

NRL SPECIAL PROJECTS CONTROL NUMBER

NRL B-0001-74

~~TOP SECRET~~-HANDLE VIA BYEMAN CONTROL SYSTEMDATE
18DEC73108
7/6/94ORIGINATOR
PME-106-5SERIAL NO.
BYE 59863/73ENCLOSURES
(1) thru (6)DATE REC'D
4JAN74TICKLER DATE
-COPY NO.
89RECEIPT NO.
WA 80,505SUBJECT
POPPY TECHNICAL OPS GROUP (TOG)
MEETING; REPORT OF

DIST INFO

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

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☐ RETAIN INDEFINITELY. (REFERENCE VALUE).☐ RETAIN _____ MONTHS. (INFO MATERIAL
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DESTRUCTION REPORT NO.

FINISH FILE

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REMARKS

D 556
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2*A-ACTION
I-INFORMATION
C-COMMENT
R-RETAIN
E-EVALUATIONRETURN THIS ROUTE SLIP TO NRL SPECIAL PROJECTS OFFICE, ROOM
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ACTION TAKEN BY

NRL INCOMING DOCUMENT



B001-74



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BYE-59863-74

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

1/4
WA 80,505
108/73~~TOP SECRET~~
CONTROL NO.By 59863/73
cyg

REFERRED TO OFFICE	RECEIVED			RELEASED		SEEN BY	
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BYEMAN

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NRL B-0001-74

NAVY SPACE PROJECT OFFICE

(S) NATIONAL RECONNAISSANCE OFFICE, PROGRAM C

WASHINGTON, D.C.

~~TOP SECRET~~

OFFICE OF THE DIRECTOR

PME-106-5

18 DEC 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) Minimum Daily Voltage Plot
(4) Collection Highlights
(5) Flow of Reptile Data within NSA
(6) NRL 281310Z NOV 73 CITE [] 0673, Subj: Mission 7107 Phase VI
Engineering Evaluation Wrap-Up

1. A POPPY TOG meeting was held at the Naval Research Laboratory (NRL) at 0930 on 29 November 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 experiencing minimum sun exposure (approximately 70%) and will remain so until early January.

The current satellite [] spacing is:



The plot of minimum daily voltage is provided as enclosure (3). The plot is stable but very slowly declining.

b. Collection Highlights. (NSG)

Enclosure (4) was presented.

It was noted that, on the transit of the SVERDLOV and the KASHIN from the vicinity of Japan to the Phillipine Islands, HF EMCON was employed and so [] was able to supply unique ocean surveillance information during this leg of their transit to the Indian Ocean.

HANDLE VIA
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CONTROL SYSTEMEXEMPT FROM
CENTRAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652, 11762, 11845, 12065, 12325, 12465, 12565, 12665, 12765, 12865, 12965, 13065, 13165, 13265, 13365, 13465, 13565, 13665, 13765, 13865, 13965, 14065, 14165, 14265, 14365, 14465, 14565, 14665, 14765, 14865, 14965, 15065, 15165, 15265, 15365, 15465, 15565, 15665, 15765, 15865, 15965, 16065, 16165, 16265, 16365, 16465, 16565, 16665, 16765, 16865, 16965, 17065, 17165, 17265, 17365, 17465, 17565, 17665, 17765, 17865, 17965, 18065, 18165, 18265, 18365, 18465, 18565, 18665, 18765, 18865, 18965, 19065, 19165, 19265, 19365, 19465, 19565, 19665, 19765, 19865, 19965, 20065, 20165, 20265, 20365, 20465, 20565, 20665, 20765, 20865, 20965, 21065, 21165, 21265, 21365, 21465, 21565, 21665, 21765, 21865, 21965, 22065, 22165, 22265, 22365, 22465, 22565, 22665, 22765, 22865, 22965, 23065, 23165, 23265, 23365, 23465, 23565, 23665, 23765, 23865, 23965, 24065, 24165, 24265, 24365, 24465, 24565, 24665, 24765, 24865, 24965, 25065, 25165, 25265, 25365, 25465, 25565, 25665, 25765, 25865, 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Subj: POPPY Technical Operations Group (TOG) Meeting; report of

c. Processing Highlights. (NSA)

A partial solution to the POPPY digital tape header problem, discussed at the previous TOG meeting, was briefly described. The main problem centered around two RF bands being assigned the same [] in the same downlink (DL). Since this occurs on only about five percent of the collections (due to a DL activation malfunction), it has been decided that the multiple RF band [] will not be processed.

[] used a blowup of enclosure (5) to brief how POPPY (REPTILE) data are routed to the cognizant analysts.

Two main paths are followed:

(1) Messages are transmitted via CRITICOMM (now DIN/DSSCS) and enter the chain through T-COMM for automatic reading in TIDE for [] and for hard copy dissemination to the branches indicated for all traffic.

(2) Tapes are ARFCOS delivered and subsequently processed by [] after which selected reports enter the finished file (MARTINI) for reporting to users.

For CY 1972, the following numbers were quoted:

9418 signals identified by [] on POPPY digital tapes.

6199 signals processed through to the finished file, of which

2146 were used by DIA in reports to users,

932 of which matched EOB gap list requirements, and

10 were signals unique to 7107.

[] then described how W2 takes DIA priorities to establish the requirements for technical intelligence collection and processing. The analysis organization was discussed, as was the feedback to the POPPY system on whether a particular collection(s) and subsequent processing satisfied the requirement.

Project DEPARTURE, which uses an SEL 810 and field site software, is used to perform an extension of the analysis begun at the sites, particularly for signals on which SLM (Signal Level Measurements) have been taken.

In order to allow recovery from the tape archives of a signal that is known (by [] processing) to be on POPPY recordings, RF/PRF scan histograms are maintained. Compiling data in this way can also provide a perspective on

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PME-106-5

Subj: POPPY Technical Operations Group (TOG) Meeting; report of
the history of types of signals seen by individual sites.

d. Engineering Evaluation. (NRL)

Enclosure (6) was used to report on the latest engineering evaluation performed at [] on 14-15 November. When the high noise levels in the command frequency range were discussed, the NSG representatives inquired about the source and suggested that further action be taken to identify and possibly eliminate the source. LT Morgan offered to pursue this item.

The test described in paragraph 5 of enclosure (6) was initiated at SPO request, in response to CNO direction to ascertain how U.S. ship locations might be determined. Further results will be reported as available.

Mr. Turner, a CSC (Computer Science Corporation) employee, was introduced as the new Technical Representative at []. The last Technical Representative was recalled several months ago to assist in [].

e. JWG for Ocean Surveillance. (PME 106-4)

[] formerly of the NRO SOC, recently assigned Chairman of the JWG, gave a synopsis of his view of the JWG, and solicited comments from TOG members.

The JWG was organized two years ago on the West Coast to determine what techniques could be used by Program A ELINT systems to help solve O/S problems. Within the last month, Chairmanship has passed from the original Program A to Program C. Further POPPY involvement in JWG activities is anticipated.

3. The next TOG meeting is scheduled for 20 December 1973 at the SPO.

R. K. Geiger
R. K. GEIGER

HANDLE VIA
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CONTROL SYSTEMCLASSIFIED BY BYEMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION DATE
COPY AND DECLASSIFY ON IMPDET~~TOP SECRET~~CONTROL NO BYE-59863/1
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SPO:

LIST OF ATTENDEES

JWG:

NRL: Mr. Mayo ✓
Mr. Lawton ✓
Mr. Frankovic ✓
Mr. Turner (CSC) ✓NRO
SOC:NSA: (R-24)
(R-24)
(A-81)
(V-38)
(W-22)
(W-24)

NSG: LT Morgan

Enclosure (1) to

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CONTROL SYSTEMCLASSIFIED BY BYEMAN-1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 13526 EXEMPTION CODE
DO NOT DECLASSIFY ON IMP DLT~~TOP SECRET~~

ZARF

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~~TOP SECRET~~ ☐AGENDA

STATUS

COLLECTION HIGHLIGHTS

PROCESSING HIGHLIGHTS

ENGINEERING EVALUATION

JWG FOR OCEAN SURVEILLANCE

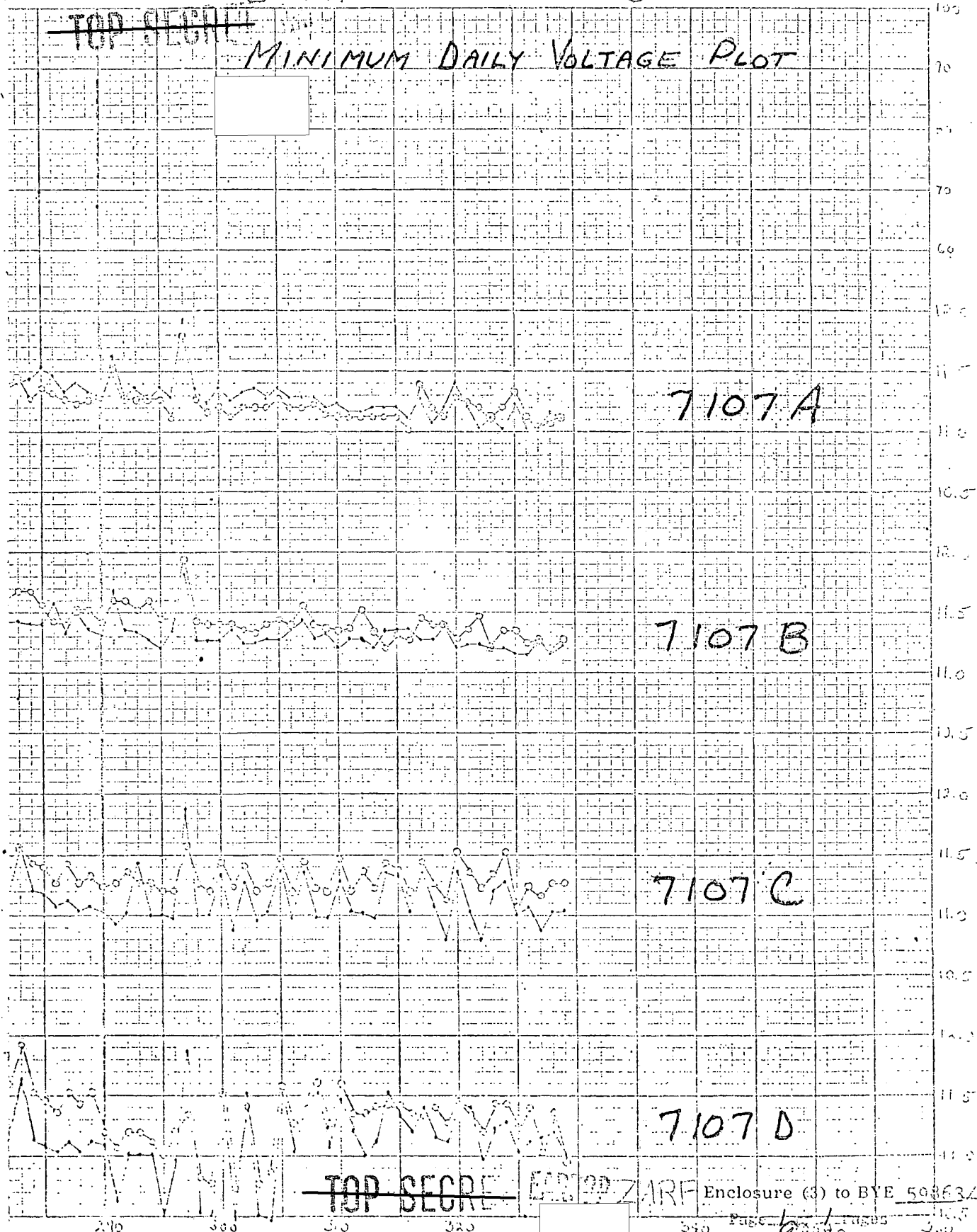
HANDLE VIA
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CONTROL SYSTEMCLASSIFIED BY BYEMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION CODE
GGY 502 DECLASSIFY ON IMPDET~~TOP SECRET~~ ☐

Enclosure (2) to

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MINIMUM DAILY VOLTAGE PLOT



7107 A

7107 B

7107 C

7107 D

~~TOP SECRET~~

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Enclosure (3) to BYE 50863/7

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BYEMAN
CONTROL SYSTEM~~TOP SECRET~~COLLECTION HIGHLIGHTSELECTRONIC ORDER OF BATTLE/TECHNICAL INTELLIGENCE

PROJECT FLAVOR: OVER 300 INTERCEPTS OF TARGET EMITTERS WERE REPORTED SINCE LAST MEETING. THE MAJORITY OF THOSE BEING SA-6's. ALSO REPORTED WERE INTERCEPTS OF THE [] EMITTERS. THERE HAS BEEN A STEADY DECLINE IN SA-6 ACTIVITY FROM [] IN THE LAST TWO WEEKS, ESPECIALLY FROM []

SLM INTERCEPT OF TARGET EMITTERS HAS BEEN LIGHT THE PAST MONTH. SITES HAVE REPORTED SLM INTERCEPT FROM THE SA-X-8, SA-6, SA-N-4, AND SA-N-3 MISSILE SYSTEMS. THE [] AND ASSORTED FIRE CONTROL RADARS WERE ALSO INTERCEPTED IN SLM.

SOME OF THE MORE INTERESTING TECHNICAL INTELLIGENCE ITEMS REPORTED BY THE FIELD SITES ARE AS FOLLOWS:

A. [] HAVE CONFIRMED THROUGH GEOLOCATION, THAT THE [] CAPABLE OF OPERATING IN A 49 PPS PRF MODE.

B. [] WAS GEOPOSITIONED BY [] TO THE NAN-NING AREA OF CHINA. SITE ANALYSTS ORIGINALLY SUSPECTED EMISSION WAS A NEW PRF MODE OF THE [] EMITTER. HOWEVER, UPON EXAMINATION OF SLM DATA THEY FOUND A [] PRESENT OF APPROXIMATELY 9 USEC. THIS WOULD ELIMINATE THE [] WHICH EXHIBITS [] THEY NOW FEEL THE INTERCEPTS ARE PROBABLY OF THE CHICOM DEVELOPMENTAL T4106.

C. [] HAS BEEN FOLLOWING TWO NANUCHKA MISSILE PATROL CRAFT IN THE MEDITERRANEAN THROUGH INTERCEPT OF THE SA-N-4 MISSILE SYSTEM FITTED ABOARD THESE VESSELS. SITE HAS OBSERVED TWO STI STAGGER MODES OF THE [] EMITTER WHICH WAS EQUATED TO NANUCHKA 978. THE TWO STAGGER MODES EXHIBITED MEDIAN PRF'S OF 1947.4 PPS AND 1571.0 PPS WITH STAGGED LEGS OF 508.1/518.7 USEC AND 629.4/644.0 USEC RESPECTIVELY.

OCEAN SURVEILLANCE:EUROPEAN:

[] CONTINUES TO MONITOR SOVIET SURFACE ACTION IN THE MEDITERRANEAN. THE SURFACE FORCE HAS LESSENED SOMEWHAT DUE TO RETURN TO BLACK SEA AND NORTH FLEET OF UNITS WHICH HAD BEEN ON EXTENDED OOA DEPLOYMENTS. IN THE SPACE OF THREE WEEKS, THREE SEPARATE TRANSITS FROM THE MED TO THE NORTH FLEET WERE MONITORED BY [] TRANSITS TOTALED FOUR SURFACE COMBATANTS AND []

Enclosure (4) to

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A KRESTA WAS ALSO OBSERVED ENTERING THE NORWEGIAN SEA FROM THE NORTH. [REDACTED] MEET INCHOPPING [REDACTED] SURFACE UNITS. [REDACTED] ESTABLISHED PRF TO HULL CORRELATIONS ON THE NEW MOD KILDEN NOW OPERATING IN THE MED. THE MOD KILDEN IS THE FIRST MAJOR SURFACE COMBATANT, SINCE THE OLD KRUPNYY CLASS, THAT IS FITTED WITH THE [REDACTED] EMITTER, BUT DOES NOT HAVE A SURFACE TO AIR CAPABILITY. THE KILDEN HAS BEEN FITTED WITH SS-N-12 SURFACE TO SURFACE MISSILES.

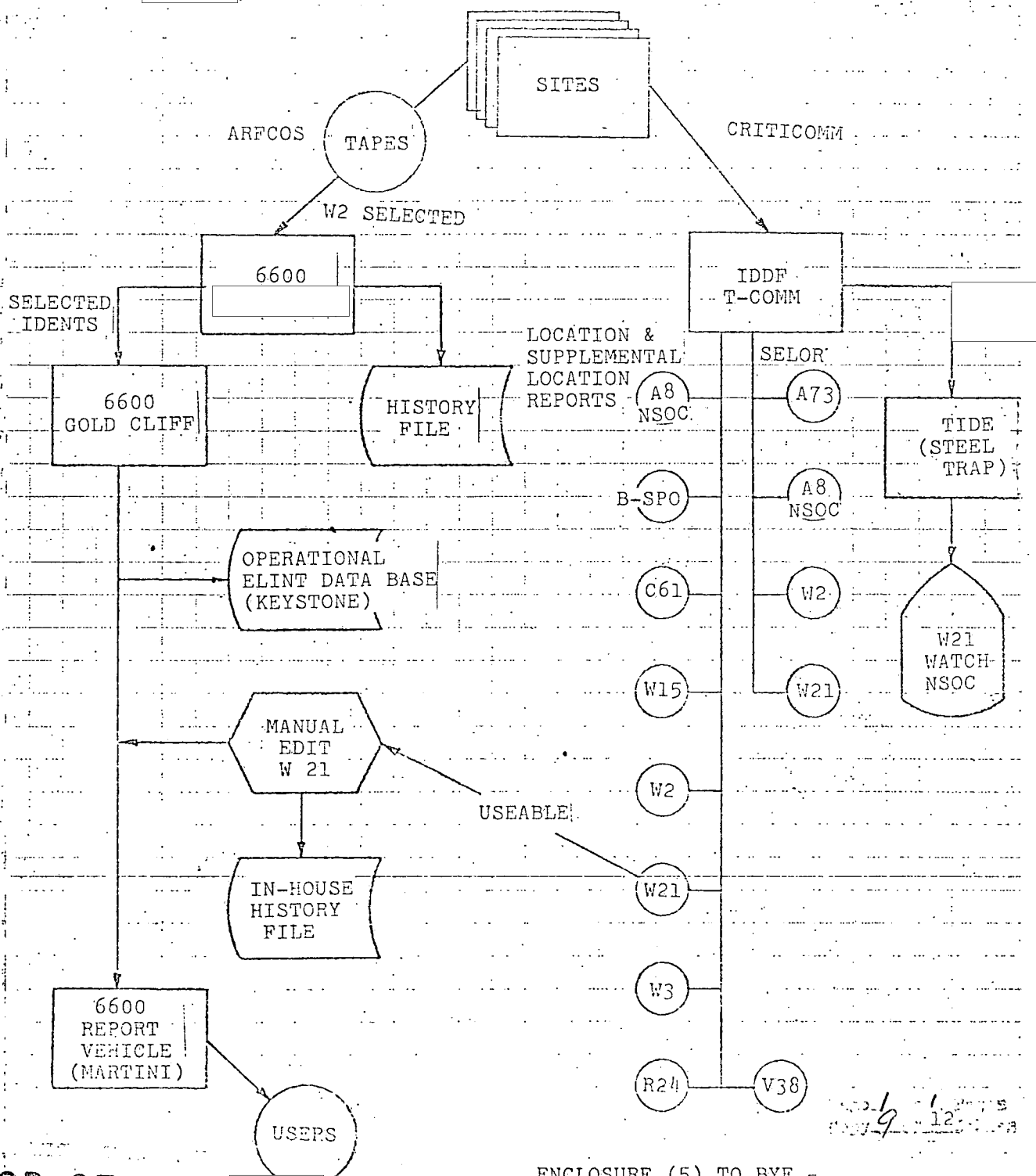
PACIFIC:

[REDACTED] MONITORED THE TRANSIT OF A SVERDLOV COMMAND CRUISER AND A KASHIN FROM THE SEA OF JAPAN TO THE WESTERN INDIAN OCEAN. TRANSIT WAS IN REACTION TO THE DEPLOYMENT OF A U.S. TASK FORCE TO THE WESTERN INDIAN OCEAN. SITE HAS ALSO MONITORED TRANSIT OF A CHILIKIN CLASS OILER TO THE SOUTH CHINA SEA. AOR LINGERING IN THE AREA AND IS APPARENTLY AWAITING DEPLOYMENT OF THE USS ORISKANY FROM SUBIC TO INDIAN OCEAN AND WILL PROBABLY ACT AS A SHADOW.

GENERAL: ON 7 NOVEMBER [REDACTED] MARKED THE TRANSMISSION OF THEIR 20,000TH [REDACTED] ITEM IN 1973.

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FLOW OF REPTILE DATA WITHIN NSA

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ENCLOSURE (5) TO BYE 59863/72

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SECRET 231313Z
 SUBJECT: CUGNAC JUNG CONCH INFO CONVOYER WAKOO CONCERT

BARPOP

CONCERT FOR 0221, WSA

SUBJ: MISSION 7107 PHASE VI ENGINEERING EVALUATION WRAP-UP

A. [] CITE 2512 221320Z MAY 73

1. [] PERSONNEL HAVE COMPLETED A SYSTEM EVALUATION

AT [] SYSTEM HEALTH REMAINS STABLE. SPACECRAFT

~~TOP SECRET~~

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VOLTAGES WERE CHECKED ON EVERY REV BEFORE PERFORMING ANY TESTS AND IN EVERY CASE THE VOLTAGE READINGS WERE EXCELLENT. SOLAR CELL DEGRADATION APPEARS AS EXPECTED.

A PERIOD OF MINIMUM SUNLIGHT IN THE NORTHERN HEMISPHERE CONTINUES THRU THE REMAINDER OF THE CALENDAR YEAR. []

WILL CONTINUE TO MONITOR AT [] AND WILL REPORT ANY SIGNIFICANT CHANGES.

2. THE AGC LEVELS ON VARIOUS SATELLITE COMMAND RECEIVERS WERE OBSERVED AND HIGH NOISE LEVELS EXISTED DURING THE EARLY EVENING HOURS IN THE [] AREA. THIS PROBABLY ACCOUNTS FOR SOME OF THE PREVIOUS COMMANDING PROBLEMS ENCOUNTERED AT []

3A. [] OPTIONS NO LONGER USABLE

OPT-1

OPT-2

7107A: [] NO PROBLEM OBSERVED

7107B: [] NO PROBLEM OBSERVED

7107C: [] BAND 5, 8 & 13 [] BAND 10, 13 & 13

7107D: [] BAND 10, 11 & 21 [] BAND 8, 10, 14, 16 & 23

NOTE: 7107C: BAND 5 OPT 1 AND 7107D BAND 11 OPT 1,

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BAND 3 OPT 2, 12 OPT 2, AND BAND 23 OPT 2 REPRESENT CHANGES SINCE LAST ENGINEERING EVALUATION (REF A).

B. INTERMITTANT OPERATION OBSERVED IN 7107C BAND 21 OPT 1, 7107D BAND 8 OPT 1, AND BAND 9 OPT 2.

C. SLM OPT #1 STILL INOPERATIVE IN 7107D.

SLM OPT #2 STILL INOPERATIVE IN 7107C.

4. A MINOR PROBLEM WAS OBSERVED IN 7107D. WHEN USING

THE DL COMMAND MATRIX FOR COMMANDING DATA LINKS ON

7107D ONLY, IT HAS BEEN FOUND THAT DL 5 IS INTER-

CHANGED WITH DL 2. THE CORRECT TONE PAIR FOR DL 2 IS

1000. THE CORRECT TONE PAIR FOR DL 5 IS 1112.

5. [] PERSONNEL COLLECTED FIRE CONTROL RADAR FROM THE [] ON A NUMBER OF

REVS AT [] RESULTS WERE POSITIVE AND WILL BE

DISCUSSED AT THE NEXT TOG MEETING.

6. [] PERSONNEL WISH TO THANK [] PERSONNEL FOR THEIR COOPERATION AND ASSISTANCE DURING PHASE VI OF THE

EVALUATION.

E-2 IMPDET

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