

NRL B-000101-74

DATE
9 APR 74Kell 29-74
7/8/74PROJECT NAME - TRANSFER OF INFORMATION
CONTROL NUMBER - 000001

ORIGINATOR FMC 106		SERIAL NO. BYE 59818/74	ENCLOSURES (1) AGENDA (2) LIST OF ATTENDANCE (3) MINIMUM DAILY VOLTAGE PLOT (4) COLLECTION HIGHLIGHTS
DATE REC'D 12 APR 74	TICKLER DATE 8-9	COPY NO.	RECEIPT NO. RA 80,576
SUBJECT POPE/ TECHNICAL OPERATIONS GROUP REASON: LOSS-OUT OF		DIST INFO	

- ☐ BASIC DOCUMENT ON R/S _____
☐ BASIC DOCUMENT NOT HELD. DESTROY.

CODES HAVING PRIMARY INTEREST CHECK ONE

- ☐ RETAIN INDEFINITELY. (REFERENCE VALUE).
☐ RETAIN _____ MONTHS. (INFO MATERIAL
HAVING ONLY TEMPORARY REFERENCE VALUE).
☐ DESTROY AFTER ROUTING. (NO FURTHER
REFERENCE OR INFORMATION VALUE).

DESTRUCTION REPORT NO.

FINISH FILE

7.2

REMARKS

Lilo
NRL INCOMING DOCUMENT

B101-74



8



BYE-59818-74

I-INFORMATION
C-COMMENT
R-RETAIN
E-EVALUATIONRETURN THIS ROUTE SLIP TO NRL SPECIAL PROJECTS OFFICE, ROOM 222, BLDG. 43.
DO NOT ROUTE TO OTHER SECTION OR BRANCH.

ACTION TAKEN BY

NRL CONTROL RECORD NDW-NRL-5216/1005 (REV. 3-72)

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CONTROL NO.

Bye 59818/74
cy 8.9

REFERRED TO OFFICE	RECEIVED			RELEASED		SEEN BY	
	SIGNATURE	DATE	TIME	DATE	TIME	NAME & OFFICE SYMBOL	DATE
<i>NRL</i>							

Handle Via Indicated Controls

BYEMAN

Access to this document will be restricted to those persons
cleared for the specific projects;

EARPOP

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WA 80,576
H/9

WARNING

This document contains information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive information in the designated control channels. Its security must be maintained in accordance with regulations pertaining to BYEMAN Control System.

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~~SECRET~~

NRL B-000101-74

NAVAL SECURITY PROJECT OFFICE
(S) NATIONAL RECONNAISSANCE OFFICE, PROGRAM C
WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

PME-106-5

APR 9 1974

MEMORANDUM FOR THE DIRECTOR, CENTRAL INTELLIGENCE AGENCY (OSI)
COMMANDER, NAVAL SECURITY GROUP COMMAND
DIRECTOR, NATIONAL SECURITY AGENCY (W24, W34, R24, A81)
DIRECTOR, NAVAL RESEARCH LABORATORY (1000 AND 7030)
CHIEF OF NAVAL OPERATIONS (OP 094W)
DIRECTOR, NRO STAFF (SS4, SS4A AND SS7)

Subj: POPPY Technical Operations Group Meeting; report of

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

1. A POPPY Technical Operations Group (TOG) meeting was held at the Naval Research Laboratory (NRL) at 0930 on 28 March 1974. The agenda and a list of attendees are forwarded as enclosures (1) and (2).

2. The following specific items were discussed:

a. Status. (NRL)

The 7107 satellite orbit is passing from 100% sunlight to an extended period of minimum (66%) exposure. Today's reading is 80% and declining. 7107D reduced tasking remains in effect.

System health remains stable, except that some low voltages (see enclosure (3)) have been experienced the past few days, as a product of the high rate of charge mode. It will be necessary to carefully monitor voltage levels during the next ninety days, after which 100% sun exposure will be available for a short period. The NRL engineers are now considering instituting a new higher minimum voltage level for site reset of the payloads (above 10.6V.). It is not expected that tasking levels will be affected.

Message traffic from the sites indicates several instances of malfunctioning options (not necessarily chronic) in addition to those already documented as failed. There have also been some instances when crosstalk has been noted in known bands. To date crosstalk has not disrupted processing. These anomalies are scheduled for thorough review at the next engineering evaluation, scheduled for [REDACTED]

Current spacing is:



The SOC will issue a guidance message for spacing control.

b. Collection Highlights. (NSG)

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CLASSIFIED BY BYEMAN - 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION CATE-
GORY 5B2 DECLASSIFY ON IMP DET.

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PME-106-5

Subj: POPPY Technical Operations Group Meeting; report of

The Naval Security Group Command representative submitted enclosure (4).

c. Processing Highlights. (NSA)

The following items were submitted by the W34 representative:

(1) At the TOG meeting of 31 January 1974 it was reported that [] had intercepted an unidentified signal that was subsequently geopositioned to Kharkov, USSR. This 158 MHz signal appears to be associated with [] a suspected ionospheric research radar. The analysis on this emission is progressing adequately with no assessment yet as to the speculated mission and function, or threat potential of this new signal. The signal was recently redesignated 1020Z and cannot be released outside of TK channels.

(2) [] has collected an unidentified X band multibeam emission suspected of emanating from the Plesetsk Missile and Space Center. Site analysis indicates a 226.4 FPS PRF time shared sequentially between three beams. Analysis also indicated each beam being scanned at a rate of 2.0 CPS. No additional information is available at this time.

(3) At the 20 December TOG meeting it was mentioned that a computer based listing of field reported unidentified signals from Missions 7107, [] had been prepared and distributed throughout NSA. Since then the lists have also been distributed to the field sites for their comments.

Based primarily on field site response the existing list has been revised. Contents now include a listing of each unidentified signal, including all remarks, by the overhead collectors. Copies will be sent to the field sites for further comments.

The on-orbit calibration was also discussed, with the R24 representative stating that NSA is in the process of reviewing the requirement and the effectiveness of this effort. More information will be provided as available.

d. FY 75 POPPY PLAN. (SPO)

At the previous TOG meeting, a draft basic plan was submitted and inputs were solicited from the organizations that participate in POPPY. NSG and NRL are responding but no other inputs have been received or are anticipated. The purpose of this plan is to document, for all participants, the activities that are required to support the POPPY operations, particularly those under direct SPO cognizance. The absence of such a documented plan leads to an inability to support unprogrammed efforts.

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CONTROL SYSTEM

PME-106-5

Subj: POPPY Technical Operations Group Meeting; report of

The SPO will publish the approved activities plan.

3. The next TOG meeting will be sponsored by the SPO and is scheduled for 25 April 1974.



R. K. GEIGER

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~~TOP SECRET~~ EARPOPAGENDA

STATUS

COLLECTION HIGHLIGHTS

PROCESSING HIGHLIGHTS

FY 75 POPPY PLAN

~~TOP SECRET~~ EARPOPEnclosure (1) to BYE-59,818-14

LIST OF ATTENDEES

SPO

SOC

NSG

LT Lentz

NRL

Mr. Lawton
Mr. Frankovic

NSA

OPNAV

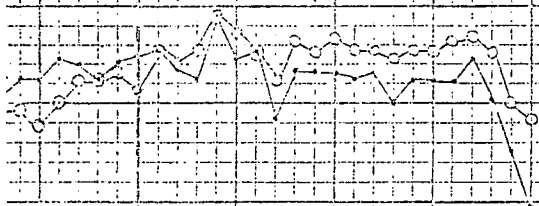
Enclosure (2) to

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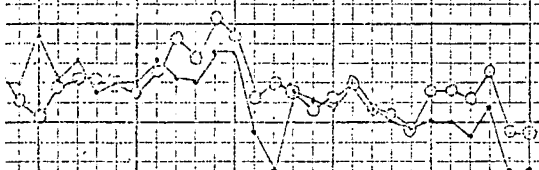
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DOD DIRECTIVE 6200.10 DOES NOT APPLY

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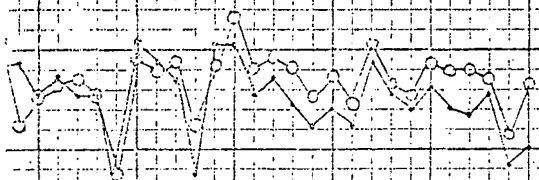
MINIMUM DAILY VOLTAGE PLOT



7107A



7107B



7107C



7107D

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COLLECTION HIGHLIGHTS

Since the previous TOG meeting, the following has occurred.

Ocean Surveillance - There have been a total of 4435 [] locations of which 383 are equated. There were 75 [] intercepts and 613 unequated intercepts of combatant associated emitters. [] monitored the completion of the AGM exercise in the Pacific. The KRESTA II CLGM 511 "Marshall Voroshilov" is the first KRESTA II to be deployed to the Pacific. [] observed the transit of the KASHIN DLG 527 "Smetlivyj", KOTLIN DDG 377 "Soznatelny" and the KARA CLGM 155 "Nikolaev" from the Black Sea to the Med. Also observed was the transit of the KILDEN DDGSP 198 "Neulovimyj" from the Med to the Black Sea and the movements of the PRIMORYE AGI "Kakaz" in the Eastern Med. Both [] are observing the transit of the KRIVAK DDGSP 504 "Bodryy", KRIVAK DDGSP 508 "Silniy" and the SVERDLOV CL 891 transiting from the Baltic to the Med as a possible relief force. The arbitrary designator BF-003-73 has been correlated to the KRIVAK DDGSP 508 "Silniy." [] observed the transit of the PRIMORYE AGI "Zakarpate" across the Atlantic to the U.S. east coast where the vessel is presently on station. [] observed the transit of the SVERDLOV CLCP "Adm Senyavin" and the KASHIN DLG 109 "Spossobnyj" back to the Sea of Japan.

Technical Intelligence - The following two unidents were reported by [] and are new items of possible high interest.

17-208: Signal parameters are similar to []. However scan is STI iaw EPL for both emitters. EPL states [] is associated with the [] radars. PRI of 628.02(1592.3PPS) does not equate to a countdown of the 150KHZ crystal normally associated with the [] emitters. A location was obtained from digital analysis at 70-22N/53,47E, with a confidence ellipse of 26 X 285NM at 005DEG.

17-209: Digital analysis reveals that emitter is apparently utilizing three beams scanning at an approximate rate of 2.OHZ. Emitter uses a PRF of 226.47PPS (4414USEC PRI) time shared between the three beams sequentially. When only one beam is being intercepted the emitter appears to have a PRF of 75.49PPS, phase shifting 120 degrees every five or six pulses. However, when payload position and emitter scan are such that all three beams can be seen at one time it becomes apparent that the 4414.6 USEC phase shift is actually the PRI being shared by three beams. The 2.OHZ scan appears as a 6.OHZ rate until further analysis reveals three beams sequentially scanned at 2.OHZ. Orbital geometry at time of intercepts suggests signal emanating from Plexetsk Missile and Space Center.

Electronic Order of Battle [] reported the first intercepts of SA-6 equipment from Antipinskoye, USSR. This is the first indication that the SA-6 equipments had been deployed to this site. Antipinskoye is a training area; therefore deployment of SA-6 equipments to this site may be temporary. [] reported the first POPPY intercept of the [] early warning radar from Syria. Equipment was located at Dara (3257N/03606E). Project FLAVOR has dropped off considerable in the past couple of months, especially in the reporting of SA-6 activity. This is caused in part, by payloads now covering area in evening hours.

Enclosure (4) to

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