

SECRET - NO RELEASE VIA ROUTING CONTROL

DATE  
10 OCT 74

ORIGINATOR

BY 10-5

SERIAL NO.

BYE 59, 300-74

ENCLOSURES

(1) AGENDA (2) LIST OF APPENDICES  
(3) MINUTE LATELY VOLUME FLOW (4)  
COLLECTION HYDROLOGICAL (5) PROGRAM FLOW  
HIGHLIGHTS

DATE REC'D

11/5/74

TICKLER DATE

COPY NO.

11, 12

RECEIPT NO.

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SUBJECT

ROUTE SLIP OFF GIP (TO) ALTIMET:  
REPORT OF

DIST INFO

9/26/74

☐ 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).ROUTE  
TO

\*

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NO.W/  
ENCL

SIGNATURE

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Ed F

Tom

RWS 12/3  
10/11/74  
SOF 11/20/74

DESTRUCTION REPORT NO.

FINISH FILE

7.2

REMARKS

NRL INCOMING DOCUMENT



B318-74



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BYE-59936-74

\* A-ACTION  
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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NRL (7030)							

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NRL B. 318  
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OFFICE OF THE DIRECTOR

NAVY SPACE PROJECT OFFICE

~~(S)~~ NATIONAL RECONNAISSANCE OFFICE, PROGRAM C

WASHINGTON, D.C.

PME-106-5

7 October 1974

MEMORANDUM FOR: CHIEF OF NAVAL OPERATIONS (OP955)  
COMMANDER, NAVAL SECURITY GROUP COMMAND  
DIRECTOR, NATIONAL SECURITY AGENCY (A81,R24,W2, & W34)  
DIRECTOR, NRO STAFF (SS4,SS4A and SS7)  
DIRECTOR, CENTRAL INTELLIGENCE AGENCY (OSI)  
DIRECTOR, NAVAL RESEARCH LABORATORY (1000 and 7030)

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

Ref: (a) CONCH 241410Z Sep 74 CITE 0598

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

1. A POPPY TOG meeting was held at the Naval Security Station, Washington, at 0930 on 26 September 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 satellites are healthy and performing in accordance with expectations. The 7107 orbit will provide low sun exposure through the remainder of CY 74. The ratio for today is 74%. The Minimum Daily Voltage plot is forwarded as enclosure (3).

7107B was recently thrust to maintain desired  spacing. This operation was executed without activating the reaction wheels. Current spacing is:

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

The desired spacing for CD was discussed, with no further resolution except to allow this pair to gradually close. By January of 1975 the CD spacing will approach [REDACTED] thrusting will then be required to reverse the drift. No CD thrusting is planned until the lower limit [REDACTED] approached.

On 24 September 7107D came into view of [REDACTED] with the Backup System activated. This caused satellite battery power levels to drop below 11.0 volts, nearing the danger point. Careful monitoring of satellite power levels is requested of the field sites, particularly through the next few months of low sun exposure.

7107D has also exhibited cross-talk from DL8 to DL1 and DL2. This problem has existed since launch and does not hamper routine processing. Task groups have been structured to minimize this problem.

Tentative plans for the next Engineering Evaluation include [REDACTED] in January of 1975, when all satellite systems and options will be exercised.

B. Collection Highlights. (NSG)

The NSG representatives presented enclosure (4). Additional discussion was generated on the [REDACTED] [REDACTED] intercepts. NSG review of [REDACTED] back to January, 1973 indicate that these parameters have been observed several times, but only two probable correlations have been accomplished to date. No evidence exists to refute the association of these unique parameters to the [REDACTED]

C. Processing Highlights. (NSA)

NSA representatives provided the information contained in enclosure (5). Additional discussion was generated in the following:

(1) NSOC is attempting to increase manning to improve their capability to process [REDACTED] data. The A81 watch standing and day worker compliments would be increased so that more

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Subj: POPPY Technical Operations Group (TOG) Meeting; report of on-line SIGINT "fusion" of data to provide ship identification to a greater number of ocean surveillance reports would be accomplished.

(2) SUPERTRACK is under development, with initial, limited capability planned for 1 November. Development/implementation efforts are expected to continue for the next year, at least.

(3) Project DEPARTURE has several tasks underway, including exploiting POPPY data to refine definitions on newly observed modes of [REDACTED] (PRC version of [REDACTED])

(4) SOCOMM OPSCOMM communications coordination between NSA and site analysts continues to bear fruit. Permissible types of traffic on this circuit were discussed, with the general guidelines established that no tasking or work assignment could be levied in a non-record mode: the chain of command must be used for these cases.

D. ON Orbit Calibration. (NSA)

The data are now assembled at NSA and the analysts expect to be able to report results at the next TOG Meeting. In both the July and August calibration data collections, POPPY [REDACTED] The extent of (near) simultaneous calibration is one important aspect to be evaluated in the results.

E. Miscellaneous. (SPO)

The following items were introduced:

(1) POPPY satellite aspect data will again be routinely provided to NSA to support SLM data reduction. As an austerity measure, the routine processing of such aspect data was discontinued in March 1974 - but is being resumed at NSA request. All appropriate backlog data will also be provided. Reference (a) applies.

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

(2) A [REDACTED]

[REDACTED] The effect on POPPY may be to assist in the further automation of site output. A report on this evaluation should be ready for the next TOG meeting.

(3) In the near future the SPO will be staffing a POPPY Equipment Disposition Plan, that is necessitated by the deactivation of [REDACTED] in FY 75 and [REDACTED] in FY 76, and the eventual demise of the 7107 satellites. A separate meeting between concerned parties will be arranged.

3. The next TOG meeting is scheduled for 31 October, and will be hosted by NSA.

  
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STATUS

COLLECTION HIGHLIGHTS

PROCESSING HIGHLIGHTS

CALIBRATION

Enclosure (1) to

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SPO: [REDACTED]

NRL: [REDACTED]

NSG: LCDR COLE  
LT MORGAN  
[REDACTED]

NSA: [REDACTED]

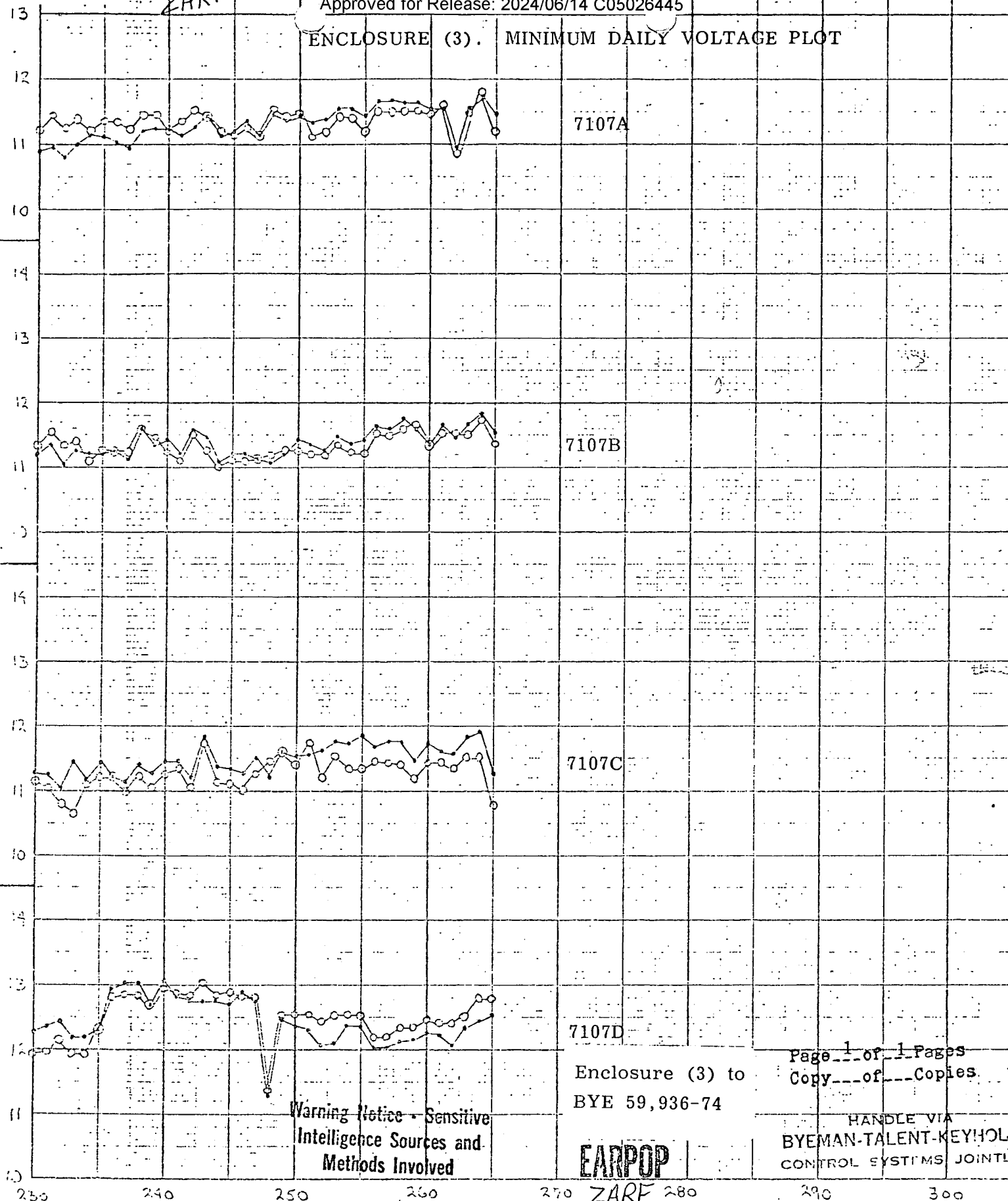
MR KENNETH GALLAGHER  
[REDACTED]Warning Notice - Sensitive  
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ENCLOSURE (3). MINIMUM DAILY VOLTAGE PLOT



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CONTROL SYSTEMCOLLECTION HIGHLIGHTSOCEAN SURVEILLANCE (27 AUG - 23 SEP)

SINCE THE LAST TOG MEETING, THERE HAVE BEEN A TOTAL OF SIX THOUSAND FORTY SEVEN [ ] LOCATIONS. EIGHT HUNDRED FIFTY FOUR OF THESE WERE EQUATED TO MAJOR COMBATANTS AND/OR AUXILIARIES. EIGHT HUNDRED NINETY NINE INTERCEPTS WERE COMBATANT ASSOCIATED BUT COULD NOT BE CORRELATED TO A SPECIFIC HULL. THIRTY SIX INTERCEPTS WERE OF [ ] EMITTERS, INCLUDING ONE OUT OF AREA INTERCEPT IN THE NORWEGIAN SEA (6702N/00651E). FOUR THOUSAND TWO HUNDRED FIFTY EIGHT INTERCEPTS OF MERCHANT ASSOCIATED RADARS WERE REPORTED. SPECIFIC HIGHLIGHTS ARE:

1. THE INCREASED NUMBER OF [ ] REPORTED IS A REFLECTION OF THE INCREASED TASKING FOR MERCHANT RADARS IN SUPPORT OF PROJECT BACK-SCRATCH (SEE ITEM 5. BELOW).

[ ]  
EMITTERS EMPLOYING CHARACTERISTICS THAT WERE FINGERPRINTABLE. A TOTAL OF THREE HUNDRED NINETY ONE LOCATIONS WERE REPORTED, WITH ONE HUNDRED FORTY SIX BEING ISOLATED TO THE ABOVE ARBITRARY DESIGNATORS.

3. SPECIAL PHILLIPINE SEA REPORTING TASK: RE-IMPLEMENTED ON 6 SEP AGAINST NEW/UNUSUAL SIGNALS AND [ ] ASSOCIATED EMITTERS.

4. SPECIAL NORWEGIAN SEA REPORTING TASK: 22 - 30 AUG AGAINST AGI's AND [ ]

[ ] TASK REQUIRED TIME CRITICAL REPORTING OF [ ] RADARS. A TOTAL OF FORTY THREE UNEQUATED SIGNALS WERE REPORTED WITH AN AVERAGE REPORTING TIME OF 4.6 HOURS. THESE REPORTS ARE PROCESSED AND REPORTED AFTER MAJOR COMBATANT RADARS WHICH ARE USUALLY REPORTED WITHIN ONE HOUR.

5. PROJECT BACKSCRATCH: TASK WAS LEVIED BY CINCLANTFLT ON 10 SEP AGAINST MERCHANT TYPE RADARS FOR TIP-OFF OF SOVIET MOVEMENT IN AN AREA OF U. S. SPECOPS OFF THE COAST OF PORTUGAL/BAY OF BISCAY. TWO HUNDRED TWENTY SIX INTERCEPTS HAVE BEEN REPORTED TO DATE IN SUPPORT OF THIS TASK.

6. KYNDA CLGM VARYAG, KANIN DDG GNEVNYY, AND AOR KOYECHITSKIY TRANSITED EAST IN THE PACIFIC AND HELD OPERATIONS OFF THE HAWAIIAN ISLANDS, AND HAVE SINCE RETURN TO THE SEA OF JAPAN.

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7. KRESTA II CLGM's ADMIRAL NAKHIMOV AND ADMIRAL MAKAROV DEPARTED THE MEDITERRANEAN ENROUTE TO THE CARIBBEAN.

8. A NEWLY CONVERTED KASHIN DLGM OGNEVOY EXITED THE BALTIC SEA AND WAS TRANSITING THE NORWEGIAN SEA ENROUTE TO THE NORFLT WHEN IT HEADED SOUTH TO POSITION ITSELF FOR THE SURVEILLANCE OF THE NATO EXERCISE "NORTHERN MERGER".

9. KRESTA II CLGM KRONSTADT AND AOR DNESTR EXITED THE BARENTS SEA, AND KRIVAK DDGSP BDITEL'NYJ EXITED THE BALTIC SEA, ALL IN SURVEILLANCE OF THE NATO EXERCISE "NORTHERN MERGER", BEING HELD IN THE SOUTHERN NORWEGIAN SEA AND NORTH SEA.

10. SSOCS A. S. KOROLEV EXITED THE BLACK SEA AND IS TRANSITING EAST IN THE MEDITERRANEAN SEA.

11. AN EXERCISE OF UNDETERMINED NATURE IS BEING HELD IN THE EASTERN BLACK SEA.

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TECHNICAL INTELLIGENCE AND EOB:

1. PROJECT FLAVOR: SEVENTY THREE INTERCEPTS OF SA-6 EMITTERS WERE REPORTED SINCE LAST TOG.
  2. [ ] HAS ACCOMPLISHED WHAT THEY BELIEVE ARE TWO INTERCEPTS OF [ ] IN THE 4850-5250 MHZ RF BAND. PREVIOUSLY, ONLY THE [ ] WAS CONFIRMED AS OPERATING IN THIS BAND. ACCORDING TO THE SITE, THE SCANNING CHARACTERISTICS ARE INDICATIVE OF THE [ ]
  3. ON 20 SEPTEMBER, [ ] REPORTED AN INTERCEPT OF [ ] OPERATING WITH AN 8 ELEMENT, 8 POSITION STAGGER. THEY ALSO REPORTED ANOTHER [ ] ACTIVE AT THE SAME TIME IN A PULSED CONSTANT MODE. DISCUSSIONS WITH SITE ANALYSTS INDICATE THEY HAVE A LOCATION OF A [ ] WHICH IMPACTS IN THE EASTERN BLACK SEA IN THE GENERAL VICINITY OF THE SOVIET NAVY FALL EXERCISES. SEVERAL MAJOR COMBATANTS ARE IN THE AREA AT PRESENT, HOWEVER, SIGNAL COULD NOT BE EQUATED TO ANY OF THE VESSELS. HAVE NO FURTHER INFORMATION AT THIS TIME.
  4. THERE WERE A NUMBER OF [ ] INTERCEPTS WHICH DISPLAYED VARIOUS STAGGER MODES.
  5. ON 10 SEPTEMBER, AN INTERCEPT OF [ ] DISPLAYED UNUSUAL STAGGER VALUES OF 345, 368, AND 713 USEC. STAGGER WAS A THREE ELEMENT SEVEN POSITION STAGGER. A CHECK OF PAST INTERCEPTS REVEALED ONLY ONE PREVIOUS INSTANCE WHEN POP GROUP WAS NOTED NOT USING A 16, 22, OR 63 USEC STAGGER INTERVAL.
- ON 12 SEPTEMBER, [ ] INTERCEPTED WHAT WAS PROBABLY A [ ] FROM A [ ] SIGNAL WAS GEOPOSITIONED IN THE AREA OF VLADIVOSTOK. PRF WAS MEASURED TO 3367.077 PPS WHICH EQUATES TO THE 96TH DIVISOR OF THE 323.2 KHZ CRYSTAL BELIEVED TO BE USED IN THE [ ]
- [ ] ACCOMPLISHED AN INTERCEPT OF A [ ] ON 19 SEPTEMBER FROM THE BARENTS. [ ] WAS USING A PRF OF 1122.365 PPS. THIS ALSO EQUATES TO THE 323.2 KHZ CRYSTAL OF [ ]

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PROCESSING HIGHLIGHTS

SINCE THE LAST TOG MEETING, THE FOLLOWING ITEMS HAVE OCCURRED:

1. MISSION 7107 INTERCEPT OF AN UNIDENTIFIED SIGNAL TO THE PEOPLES REPUBLIC OF CHINA (PRC).

RECENTLY MISSION 7107 [ ] COLLECTED AN INTERCEPT OF AN UNIDENTIFIED I-BAND SIGNAL WHICH WAS GEOPOSITIONED TO 4053N, 11400E. SIGNAL PARAMETERS WERE AS FOLLOWS:

RF 9100-9340 MHZ AND 9340-9400 MHZ

PRF 2496.26 PPS

SCAN IREG/STEADY/AND 3.9 HZ

AN ATTEMPT IS BEING MADE TO ASSOCIATE THESE PARAMETERS WITH [ ] AS A NEW PRF MODE. THE [ ] EMITTER USES A UNIQUE CRYSTAL OSCILLATOR FREQUENCY (94919 HZ); THE PRF SUMMARIZED ABOVE EQUATES TO THE 38TH DIVIDER. A TECHNICAL REPORT IS IN PREPARATION.

2. [ ]

ON 25 AUGUST [ ] INTERCEPTED AN UNIDENTIFIED SIGNAL IN THE 4050-4850 MHZ BAND WITH PRF AND SCAN SIMILAR TO THE 2GHZ SIGNAL [ ]

INTERCEPT PARAMETERS:

RF 4050-4850 MHZ BAND

PRF 366.17 PPS

SCAN 19.8 SPR

THE SIGNAL WAS INTERCEPTED BY ONLY ONE SATELLITE; THEREFORE NO GEOPOSITION WAS MADE. A QUERRY TO THE FIELD SITE ALSO REVEALED THAT THE NORMAL [ ] BAND WAS NOT ACTIVATED.

OF INTEREST IS AN NSD DRAFT ELT ON A PROBABLY 2GHZ [ ] IN PRF SYNC WITH AN UNIDENTIFIED 4296 MHZ SIGNAL EMANATING FROM ODESSA AREA. THE ELT WAS LATER CANCELLED ON THE ASSUMPTION THAT THE 4GHZ SIGNAL WAS A HARMONIC.

A CHECK OF THE PAYLOAD POSITION AT TOI REVEALED THAT THE ODESSA AREA WAS VIEWABLE BY 7107.

DUE TO THE FACT THE SIGNAL [ ] WAS COLLECTED WITH THE SLM OPTION ACTIVATED, ADDITIONAL DETAILED ANALYSIS WILL BE PERFORMED BY PROJECT DEPARTURE.

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3. [ ] CONCLUDED

BACKGROUND: EARLY IN 1974 [ ] BEGAN REPORTING AN UNIDENTIFIED SIGNAL IN THE 970-1205 MHZ RECEIVER BAND, THE SIGNAL WAS NEVER GEOPOSITIONED. FOR SOME UNEXPLAINED REASON, INTERCEPT OCCURED ON ONLY ONE OF THE TWO TASKED SATELLITES (7107C). INTERCEPTS WERE FREQUENT AND LENGTHY WITH SOME IN EXCESS OF TEN MINUTES. WITH SOME TWENTY-FIVE INTERCEPTS IN HAND, W34 ANALYSTS ASSUMED A UNIQUE LOCATION AND PLOTTED A SIMPLE RADIO HORIZON LOCATION, THE SIGNAL SOURCE WAS IDENTIFIED AS [ ] IN THE GENERAL [ ] WITH THE KNOWLEDGE OF THE [ ] AIRPORT, WE BEGAN TO RESEARCH THE RADAR INVENTORY.

THE [ ] AS THE PRIMARY TARGET ACQUISITION RADAR. THIS RADAR IS NOTATED AS [ ] UNFORTUNATELY THE PARAMETER SET IN THE ELINT PARAMETER LIST IS INCOMPLETE AND DOES NOT REFLECT THE TOTAL OPERATIONAL CAPABILITY OF THE RADAR. DATA FROM BOTH THE MANUFACTURER SPECIFICATIONS AND 7107 COLLECTION HAS NOW BEEN INCLUDED IN AN AMENDED [ ] NOTATION.

4. [ ]

A FINAL ANALYSIS REPORT HAS BEEN COMPLETED ON [ ] THE REPORT TITLED: "PRI AND SCAN SYNCHRONIZED UNIDENTIFIED SIGNAL" THE REPORT IS NOW IN FINAL COORDINATION, WITH PUBLICATION ANTICIPATED WITHIN THE MONTH.

## SUMMARY OF CONTENTS:

AN UNIDENTIFIED SIGNAL WAS COLLECTED BY MISSION 7107 ON 02 JUNE 1974. PRI AND SCAN SYNCHRONIZED DATA WERE OBSERVED IN THE FOLLOWING RF BANDS:

2680-2930 MHZ

9340-9400 MHZ

9400-9615 MHZ

SIGNAL PARAMETERS PRF 1249.442 PPS (TRUE)

SCAN BI-DIRECTIONAL SECTOR, UNDETERMINED RATE

AND CIRCULAR WITH RATES FROM 9.2-9.8 SPR

THE SIGNAL WAS GEOPOSITIONED TO THE TIBLISI SAM SITE AT COORDINATES OF 4129N 4437E (10X7NMI).

DUE TO THE LACK OF MORE DEFINITIVE SCAN INFORMATION NO ASSESSMENT COULD BE MADE AS TO THE MISSION AND FUNCTION OF THE RADAR.

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