

Approved for Release: 2024/06/14 C05026412

NRL SPECIAL PROJECTS CONTROL NUMBER

~~TOP SECRET~~ HANDLE VIA BYEMAN-TALENT-KEYHOLE-  
CONTROLSYSTEMS JOINTLY

~~XXXXXXXXXX~~

BKC 000233-73

DATE

20NOV73

ORIGINATOR

PMEL06-5

SERIAL NO.

BYE 59854/73

ENCLOSURES

- (1) AGENDA (2) LIST OF ATTENDEES  
(3) NSG 232019ZOCIT73 (7107 OPS)  
(4) MINIMUM DAILY VOLTAGE PLOT  
(5) COLLECTION HIGHLIGHTS

DATE REC'D

30NOV73

TICKLER DATE

=

COPY NO.

89

RECEIPT NO.

A 80731

DIST INFO

SUBJECT

POPPY TECHNICAL OPERATIONS GROUP  
GROUP MEETING: REPORT OF



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

NRL INCOMING DOCUMENT



B233-73



8



BYE-59854-73

\*A-ACTION  
I-INFORMATION  
C-COMMENT  
R-RETAIN  
E-EVALUATION

RETURN 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)

CONTROL NO. BYE-59854/73  
CY# 8,9

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

Handle Via Indicated Controls

BYEMAN-TALENT-KEYHOLE-COMINT

.....EARPOP.....  
.....ZARF.....  
.....

*PMH*  
*PR 6.099/73*  
*WA 80731*

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

.....  
.....

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, 794 and 798. 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 the BYEMAN-TALENT-KEYHOLE and Communications Intelligence Controls. No action is to be taken on any communications intelligence which may be contained herein, regardless of the advantage to be gained, if such action might have the effect of revealing the existence and nature of the source, unless such action is first approved by the appropriate authority.

NRL - BTKC  
000233-73 ~~TOP SECRET~~

GROUP 1  
Excluded from automatic  
downgrading and declassification

NAVY SPACE PROJECT OFFICE  
(S) NATIONAL RECONNAISSANCE OFFICE, PROGRAM C  
WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

PME-106-5

20 NOV 1973

MEMORANDUM FOR: DIRECTOR, NRO STAFF (SS4, SS4A and SS7)  
DIRECTOR, CENTRAL INTELLIGENCE AGENCY (OSI)  
CHIEF OF NAVAL OPERATIONS (OP094W)  
COMMANDER, NAVAL SECURITY GROUP  
DIRECTOR, NAVAL RESEARCH LABORATORY (1000 and 7030)  
DIRECTOR, NATIONAL SECURITY AGENCY (W2 and R24)

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

Encl: (1) Agenda  
(2) List of Attendees  
(3) COMNAVSECGRU 23 2019Z Oct. 73, Subj: 7107 Operations  
(4) Minimum Daily Voltage Plot  
(5) Collection Highlights

1. A POPPY TOG meeting was held at the National Security Agency (NSA) at 0930 on 25 October 1973. 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 satellites are in stable health and producing useful data. Their orbit is currently oriented so that minimum sun exposure is being experienced. This condition will prevail until January. A recent temporary low power problem on 7107D is attributable to low sun exposure. This situation was discussed. The NRL and NSG representatives agreed that the sites should attempt to minimize the "commanding" since multiple RESET/INTERROGRATION transmissions cause excessive power drain. The problem of incorrect activations and subsequent re-command is stated in enclosure (3), as is the instruction to the sites on procedures for minimizing the impact of low power situations. The NRL added that the previously stated procedure of securing the spacecraft just before they disappear from view must be continued; and allowing the timer to run out to secure the payloads must continue to be avoided.

The current satellite  spacing is:

The plot of minimum daily voltage is provided as enclosure (4). The severe 7107D situation on day 295 and its subsequent rectification is graphically illustrated.

Warning Notice - Sensitive  
Intelligence Sources and  
Methods Involved

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

HANDLE VIA  
BYEMAN  
CONTROL SYSTEM

CLASSIFIED BY 3131  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION CATEGORY 5B2 DECLASSIFY ON IMP DLT

TOP SECRET

IRROP ZART

BYE-59854/73  
CONTROL NO. 8  
PAGE 1 OF 3

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

PME-106-5/lc

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

The SPO representatives asked that timely and comprehensive status reports be sent to cognizant agencies as situations develop. The command level interest in POPPY is most evident at times of crisis and the need for information is magnified.

b. Collection Highlights. (NSG)

The NSG representative presented enclosure (5).

The NSA representatives introduced additional collection highlights as follows:

A discussion on the use of SOCOMM circuits for analyst-to-analyst exchange ensued. The general concept that a SOCOMM terminal at NSA should be available for this important real time function was discussed. The NSA representatives (W2/3) did not envision any requirement for raw ELINT data exchange however, and stated that, as a general rule, no regular dialogue between POPPY analysts and other over-head SIGINT system analysts would be necessary, but that certain occasions might arise when such a capability might be very useful. The SOCOMM circuits being installed appear to be appropriate to the requirements.

c. Processing Highlights. (NSA)

The following administrative comments on NSA processing of POPPY tapes were provided:

(1) No "current" processing backlog exists. Approximately 4000 hrs. of un-processed data are waiting processing, but the system is taking the latest tapes first, and some headway into the 4000 hrs. is being made.

(2) Approximately five percent of all collected tapes are not processed because the data are not of sufficient priority. Two-thirds of the RF bands on the remainder of the tapes (63%) are routinely processed (no specific bands are consistently eliminated, but on a given tape about one-third are not processed).

(3) A product of the processing is a POPPY collection history record wherein entries by RF, PRF, scan rate and whether geolocated are maintained. These records are available for researching environment studies and locating specific signals within the stored collection tapes. This procedure, since implemented, has greatly

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

HANDLE VIA  
BYEMAN  
CONTROL SYSTEM

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

~~TOP SECRET~~ LARPOP ZARF

CONTROL NO BYE-59854/7  
COPY 8 OF 12 COPIES  
PAGE 2 OF 3 PAGES

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

PME-106-5/lc

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

reduced the time required to research signals of interest. Some printouts of these data were discussed and were described as available to system organizations having a requirement.


A problem that has arisen in the processing of POPPY tapes was discussed. The problem centers around the fact that tape headers are made up prior to the beginning of the pass, but the tasking (by RF band) listed on the header might not be what is actually collected/recorded. Whenever a difference between the header and the data exists, annotation is made on the tape trailer. This becomes a problem in computer processing at NSA because the header is read first to adjust the software accordingly and the trailer is not read until after the data are processed. A more positive means for the computer operators to identify tapes on which trailers must be read prior to processing is required.

The NSA representatives agreed to coordinate with the NSG representatives to specify a solution.

d. Engineering Evaluation. (NRL)

The dates for the next evaluation are now firm and the NRL team will be at [redacted] 13 through 15 November. The NRL has a message in the system requesting the station commitment required (down 0001Z14 Nov. through 2359Z15 Nov.).

3. The next TOG will be hosted by the Naval Research Laboratory on 29 November 1973.

  
R. K. GEIGERHANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLYHANDLE VIA  
**BYEMAN**  
CONTROL SYSTEMCLASSIFIED BY BYEMAN-1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION CATE-  
GORY 5B2 DECLASSIFY ON IMP DET.~~TOP SECRET~~ ~~EARPOP ZARE~~CONTROL NO. BYE-59854/7  
COPY 8 OF 12 COPIES  
PAGE 3 OF 3 PAGES

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

HANDLE VIA  
**BYEMAN**  
CONTROL SYSTEM

AGENDA

STATUS

COLLECTION HIGHLIGHTS

PROCESSING HIGHLIGHTS

ENGINEERING EVALUATION

HANDLE VIA  
BYEMAN-TALENT-KEYHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

Enclosure (1) to

HANDLE VIA  
**BYEMAN**  
CONTROL SYSTEM

CLASSIFIED BY BYEMAN-1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION CODE  
GORY 582 DECLASSIFY ON IMP DET.

~~TOP SECRET~~

CONTROL NO BYE-5983Y/73  
COPY 8 OF 12 COPIES  
PAGE 1 OF 1 PAGES

~~TOP SECRET~~HANDLE VIA  
**BYEMAN**  
CONTROL SYSTEMLIST OF ATTENDEES

SPO:

NSA:

NRO (SOC

NSG:

LT Morgan

NRL:

Mr. Lawton  
Mr. Frankovic

Enclosure (2) to

HANDLE VIA  
**BYEMAN**  
CONTROL SYSTEMCLASSIFIED BY BYEMAN - 1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION CATE-  
GORY 5B2 DECLASSIFY ON IMP DET.~~TOP SECRET~~~~EARPOZZAN~~CONTROL NO. 13/E-5857/73COPY 8 OF 12 COPIESPAGE 1 OF 1 PAGES

~~TOP SECRET~~

23 OCT '73 21:13

FV 17/20/77

ZCZCXA781

00 YEKXLD

DE YEKVAR #0050 2962015

ZNY HMAHX

ZKZK RR AAZ DE

O R 232219Z OCT 73 ZYS ZYH

FM COMNAVSECGRU

HANDLE VIA BYEMAN  
CONTROL SYSTEM ONLY

2JI/SAO/10

COG OP009E2P

NRL, NAVELEX (PME-106) VIA OP009E2P

SAFSS FOR SOC

INFO CNO

NSACSS

YEKALNC/CIA/OEL/GSD

YEKALNC

ZEM

~~TOP SECRET~~ EARPOP BYEMAN CHANNELS

DO NOT TRANSMIT VIA OPINTEL BROADCAST

CNO FOR NRL, OP-942E2P NAVELEX (PME-106) AND SAFSS (SOC)

NSACSS FOR W221, W21, AND SSSC

CIA/OEL/GSD FOR

7107 OPERATIONS (S-BE)

1. AS OF REV 9319, 7107 C/D ARE OPERATIONAL WITH PAYLOAD VOLTAGES LOOKING GOOD, HOWEVER, THIS MAY BE DUE TO THE PAYLOADS PRESENT BEING IN SUNLIGHT; IF SO, EVENING REVS MAY SHOW POOR VOLTAGES, CONSEQUENTLY, MONITOR VOLTAGES CLOSELY AND BE PREPARED TO RESET IF VOLTAGES DROP BELOW 10.6V.

2. DELTA LOW VOLTAGES MAY BE THE RESULT OF MULTIPLE RESET/INTERROGATION ATTEMPTS USED TO GET OPTIONS UP CORRECTLY, SINCE THE RESET TONE PAIR OPENS ALL RELAYS PUTTING A HEAVY DRAIN ON THE BATTERIES, SEMAPHORE REPORTS INDICATE MINIMAL SUCCESS IN CORRECTLY ESTABLISHING OPTIONS DURING LOW SUNLIGHT PERIODS, THEREFORE DO NOT MAKE MULTIPLE ATTEMPTS TO ACHIEVE PROPER OPTION ACTIVATIONS UNTIL OTHERWISE DIRECTED, IF EQUIPMENT SHOWS PROPER DLIS ACTIVATED WITHOUT OPTION, COLLECT IN THAT MANNER.

3. SYSTEM WILL NOT BE OUT OF MINIMAL SUNLIGHT PERIOD BEFORE

1 JAN 74,

E-2 IMPDET

240

#0050

HANDLE VIA  
BYEMAN-TALENT-KCXHOLE-COMINT  
CONTROL SYSTEMS JOINTLY

NNNN

Enclosure (3) to BYE

BYE-54854/73

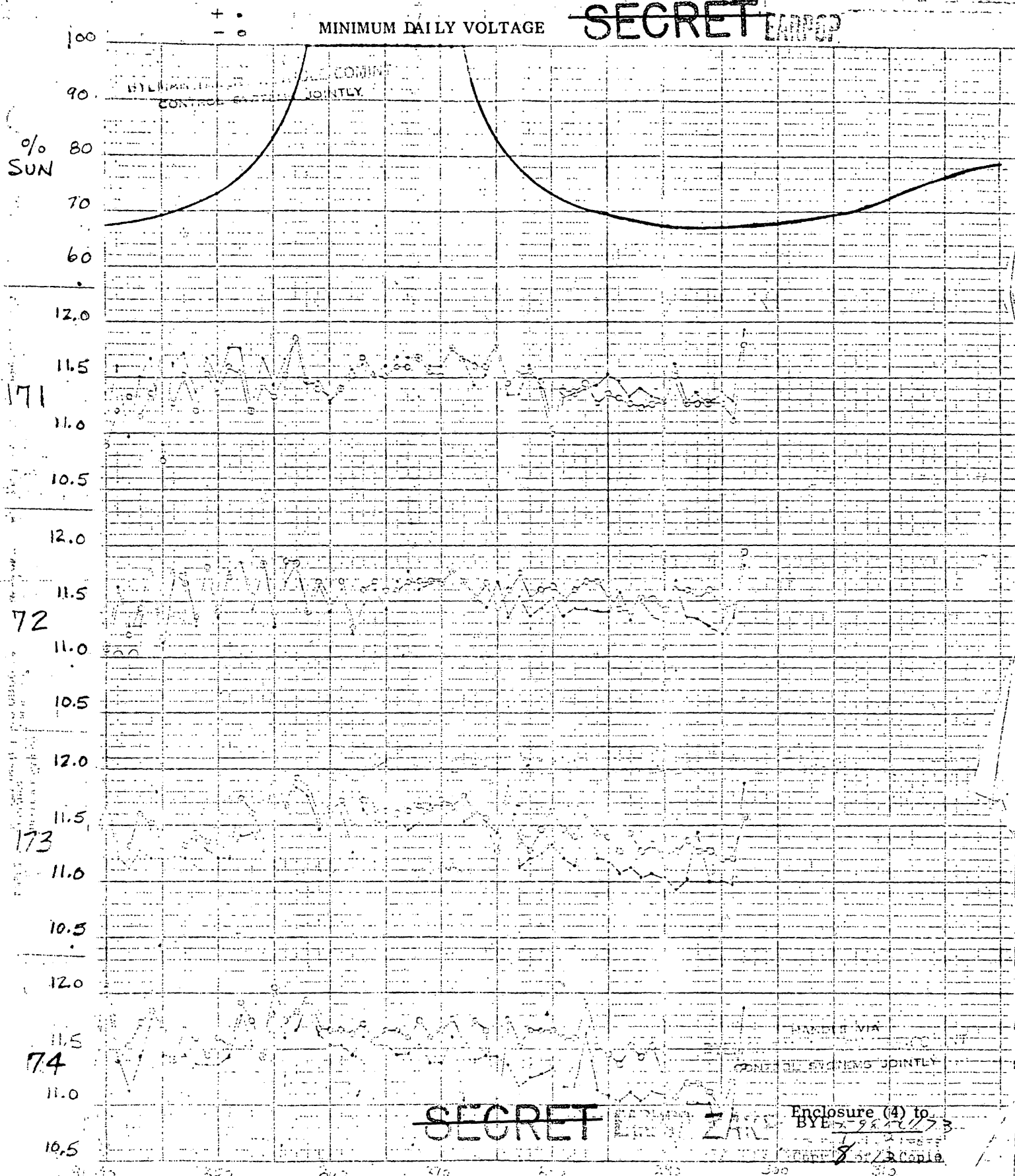
~~TOP SECRET~~

Page 1 of 1 Pages

Copy 8 of 8 Copies

ZAKF

~~SECRET~~



~~TOP SECRET~~BYEMAN  
CONTROL SYSTEMHAND - 1A  
BYEMAN TALENT-K. IDLE-CONTENT  
CONTROL SYSTEMS - 1ACOLLECTION HIGHLIGHTS

Current highlights are:

TECHNICAL INTELLIGENCE:

SPECIAL SLM TASKING FOR ALL OVERSEAS STATIONS IS BEING CONTINUED  
THROUGH 1 NOV. SLM DATA HAVE BEEN COLLECTED ON: [REDACTED]

EOB:

SINCE THE BEGINNING OF THE MIDEAST WAR, PROJECT FLAVOR PROCESSING  
AND REPORTING HAS BEEN UPGRADED TO PRIORITY 2 FOLLOWING PRIORITY 1  
[REDACTED] ITEMS. AS A RESULT, 168 INTERCEPTS OF SA-6 EMITTERS IN [REDACTED] AND  
45 INTERCEPTS OF SA-6 EMITTERS IN [REDACTED] HAVE BEEN REPORTED. ALSO FOUR  
SA-2 AND ONE SA-3 HAVE BEEN REPORTED. SOME OF THE SA-6 INTERCEPTS FROM  
[REDACTED] SHOW THE SAME EQUIPMENT HAS BEEN MOVED TO THE [REDACTED]  
AND [REDACTED]

OCEAN SURVEILLANCE:

SINCE THE LAST TOG MEETING THERE HAVE BEEN 2511 REPORTED LOCATIONS  
OF WHICH 688 WERE EQUATED. THE NEW CONSTRUCTION KRESTA II CLGM 585,  
ACTIVE IN THE BALTIC, HAS A PRF OF 699.443 WHICH IS VERY CLOSE TO THE  
OTHER BALTIC KRESTA II 597 WHICH HAS A PRF OF 699.446.

[REDACTED] MONITORED THE NORTH FLEET/MED TRANSIT GROUP  
THROUGH INTERCEPTS OF THE [REDACTED] EMITTER ABOARD THE KASHIN DLG  
514 WHICH EXITED THE BALTIC ON THE 22ND OF SEPT AND JOINED THE TRANSIT  
GROUP IN THE NORTH SEA AND ACCOMPANIED IT TO THE MED. [REDACTED]

[REDACTED] MONITORED THE MOVEMENTS OF THE KRESTA II CLGM 545, KRIVAK

HANDLE VIA  
BYEMAN  
CONTROL SYSTEMCLASSIFIED BY BYEMAN 1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION DATE  
30/1/2024 DECLASSIFY ON AMP DET~~TOP SECRET~~~~EXPOZARE~~

Enclosure (5) to

CONTROL BYES-25-73  
COPY 9 OF 12 COPIES  
PAGE 1 OF 3 PAGES

HANDLE VIA  
BYEMAN TALENT KEYHOLE COMINT  
CONTROL SYSTEMS JOINTLY

~~TOP SECRET~~

HANDLE VIA  
BYEMAN  
CONTROL SYSTEM

DDGSP, AND THE KANIN DDG 252, SHADOWING THE NATO EXERCISE IN THE NORWEGIAN SEA. NOW BEING MONITORED IS THE TRANSIT OF A KRESTA 289 AND KANIN 559 FROM THE CARIBBEAN.

[ ] HAS OBSERVED THE BUILDUP OF ALL MAJOR MISSILE COMBATANTS IN THE MED INCLUDING THE KOTLIN 346 WHICH JUST ENTERED THE MED FROM CONAKRY, THE TRANSIT OF THE KASHIN 177 FROM THE MED TO THE BLACK, AND THE KASHIN 196 AND KILDEN 198 WHICH LAST WEEKEND ENTERED THE MED FROM THE BLACK SEA.

#### OPSCOMM CIRCUIT:

DUE TO A DELAY IN DEVELOPMENT OF THE NSA SOFTWARE PACKAGE NEEDED TO PROVIDE SWITCHING CAPABILITIES FOR THE NSA TERMINAL, A DECISION WAS MADE TO ESTABLISH AN INTERIM NETWORK BY HARDWIRING THE THREE G54 TERMINALS DIRECTLY TO [ ] THESE CIRCUITS ARE NOW OPERATIONAL AND WE HAVE INITIATED A 24 HOUR WATCH POSTURE.

THE INTERIM CIRCUIT DOES NOT HAVE A RELAY CAPABILITY SO THAT SITE TO SITE COMMUNICATION MUST BE RELAYED THROUGH G54. THIS TEMPORARY ARRANGEMENT WILL ALLOW US TO BOTH DEVELOP FAMILIARITY WITH THE SYSTEM PROCEDURES AS WELL AS AID IN CURRENT OPERATIONAL COORDINATION. UPON COMPLETION OF THE NSA SOFTWARE PACKAGE, THIS INTERIM SETUP WILL BE TERMINATED AND THE FULL OPSCOMM CIRCUITS ESTABLISHED. THE EARLIEST DATE FOR IMPLEMENTATION OF THE FULL CAPABILITY IS 1 DEC 73.

#### SYSTEM STATUS

THE 8600 COMPUTER AT [ ] BECAME OPERATIONAL FRIDAY EVENING 19 NOV 73, AND FULL PROCESSING CAPABILITIES HAVE BEEN RESTORED. IN ADDITION, BOTH OF THE 810 COMPUTERS ARE NOW FULLY OPERATIONAL.

ANALYSIS OF THE IMPACT OF THE 8600 COMPUTER OUTAGE INDICATED THE

HANDLE VIA  
BYEMAN  
CONTROL SYSTEM

CLASSIFIED BY BYEMAN-1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 13526 EXEMPTION DATE  
30 JUL 2002 DECLASSIFICATION AUTHORITY

~~TOP SECRET~~ ~~TOP SECRET~~ ~~TOP SECRET~~

CONTROL NO. 815-787/33  
COPY 8 OF 12 COPIES  
PAGE 2 OF 3 PAGES

BYEMAN - ENT-KENNEL  
CONTROL SYSTEMHANDLE VIA  
BYEMAN  
CONTROL SYSTEM

FOLLOWING. THE SITE CONTINUED TO PROCESS THE PRIORITY ONE [ ] TARGETS  
AND THE PROJECT FLAVOR [ ] EMITTERS WITH MINIMAL REDUCTION  
IN QUANTITY OR REPORTING TIME. UNEQUATED EMITTERS AND MERCHANT  
SHIPPING WERE THE HARDEST HIT BY THE OUTAGE WITH THEIR OUTPUT DROPPING  
TO AN ALMOST NEGLIGIBLE AMOUNT.

POPPY TASKING

STARTING 1 NOV, THE SYSTEM IS GOING TO REV BY REV TASKING. TWO WEEKS  
TASKING IS GOING TO BE SENT OUT ONE WEEK IN ADVANCE SO THAT NECESSARY  
CHANGES CAN BE ADAPTED. THE TASKING WILL BE IN ACCORDANCE WITH THE  
NRO/NSA GUIDELINES AND WILL ALLOW COGNIZANT STATIONS AND OFFICES IN  
THE POPPY COMMUNITY TO KNOW POPPY TASKING AT ALL TIMES.

HANDLE VIA  
BYEMAN  
CONTROL SYSTEMCLASSIFIED BY BYEMAN - 1 EXEMPT FROM  
GENERAL DECLASSIFICATION SCHEDULE OF  
EXECUTIVE ORDER 11652 EXEMPTION DATE  
2001 SELF DECLASSIFY ON IMPDET~~TOP SECRET~~ EARPOP ZARFCONTROL NO. VE-51574/73  
COPY 8 OF 12 COPIES  
PAGE 3 OF 3 PAGES