

NRL ~~B-272-75~~

DATE  
10 NOV 75

ENCLOSURES

(1) AGENDA, (2) LIST OF ATTENDEES,  
(3) MISSION 7107 STATUS, (4) MISSION  
7107 PHASE X ENGINEERING EVALUATION,  
(5) COLLECTION HIGHLIGHTS, (6) PRO-  
CESSING HIGHLIGHTS

SUBJECT  
POPPY TECHNICAL OPERATIONS GROUP (TOG)  
MEETING; REPORT OF

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☐ DESTROY AFTER ROUTING. (NO FURTHER  
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12

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*I-INFORMATION*  
*C-COMMENT*  
*R-RETAIN*  
*E-EVALUATION*

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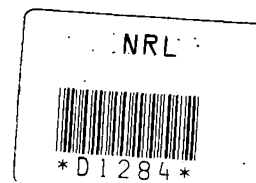
PME-106-543

NOV 10 1975

MEMORANDUM FOR THE CHIEF OF NAVAL OPERATIONS (OP955)  
COMMANDER, NAVAL SECURITY GROUP COMMAND (G54, POCG)  
DIRECTOR, NATIONAL SECURITY AGENCY (A81, R24, W2, W34)  
DIRECTOR, NATIONAL RECONNAISSANCE OFFICE (SS4, SS4A, SS7)  
DIRECTOR, NAVAL RESEARCH LABORATORY (1000, 7030)

Subj: POPPY Technical Operations Group (TOG) Meeting; report of

Encl: (1) Agenda  
(2) List of Attendees  
(3) Mission 7107 Status  
(4) Mission 7107 Phase X Engineering Evaluation  
(5) Collection Highlights  
(6) Processing Highlights



1. The POPPY Technical Operations Group met at 0930 on 30 October 1975 at the Naval Research Laboratory. The meeting agenda and a list of attendees are forwarded as enclosures (1) and (2).
2. Enclosure (3), a status report on the POPPY satellites, was presented by the Naval Research Laboratory representative. Strict power conservation procedures have been implemented during the current period of low sunlight. All payloads appear to be healthy, and the conservation measures are considered precautionary. No instances of data degradation have been reported.
3. The Naval Research Laboratory representative briefed the group on plans for the November engineering evaluation and submitted enclosure (4).  
[redacted] operations personnel will support the engineering evaluation by operating the system and will provide computer and manpower assistance to the engineering evaluation team. It was established that the engineering evaluation will be promulgated by message from the Naval Research Laboratory during the week of 17 November. A second message, during the same week, will provide an executive summary of the technical data in the engineering evaluation and will, in addition, contain the statement of expected remaining lifetime of the POPPY satellites.
4. Collection highlights for October, included as enclosure (5), were provided by the Naval Security Group Command (POCG) representative.

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Order 11652 Exemption Category  
PARA 5B2 Automatically Declassified  
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Subj: POPPY Technical Operations Group (TOG) Meeting; report of

5. Enclosure (6), a processing highlights report, was submitted by the National Security Agency representative.

6. The Naval Security Group Command representative reported that [ ] operations will terminate on schedule on 31 October. [ ] operations are presently suspended for [ ] training and will resume on 8 November.

7. The Navy Space Project Office representative reported that since the last TOG meeting separate queries had been sent to the Naval Security Group Command, the National Security Agency, the Naval Research Laboratory and to HRB-Singer Corporation to request specific information in support of the POPPY continuation study. Replies from each of the organizations had been received and compiled into a report. A second continuation meeting will be convened to discuss ways and means to support continued exploitation of Mission 7107.

8. The Navy Space Project Office representative provided a viewgraph briefing on the POPPY Equipment Disposition Plan, which has been provided by other means to the National Security Agency, the Naval Research Laboratory and the Naval Security Group Command.

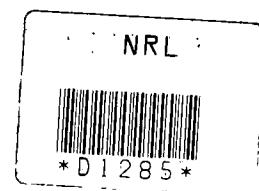
9. The next TOG meeting is scheduled for 0930 on Tuesday, 25 November at the National Security Agency.



R. T. DARCY

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~~TOP SECRET~~~~EARPOP ZARE~~AGENDA

MISSION 7107 STATUS

MISSION 7107 PHASE X  
ENGINEERING EVALUATION

COLLECTION HIGHLIGHTS

PROCESSING HIGHLIGHTS

GROUND SITE STATUS

POPPY EQUIPMENT DISPOSITION

Enclosure (1) to BYE No. 59,602-75

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~~TOP SECRET EARPOZARE~~LIST OF ATTENDEES

NSGC

NSA

NRO

LCDR Potts (NSPO)

NRL

Mr. Lawton (7030)  
MR. FRANKOVIC (7030)

CNO

← WAS  
PRESENT

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Enclosure (2) to  
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~~TOP SECRET EARP ZARF~~Warning Notice - Sensitive  
Intelligence Sources and  
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Mission 7107 has entered the second half of an extended period of low sunlight. Today's reading is 85 percent. One-hundred percent sunlight will not be reached until day 349 (December 15).

There have been instances of low voltage that required resets on 7107 A, B and C. A large number of revs were not tasked on 7107C because of the tasking restriction on revs not in sunlight established on 19 September 1975. Sunlight data is continuing to be furnished by NRL to the POCG. 7107D voltage data is being forwarded to NRL from the field sites. As a result of this data, NRL has recommended halting collection on multiple station revs if the second or third station must interrogate when the voltage on 7107D is less than 11.25 volts at acquisition.

There were several instances of the vehicles getting away from the sites without being reset. NRL recommended resetting two minutes earlier on all vehicles to avoid this problem.

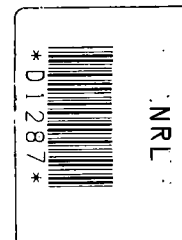
Some problems arose in mid-October on 7107A with the timer resetting early. These have happened before, and NRL requested that the sites examine the AGC levels to see if any external signals were causing the problem. There have been no recurrences.

Spacing between 7107A and B has gone over the [ ] mile limit. [ ] will conduct thrusting operations within a week after co-ordination with NSG. A short burn of probably one rev is anticipated.

The spacing for the 7107 vehicles is as follows:

Enclosed are the minimum daily voltage plots. There has been some confusion on the tasking restrictions now in effect. They are as follows:

- |                       |   |
|-----------------------|---|
| 7107 A + B            | - Low yield task groups in effect during periods of low sunlight to maintain minimal drain on batteries |
| 7107C                 | - Sunlight only tasking   |
| 7107D                 | - No tasking restrictions at present time   |
| CURRENT LIMITATIONS   |   |
| Regular Task Groups   | - not to exceed 500 ma;<br>recommended maximum of 450 ma.   |
| Low yield task groups | - in 200-250 ma range   |



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SLM Tasking

- No restriction in sunlight.  
During darkness, SLM tasking (one or two  
revs per day) may not exceed 350 ma.

Attached is a plot of minimum daily voltage for 1975.

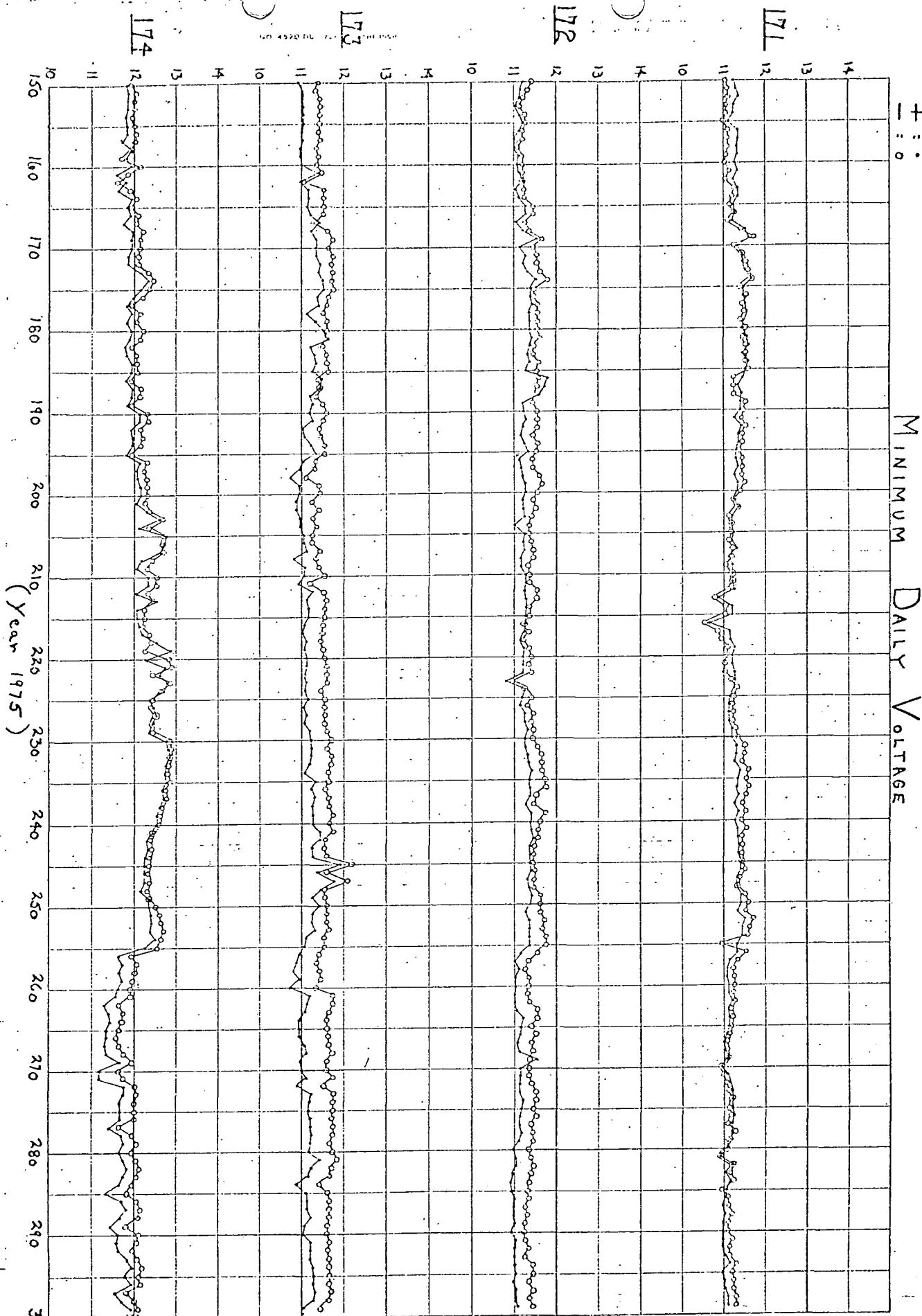
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## MISSION 7107

PHASE X ENGINEERING EVALUATION

NRL will conduct an engineering evaluation of the 7107 spacecraft at [redacted] on 10-12 November. The following sets of revs have been requested for the evaluation:

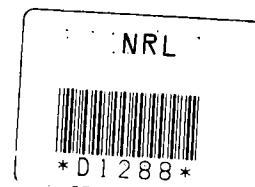
19585 - 588	ABCD
19598 -	CD
19599 - 601	ABCD
19602 -	AB
19612 -	CD
19613 - 615	ABCD
19616 -	AB

These revs are in both sunlight and darkness.

The evaluation will include examination of the spacecraft and the ELINT collection system. Task groups have already been forwarded to the site (through NSG).

Scheduled participants in the evaluation are Messrs. Frankovic, Lawton, [redacted] Wilson and Eisenhower.

A report on the results of the evaluation and the status of the 7107 vehicles will be written and sent out during the week of 17 November.



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Enclosure (4) to BYE No. 59,602-75

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## Ocean Surveillance:

A total of 3237 [ ] locations were reported since the last TOG meeting. 302 were equated to major Soviet combatants or auxiliaries. 410 were major combatant associated but could not be equated to a specific hull. 33 [ ] were intercepted. 2492 intercepts of merchant radars were reported.

[ ] had three intercepts of a possible [ ] had one intercept. These were intercepted on the following dates:

[ ] 22, 24 and 28 September  
25 September

All intercepts were geolocated to the Sea of Japan.

KRESTA II CLGM MARSHALL VOROSHILOV has returned to the Sea of Japan from Petropavlovsk

KRIVAK DDGSP RAZYASHCHITYY, coming from the Baltic Sea, transited the Mediterranean and the Suez Canal and is presently off the Gulf of Aden.

The new construction BORIS CHILIKEN AOR IVAN BUBOV departed the Baltic Sea and was last located in the Mediterranean. This is the first out of area deployment for this unit.

Only one out of [ ] was intercepted. It was geolocated in the Eastern Mediterranean on the 7th of October.

## Technical Intelligence and EOB:

Unident 27-207 intercepted on 23 September exhibited a very unstable PRF. It was reported with the PRF of 1013.0 PPS and a scan of 3.9 seconds. This signal is similar to previous intercepted signals by [ ] and reported as possible [ ] shipborne emitters.

Numerous intercepts of [ ] emitters were reported during the report period. This emitter is possibly associated with [ ] radar displaying a PRF of 1685.129 PPS and equating to either the 48th countdown of the 80.886 kHz 1 nautical mile crystal or the 96th countdown of the 80.884 kHz 1 nautical mile crystal.



Enclosure (5) to BYE No. 59,602-75

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PROCESSING HIGHLIGHTS

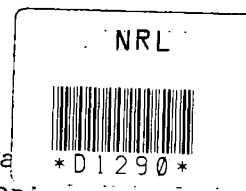
1. 
  - a. On October 21, a draft ELT on  was jointly reviewed by project departure personnel.
  - b. Summary of ELT findings
    - (1) 3 PRI ranges intercepted which equate to the 24th, 48th, 96th, countdown of an 80.8884, 1 nautical mile crystal.
    - (2) Intercepts from the two ships to which  has been associated show distinct PRI values
    - (3) The circular scan periods ranged from 3.78 to 3.83 second peak, occurred approximately at 3.81 seconds.
    - (4) The horizontal beamwidth is approximately 1.0 degrees.
    - (5) Vertical coverage is from 0 to 15 degrees above the horizon.
  - c. The emitter is speculated to represent:
    - (1) A refinement over  which would upgrade overall surface search performance
    - (2) A correction of an unknown deficiency in
    - (3) A modification to interface  to another shipboard system.
2. There were several developments with 
  - a. Photo tasking was requested on 15 October. No results have been received as yet.
  - b. HRB-Singer has been tasked to search tapes for  emissions. Completion of this task should be in time for the next TOG Meeting. All appropriate personnel will be notified relative to  if  search is successful.

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