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HANDLE VIA BYEMAN-TALENT-KEYHOLE

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

(When filled in)

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BYEMAN- TALENT -KEYHOLE

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DEPARTMENT OF THE NAVY'.Y
NAVY SPACE PROJECT OFFICE, PM-16
WASHINGTON, D.C. 20360

IN REPLY REFER TO PM-16-41 19 Nov 1971

MEMORANDUM FOR DIRECTOR, NAVAL RESEARCH LABORATORY
DIRECTOR, NATIONAL SECURITY AGENCY
DIRECTOR, CENTRAL INTELLIGENCE AGENCY
DIRECTOR, NRO STAFF (SS-4)
COMMANDER, NAVAL SECURITY GROUP

Subj: POPPY Technical Operations Group (TOG) Meeting;

Report of

Encl: (1) List of Attendees

(2) TOG Agenda

(3) POPPY Operational Highlights

1. A TOG meeting was held at 0930, 15 November 1971 at the Naval Research Laboratory. The list of attendees and agenda are forwarded as enclosures (1) and (2).

a. 7105/6/7 Status

(1) Housekeeping conditions for Mission 7105/6 appear stable with no new problems encountered.

(2) NSG - Measurements at indicate that,
in high-density data collection conditions. Mission 7105
are
being seriously attenuated. This irregularity in 71050
in particular is causing much data to be sorted
by the A/DDS into the narrow bin and considerable narrow-
bin data to be rejected entirely. All sites have been
tasked to look at the problem further. NRL is reluctant
to undertake major changes in the A/DDS gating or soft-
ware sorting limits prior to the 7107 launch, but is
inclined to defer to the judgment of the team of tech rep:
on site in if suggested changes are easily
implemented.

(3) The Mission 7107 A/B balls will be shipped to Vandenberg AFB on 22 November 1971. The C/D pair will be shipped 27 November 1971. NRL will send its launch team in two groups to the West Coast and at least one man will be sent to each of the sites for postlaunch monitoring and engineering evaluation of the payloads. Launch is now scheduled for Wednesday, 15 December, during the 1108 - 1301 Z window.

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b. 7105/6 Operational Highlights

(1) See enclosure (3) for monthly highlights. The period was marked by very low-level activity among naval and high-interest land-based targets.

c. 7105/6 Processing Highlights

- (1) NSA NSA is very intent upon procuring an SEL810 for analysis of POPPY digital tapes using the software deployed to the field. Contracting is currently under way.
- (2) NSA selector devices for analog analysis are being shipped to the sites this month. Instruction manuals and appropriate site-compatible switching mechanisms are also being forwarded.

d. SEL810 Retention at

- (2) PM-16 The contract for the SEL86 was let on 15 November 1971.
 - (3) NSG NRL is no longer able to fund any training effort. NSG is currently planning to bring one key maintenance man and one key analyst from each site back to CONUS every year for a 2-week training and project symposium. NRL is working on maintenance training films for the program. This will improve maintenance and processing capability on the SEL810/86 system.

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e. Engineering Tasking (Added at the Meeting)

- (1) There were no changes to the engineering tasking for Mission 7107 as proposed by NRL. Tests of the variable thresholder and the roving modulator will be accomplished during the course of the engineering evaluation, which will run for at least 10 days subsequent to Mission 7107 launch. Tests for possible failure modes will be carried out during this period. A second phase of the testing will sample data quality, quantity and accuracy, as well as the PDE interface with 7107. Only after these tests have been satisfactorily completed will the satellites be turned over to national authority for operational tasking, approximately 1 February 1972.
- (2) NSA NSA needs digital and analog tapes as soon as practicable after launch to insure compatibility of collection data with its processing system. Especially desired are tapes of new bands or bands not previously deployed with coverage. Appropriate tapes can be duplicated from the take at to fulfill this latter need at NSA. Additionally, comb filter data tapes are required. For all tapes to be examined, NSA would like all four pulse widths on each channel tasked.
- (3) NSA If possible NSA would like to collect the 8-GHz beam of while the satellites in the appropriate pair are less than Also, currently inactive, has previously come up several times on Christmas. Coverage by Mission 7107 is desired if possible.
- (4) NRL SLM tasking is being worked up. NRL would also like to conduct engineering tasking of Mission 7107 on a quarterly or semiannual basis for a period of 2 4 days. This could be accomplished on a rotating basis at each site.
- (5) NSA NSA desires an early look at the 7107 data from and will confirm to NSG the compatibility of alpha-numeric task group names with its processing.

CAPT, USN

Director, Program C

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LIST OF ATTENDEES

(15 Nov 71 TOG Meeting at NRL)

PM-16		
<u>NSA</u>		

NSG

LCDR Cole LT Morgan ENS Booth

NRL

Mr. Lorenzen

Mr. Mayo Mr. Wilhelm

Mr. Eisenhauer

Enclosure (1)





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TOG AGENDA

0930 15 NOV 1971

- l. Status of 7105/6/7 (NRL)
- 2. POPPY operational reports on 7105/6 (NSG)
- POPPY processing highlights (NSA) 3.
- 4. SEL810 retention at (PM-16)

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HANDLE VIA BYEMAN-TALENT-KEYHOLE Enclosure (2) CONTROL STETTAL TOTALY

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CONTROL SYSTEMS JOINTLY BYEMAN-TALENT-KEYHOLE



POPPY OPERATIONAL SUMMARY 26 Oct - 15 Nov 71

During the 3 weeks since 26 October, field site collection has remained light.
has continued its search for signals of the possible No target signals were
detected.
No further intercept locations have been made of the in the reported its 94th intercept in support of Project FLAVOR in September.
On 4 - 5 November, supported the collection effort of joint SAC/DIA/NSA reconnaissance flights against Soviet air defense zone structures. This was the second mission against the On 10 preflight revs of 7105 A/B and C/D, processed 110 locations of target signals. With only emitters located within the Six revs were tasked during the exercise, but darkness tasking constraints prevented tasking bands for geolocation of the
emitters were heard active in the geolocated at known EOB sites. During the first mission against this ADZ on 25 October, 47 target emitters were located, but only one signal was located within the at an EOB site on the northeast tip of
are collecting Signal Level Mode data against the CHICOM emitter for elevation profile data. Four good quality tapes have been requested from each site.
The POPPY field sites have reported a total of 21 Soviet naval emitter locations during this reporting period, distributed within the following geographic areas:
Mediterranean 4 Black Sea 2 Baltic Sea 15
TOTAL 21
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ENCLOSURE (3)

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interfere basis to and develop possible	ave been tasked since Augus determine the current X-ban e techniques for exploitati	d environment
Mission 7105 capabi		7
	s reported heavy by both llowing analysis by	and
	Surface Search/Tracking Fire Control (Mostly Soviet	10%
	Intercept (US) Navigation (Soviet)	15% 5%
	Navigation (Commercial/Mili Fire Control/Tracking (US/S	
terminated digital s because of excessive	period of the special task, search for the ecomputer time. However, ssful with the 3371 PRF mode	emitters analog
suggested using bear	emi 85, 1125 or 842 PRF modes. m width criteria in isolati: mbiguity at 3371 PRF.	tters has
this date is still disabling circuitry	a computer outage on 25 Octounable to perform digital purchase been identified and new perform procured. If all and the should be operated.	rocessing. The w parts have malfunctions
that the the payload (Bravo of was initially discovered family emitters when the analog position ysis. is cur	f data from 7105 Charlie at channel) are narrower than revered during routine search re, in many cases, data were, but were not isolated in crently collecting leading eary to permit accurate digital	ing for e detected on digital anal- edge/trailing
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