

NRL SPECIAL PROJECTS CONTROL NUMBER
NRL B-000128-73~~TOP SECRET~~ - BYEMAN HANDLE
VIA BYEMAN CONTROL SYSTEM ONLYDATE
9 JULY 73

ORIGINATOR PM 16-5 (SERIAL NO. BYE-55332/73	ENCLOSURES (1) Agenda (2) List of Attendees (3) Minimum Daily Voltage (4) Collection Highlights
DATE REC'D 18 JULY 73	TICKLER DATE - -	COPY NO. 10, 11	RECEIPT NO. WA 80,649	
SUBJECT TECHNICAL OPERATIONS GROUP (TOG) MEETING; REPORT OF			DIST INFO	

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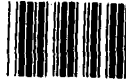
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11



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NAVY SPA PROJECT OFFICE (PM 16)
~~(S)~~ NATIONAL RECONNAISSANCE OFFICE, PROGRAM C
WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

PM-16-5
9 July 1973

MEMORANDUM FOR: DIRECTOR, NRO STAFF (SS4, SS4A and SS7)
DIRECTOR, NATIONAL SECURITY AGENCY (W2 and R2)
DIRECTOR, CENTRAL INTELLIGENCE AGENCY (OSI)
COMMANDER NAVAL SECURITY GROUP
CHIEF OF NAVAL OPERATIONS (OP 094W)
DIRECTOR, NAVAL RESEARCH LABORATORY (1000 and 7030)

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

Encl: (1) Agenda
(2) List of Attendees
(3) Minimum Daily Voltage
(4) Collection Highlights

1. A POPPY TOG meeting was held at NSA at 0930 on 21 June 1973. The agenda and a list of attendees are forwarded as enclosures (1) and (2).

2. The following specific items were discussed:

a. 7107 Status: (NRL)

The status of the satellites remains unchanged since the last TOG. Enclosure (3), a plot of minimum daily voltages for each of the satellites as well as the percent sun exposure for each day was presented. It is discernible that the plots have very similar shape - the power condition in the satellites is directly related to sun exposure.

The NSG representatives asked if the reaction wheels could be re-activated, particularly in 7107D (174 on the plot), when the maximum sun period is experienced. A dramatic reduction in the number of [] emitters that can be geopositioned has been experienced since the wheel on this satellite was secured. Research with OSIS indicates that submarine activity is high, but POPPY is not seeing the number of [] that normally accompanies high activity. The NRL representative agreed to forward the NSG request and to contact NSG.

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Intelligence Sources and
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Exempt From GDS of Executive
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PARA 5b(2) AND (3) Automatically
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The current spac[redacted]

[redacted] respectively. [redacted] rusting is planned in the immediate future.

NRL is still attempting to correlate problems in commanding the satellites to their orientation at the time of command. A report of this study will be available shortly.

The PAPS II (POPPI automated Processing) software is now operational at [redacted]. No problem is anticipated when the contractors leave and the NSG operators take over. The SEL 86 has been inoperative while the PAPS II delivery was being implemented.

b. 7107 Collection Highlights: (NSG)

The NSG representatives introduced enclosure (4) which is a report of activity since the previous TOG.

c. 7107 Processing Highlights: (NSA)

Analyses of POPPY acquired data is proceeding on several fronts. Some items of note, related to emitter/weapons systems were reported.

[redacted] - Analyses are continuing.

[redacted] is generally considered to operate with this system, since the emitters are sometimes observed to operate in PRF synchronization in the 7800 MHz RF region. Recently, by another collection source, [redacted] has been observed operating in PRF synchronization with the SA-2, also in the 4000 MHz region. In one instance, [redacted] appeared to share operations, alternating while in sync with the SA-2.

New signal - A recent NSA analysis of POPPY data revealed some [redacted]. The NSA representatives inquired whether this might be a satellite reaction to [redacted] signal, since the PRI appears to be constant and the [redacted] is only [redacted] than the PRI. The NRL representative agreed to determine the 7107 satellites response [redacted] signals in this region.

New signal - In the 2100-2580 MHz band, NSA analysts have noticed a signal that appears to be [redacted] except for a PRF of 183 pps. The sites havenot reported this anomaly. From POPPY tapes, [redacted] processing of collections on 3 January, 13 March, 4 and 5 April and two in May, has led to geolocations near Gorky, Kapustin Yar and Archangel, all of which are known to have a new [redacted] radar. Correlations are being made between the POPPY data and Ursula data.

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[] At NSA instruction [] is now reporting this signal (in the 2100-2580 MHz band) at 400 pps PRF and a 9 sec circular scan. The fact that POPPY was intercepting this emitter was detected through [] and Pac ELINT Center.

On Orbit Calibration - A report on this activity is not yet prepared. Preliminary results indicate that the first two days (11 and 12 June) did not provide useful data, and the B satellite did not provide data on the third and fourth days.

This result was discussed, with NSG stating that [] was monitoring the [] activity and had no problem with 7107B throughout the period, indicating a possible ground problem at [] [] Another contribution to the difficulty experienced might be due to the fact that [] personnel do not routinely interrogate the satellites and record ELINT data. It might be more fruitful to conduct the on-orbit calibrations from an operational site.

3. The next TOG Meeting is scheduled for 0930 on 26 July 1973 at SPO spaces at NRL.


R. K. GEIGER

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AGENDA

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7107 .OLLECTION HIGHLIGHTS

7107 PROCESSING HIGHLIGHTS

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ENCLOSURE (1)

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LIST OF ATTENDEES

PM-16 (SPO)



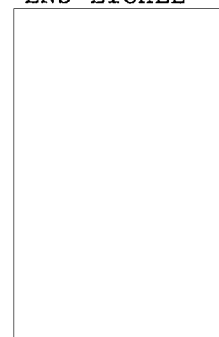
NRL

Mr. FRANKOVIC

CNO (OP 094W)

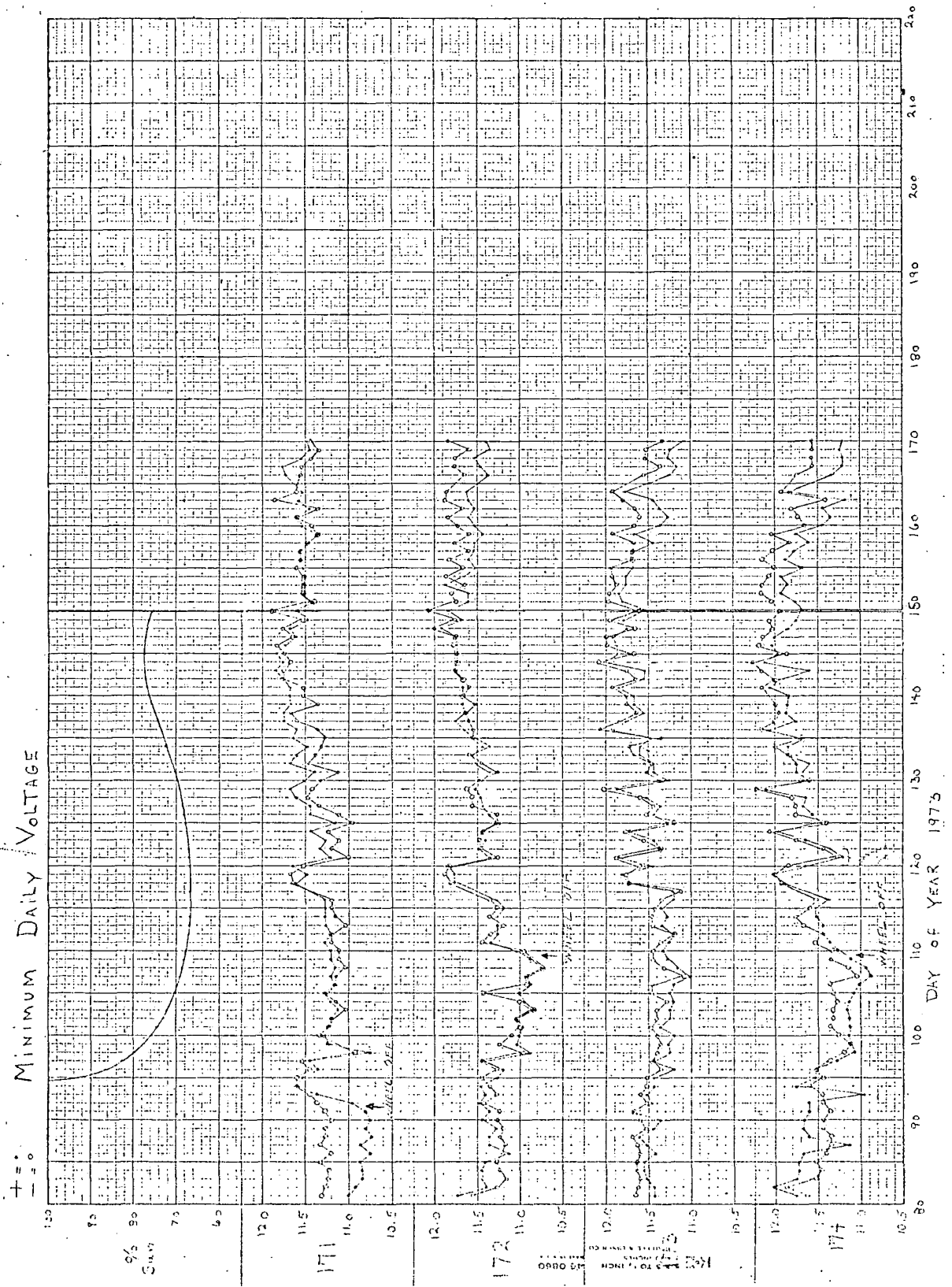


NSG

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ENCLOSURE (2)

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ENCLOSURE (3)
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CC ION HIGHLIGHTS

ELECTRONIC ORDER OF BATTLE:

THIRTY-THREE SA-2 EMITTERS WERE INTERCEPTED FROM [] AND THREE FROM [] UNDER P. CT FLAVOR SPECIAL TASK. TWO SA-2 EMITTERS WERE ALSO INTERCEPTED FROM [] ACCOMPLISHED THREE LOCATIONS OF THE SA-X-8 MISSILE SYSTEM IN THE AREA OF KUYBYSHEV, USSR (NORTH OF CASPIAN ON VOLGA RIVER). THESE LOCATIONS WERE FIRST INDICATION THE SYSTEM HAD BEEN DEPLOYED TO THIS AREA. [] ALSO ACCOMPLISHED THE FIRST INTERCEPT OF THE SA-6 MISSILE SYSTEM FROM SARY SHAGAN.

THE NEW POPPY SOI LIST HAS BEEN IMPLEMENTED BY THE FIELD SITES. THE LIST MAKES PROVISIONS FOR REDUCING THE DAILY REPORTING OF EOB DATA. ALL SA-6 AND SA-4 EMITTERS INTERCEPTED FROM CONFIRMED SITES WILL NOW BE REPORTED IN THE WEEKLY SUPPLEMENTARY LOCATION REPORT.

TECHNICAL INTELLIGENCE:

THE SPECIAL SLM TASK IS STILL IN PROGRESS AT ALL OVERSEAS POPPY SITES. ALL REVS INTERROGATED IN THE DELAY MADE BY [] ARE NOW TASKED FOR SLM TASK GROUPS S51 IN [] AND S60 IN [] THIS WAS DONE TO INCREASE SLM COLLECTION AGAINST THE SUPER [] EMITTERS.

SLM PROCESSING REQUIREMENTS WERE REDUCED ON THE [] EMITTER. [] COLLECTED TWO REVS SPECIFIED FOR SLM COLLECTION ON [] AND INTERCEPTED OVER 35 DIFFERENT [] EMITTERS. ALL WERE PROCESSED FOR SLM AND IT REQUIRED OVER 12 HOURS TO COMPLETE THE PROCESSING. BECAUSE OF THIS, PROCESSING WAS REDUCED TO THE REQUIREMENT FOR PROCESSING ONLY SEVEN EMITTERS OF ONE FAMILY ON A GIVEN REV.

OCEAN SURVEILLANCE:

[] PRODUCTION WAS DOWN DURING THE LAST MONTH. THIS IS DUE IN PART TO MODIFICATIONS TAKING PLACE AT [] IN PREPARATION FOR IMPLEMENTATION OF PAPS II, AND, THE RELATIVE INACTIVITY OF SOVIET MAJOR COMBATANTS.

ALL SOVIET FLEETS HAVE UNDERGONE A MAJOR PENDANT NUMBER CHANGE. NO SOURCE HAS INFORMATION ON THE NEW NUMBERS NOW IN USE, SO POPPY SITES ARE CONTINUING TO REPORT OLD PENDANT NUMBER AND VESSEL'S NAME.

ENCLOSURE (4)
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IS TASKING ONE REV A DAY ON EACH PAYLOAD [REDACTED] FOR THE PURPOSE OF MONITORING THE ATLANTIC TRANSIT OF THE USS GUAM AND ASSOCIATED ESCORT VESSELS. THIS TASK WAS INITIATED BY STATION REQUEST FOR PURPOSE OF DETERMINING VULNERABILITY OF THE TRANSIT VESSELS TO OVERHEAD SYSTEMS. A WRAP-UP REPORT WILL BE SUBMITTED BY THE SITE UPON COMPLETION OF THE TRANSIT (30 JULY).

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