 (11-67)

ACTION TAKEN BY

DESTRUCTION REPORT NO.



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS

WASHINGTON, D.C. 20350

Op-092/kfp BYE-65622/69 2 4 FEB 1969

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MEMORANDUM FOR THE CHIEF OF NAVAL OPERATIONS

Via: 0p-09

Subj: Report on Meeting of Executive Tactical Operating Group (EXTOG)

1. The newly instituted EXTOG met on 6 February 1969 under the auspices of Op-092 (Director of Program C) to discuss details and future plans of the POPPY Satellite System. The EXTOG has been formed to consider what the POPPY Satellite System can do to aid in meeting the world-wide threat to U. S. naval forces. Specifically: What area of the threat can be addressed by POPPY? What can we do to bring POPPY resources to bear on these threat areas? What are the proper areas for future POPPY employment in support of U.S. naval operations? In attendance were:

Op-03G RADM J. E. DACEY Op=07B RADM V. P. DEPOIX/RADM W. N. LEONARD **0**p**-**092 RADM F. J. HARLFINGER **Op-35** RADM M. D. CARMODY 0p-76 RADM W. J. MORAN RADM E. P. AURAND 0p**-**93 Op-94G REWSON NRL MR. H. LORENZEN/MR. R. MAYO

2. The agenda was as follows:

a. As a review, a short briefing was presented on the technical capabilities of the POPPY Satellite System and the associated ground readout stations.

- b. Recent successes achieved by POPPY in locating Soviet combatants at sea were explained at length. The impact of these successes on Ocean Surveillance was discussed.
 - c. The future plans for POPPY were discussed.
- 3. Highlights of the above discussions:
- a. The POPPY System provides a valuable input to Navy Ocean Surveillance. Input consists of locations of radiating platforms. The real time nature of the inputs will permit tracking of platforms at sea.

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	b.	As	POPI	PY :	Ls	a	nati	onal	asset,	imm	edi	ate	plar	ns cal	l fo	or d	ocumen	tation
to									employ				_					
na	tional	1.0	cean	Sw	cve	1]	lance	e roi	le.									•

- c. Plans are underway to employ POPPY assets for surveillance of Soviet forces during the Soviet summer fleet exercise.
- d. Requests have already been made through Op-094G and Op-441 to provide for POPPY ground site facilities at ELINT coverage of the entire by POPPY satellite will be possible from a ground readour station at this location.
- e. To prepare for the day when use of foreign bases will be denied to U.S., initial consideration is being given to use of suitable U.S. bases for POPPY ground sites. Eventually a mobile ground readout station, aboard a surface ship, should be employed to guarantee complete freedom of selecting the POPPY readout location.
- 4. To insure a coordinated effort throughout OPNAV in employing POPPY assets and implementing future POPPY plans, bi-monthly meetings of EXTOG are planned. The EXTOG will be able to report regularly to CNO and VCNO on the value of the ELINT satellites to the Navy. As a basis for developing the information, attendees at this meeting indicated they would provide the following for EXTOG meetings:

a.	RADM DACEY	satisfied by ELINT satellite."	n i
b.	RADM LEONARD	"A review of significant portions of th LEONARD COMMITTEE REPORT."	e
C.	RADM CARMODY	"Portions of the EW threat that can be satisfied by ELINT satellite."	
d.	RADM MORAN	"Review of possible conflicts between planned U.S. radar satellites and the POPPY system."	•.
е.	RADM AURAND	"Possible locations for POPPY ground readout stations."	
f.	0.5.	"Equipment and personnel requirements f a POPPY ground readout station."	or

Very respectfully,

F. J. HART WINGER THE

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To Secret

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What	to the effect of an added digitizer at with regard to:
a,	increased coverage
	(1) geographic - no increase
	(2) estimated number of targets - the employment of 4
	will permit more RF bands to be covered simultaneously. Where
	This amounts to an eight-fold increase in coverage.
p,	priority of targets/value of target coverage - targets are
	bounded by an arc running from
· C .	accuracy of location - the digitizer will
	permit an accuracy improvement on the order of The
	area of the 90% confidence ellipse will be reduced to
	of that obtained on an analog recording.
· d.	time required on target - will be the same - the location will also
	be the same
ž s	time of response on targets of interest - we have no list of targets
	of interest - NAVINTCOM should provide
i` a	parameter measurement capability - the digitizing rate is The
	analog reocording is based on a
E a	nata processing
	(1) sorting by location - the location capability achieved by
	employment of a digitizer will give a specific target
	capability
	(1) general processing - signal analysis at the site is considerably
	facilitated by a digital tape. The analog mignal extraction
	is by ear. NRL should have some additional imputive with the left of the left
\ 0	mater I system only
X	En Columbia

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h,	SPASUR ephemeris is averaged over an orbit spacing correction period
	and is unusable during such periods.
	is to be employed on Mission 7106 whi
	from ground sites to the vehicle and
	integral part of this system - it is the data recorder. This system
	will give precise slant ranges.

2. Gast

a, breakdown by FY - NRL provide

The analog recording uses only a part of the full capability of Mission 7106 and all future missions.

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Problem Areas for week Beginning 3 Feb'69.....

I. Briefing for CNO due 18 Febget started with the outline.
and XO from SAMSO office west coast for a briefing which Speaker has requested. It must be remembered that this SAMSO office has been looking to industry to get their Brains for the technical job which NRL Has supplied for this project. It is still entirely uncertain what the NRL roll will be in the Ocean surveillance picture of the future. An Extension of the Data Collection now being used in Poppy could only be used for this job-if the payload has a design very similar to that of the present POPPY payloads. HOL should address the philosophy of NRL as it interfaces today and tomorrow with OP-07, 76 and SAMSO, and PM-7
Briefing with ARMY Map Service people WEXNEX TO SERVICE 9 AM. Must check out clearances.
Briefing to Comptroller to comincide with schedule. A. Summarize the overall FIGURE OF MERIT OF DIGITAL STATION vs ANALOG. B. Chart to itemize the Specific TARGET AREAS. C.
V. about Schedule has offered early August as his estimate due to delivery of critical GGS components from venders and Secquential tests which remain to be doneNO mention of our stuff holding them up Vince offered them bands for on the 29 and was asked to hold them for a couple of weeksunderstand that these were not the last needed to complete but rather the first ones which are the greatest risk in producing RF Interference. They are absolutely essential in the early trouble-shooting to get the internal noises down to acceptable levels.
Les assist in finishing up

