Approved for Release: 2024/06/12 C05026122 MINEUS T EARPOP BYEMAN (

HANDLE VIA BYEMAN

CONTROL SYSTEM

15	May 1970	•
B40)2 <i>Z</i>	

PROJECT EARPOR RF: 2100-2300 MHZ PRF: 80-90 PPPS, Stable with doublets spaced approx 195 USEC

PRI: 11111-12500 USEC

SCAN: Irregular. Five-on, five-off pulsing causes an apparent

complex scan of 8.0-9.0 HZ, one-tenth the PRF.

BW: UNK

Notes: Function is missile acquisition at ABM sites. First . Intercept from intercept and location from POPPY extremely rare due to limited deployment and to the fact that the emitter will be working within a narrow sector corresponding to its target.

ADDS CHANNELS: 07/06 13/12

- 1. ATCON against the master digital recording on appropriate channels.
- 2. PRI SORT for variant limits against ATCON on MT from 10526 to 13333 USEC.
- 3. REJECT SORT against PRI SORT on MT from 5263 to 6667 USEC. Retain the REJECT SORT.
- 4. DNTAC against the REJECT SORT with 15 USEC error, minimum PRI of 10526, maximum PRI of 13333 USEC, 2 intervals to establish a burst and a maximum of 2 pulses dropped
- 11 against the DNTAC to properly sequence the data. PRI sort against the reciprocal of the analog analysis PRF plus and minus 25 USEC. intercept should also be processed through DELTAC for tight parameters if the mission is already being processed for a location candidate.
- 6. DELTAC against the BSTRAN with SS#2 set and 1.0 second scan. Most bursts will be developed from POPPY trigerring on the second pulse in the doublet; however, occasional phase shifts of about 200 USEC in the WTT shift column will indicate that POPPY triggerred on the first doublet for one or more bursts. These bursts should be rejected with the BSTRAN line reject option followed by a second DELTAC run.
- 7. HRBLOC against the DELTAC output. Zero any inputs derived from less than five pulses per burst if remaining data is sufficient to develop a reliable location.
- 8. PRI SORT against the REJECT SORT using the DELTAC average PRI plus and minus 15 USEC.
- 9. PICAP SPECIAL from 150 USEC against the PRI SORT. provide distribution for averaging the interval between pulse doublets, if intercepted.
- 10. It is not possible to distinguish the correct going means other than incompatible image. Deployed Sary Shagan and Moscow areas.

CONTROL SYSTEM BYEMAN CHANNELS PROJECT

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Continued

CONTROL SYSTEM

11. Writeup package should include PICAP, DELTAC and HRBLOC output sheets. If the location is not considered reliable, then run a series of locations with various inputs weighted zero. Plot the resulting locations, connect the points and report a line of position, or report the bearing of the LOP with reference to the impact point reported.

12. In the comments section of the location report provide the parameters of any additional emitters with different parameters which were active during the same mission.

R. L. POT

LT USN

HANDLE A BYEMAN

CONTROL ASSEM

SECRET EARPOP BYEMAN CHANNELS

4 OF 5

TWX235
RE RUXQAAJ
DE RUXQAA 965 1361602
ZNY XXXXX VVV
R 161600Z
aT
XXXXX

TOP-SCORE

liandle via BYEMAN Control System

T-0-P-S-E-C-R-E-T 181659Z NAY 1970 CITL CONQUER 388
ROUTINE WAHOO, MARGO INFO ROUTINE PHUBE
EARLOP .
1. INCREASED SEPARATION 7105C/D PAYLUADS (CURRENILY APPRUX-
INATELY 500 NM.) HAS SEVERLY LIMITED OPPORTUNITIES TO APPLY
FIELD GEOLOCATING PROCESSING TECHNIQUES TO MAJORITY INTER-
CEPTED SIGNALS. OF SIGNALS CURRENTLY ON PROCESSING PRIORITY LIST
FOR ONLY THE ENITTER CAN STILL BE EFFECT-
IVELY PROCESSED DUE TO ITS STABLE PULSE RATE AND KELATIVELY WIDE
SEAH WIDTHS. 7105C/D SPACING IS CONTINUING TO INCREASE AT RATE
APPROXIMATELY 10 No PER DAY.
2. IN VIEW ABOVE, RECOMMEND COMSIDER INCLUDING TASK-
ING ON ALL 7105C/D ORBITS UVER IN ORDER MAXIMIZE COLLECTION
OF PROCESSABLE DATA. ESTIMATE ENITTER INTERCEPTS WILL BE
UNPROCESSABLE DUE TO LACK OVERLAPPING ILLUMINATION WITHIN NEXT TWO
WEEKS IF CURRENT ACCELERATIONS PAYLOAD 7105C/D COMINUE.
TOPSECRET
BT

> Kandle via BYEMAE Control System

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CONTROL NO.

REFERRED TO	RECEIVED				ASED	SEEN BY	
OFFICE	SIGNATURE	DATE	TIME	DATE	TIME	NAME & OFFICE SYMBOL	DATE
CAPT							
1830 RADIN	Some for		/				
	0						

Handle Via Indicated Controls BYEMAN



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

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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.

NRL22-70

TOP SECRET NOT SIGNED

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Hardle Via BYEMAN Control system only























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NNNNTWX177 RR RUXQAAJ DE RUXQAA 834 1331600 ZNY XXXXX VVV R 131557Z BT XXXXXX

Hardle via BYEMAT Control System

R 130100Z FM TO COMMANSECGRU

CNO COMNAVINTCOM DIRNSA YSNKQAC/SAFSS (FUR SOC)

TOPSECRETBBBBB BYEMAN-EARPOP CHANNELS

DIRNSA FOR K4

SOC FOR

CNO HOLD AND PASS TO NRL 7106A REGENERATIVE BAND 11

A. YOUR 011922Z MAY 70

1. EVALUATION AS OUTLINED REF A CONDUCTED WITH THE FOLLOWING HOR! ZONTAL

A. ALL GROUPS WITH DL 11 ACTIVATED IN VERTICAL POLARIZATION OPTION HAD NO REGENERATIONS DURING PASSES. DATA DENSITY WAS LIGHT BUT GOOD.

HT BUT GOOD.

JERTICAL

B. ALL GROUPS WITH DL 11 ACTIVATED IN FREEZONTAL PULARIZATION OPTION WERE REGENERATIVE THRU APPROXIMATELY 90 PERCENT OF EACH PASS. ON ORBITS 3080 AND 3093, TASKED GROUPS WOULD NOT TAKE ON THE INITIAL INTERROGATION. SECOND INTERROGATION ATTEMPTS WERE SUCCESFUL WITH REGENERATION NOTED ALMOST IMMEDIATELY. 2. RESUMED NORMAL OPERATIONS 122359Z MAY 70.

175

5-14-70 5-14-70 5614

Handle via Byenan Centrol System

B1291-92

NNNNTWX180
RR RUXQAA
DE RUXQAA 849 1332100
ZNY XXXXX VVV
R 132100Z
ET
XXXXX



R 1306437

TO COMMAVSECGRUINFO CAO COMMAVINTCOM DIRNSA ZEM

S 2 C R E T BBBBB EARPOP/BYEMAN CHANNELS

CIND HOLD AND PASS TO NRL

DIRNSA FOR K4

COMNAVSECGRU 011922Z MAY 70

7106 ALFA REGECLRATIVE BAND 11

1. TESTS ON 7106 ALFA BAND 11 WERE CONDUCTED THIS/STATION IN ACCORDANCE WITH REF. THE FOLLOWING ARE THE RESULTS OF THESE TESTS:

A. O50001Z-082559Z MAKING THIS PERIOD SEVEN UNGITS WERE ACTIVATED WITH DL "A"SELECT ONLY. HEGENERATION WAS NOT WOLLD AT ANYTHME DURING THESE SEVEN ORBITS AND DATA DENSITY 33. 3D NORMAL. ORBIT 3036 ON 06 MAY 1970 SHOULD BE CONSIDERED INVALID FOR TEST PURPOSES AS IT WAS ACTIVATED WITH A AND E SELECT.

B. 090001Z-122359Z MAY: DURING THIS PERIOD SEVEN ORBITS WERE ACTIVATED WITH DL "B" SELECT ONLY. DURING THESE SEVEN ORDITS HEAVY REGEN NOISE WAYBNOTED WHENEVER DL "B" SELECT WAS ACTIVATED. RESETS AND REACTIVATIONS WERE OF NO AVAIL AS THE REGEN WAS EVER PRESENT.

2. THE CONCLUSION CAN BE REACHED THAT DL 11 SHOULD SE TASKED IN THE ALFA OPTION ONLY.

owned

5-14-70

ON IN
HESE TESTS:
RE ACTIVATED
NYTIME

5619









NNWNTWX190
P P RUXGAAJ
DE RUXGAA 874 1341049
ZNY XXXXX VVV
P 141048Z
BT
XXXXX

Handle via 1711

Source System

5-14-70

5614

5170

P 131636Z ZYS
FM COMNAVINTON
TO CINCLANTFLT
COMNAVSACGRU
INFO ZENZCHO
CINCUSNAVEUR
YDHDDRCZUSCOMEASTLANT
COMSIXTHFLT
ZENZRL

TOPSECRET BEBBB EARPOP BYELAN CUNTROL SYSTEM SPECIAL SHIPLORNE LOCATION REPORTS LANT

- A. CINCLANTFLT 082041Z MAY 70
- 1. USIB HAS APPROVED POPPY SUPPORT TO REQUIREMENT EXPRESSED REF A. AUTHORITY RECEIVED PERMITS TASKING OF PRESENTLY UNTASKED ORBITS OVER MORTH ATLANTIC AND PERMITS TO

ETINATING FRUM CHG LENINGEAD

THREDIATELY AFTER PROCESSING UNIDENTIFIED SIGNALS
DURATION OF SUPPORT NOT SPECIFIED, AND WILL CONTINUE UNTIL
LENINGRAD INTERCEPTED BY LANTFLT SURVEILLANCE UNITS, OR UNTIL
REGULARIZAT IS OTHERWISE TERMINATED.

2. FOR COMMANSECTRU. REQUEST TAKE NECESSARY ACTION TO IMPLEMENT SUPPORT AUTHORIZED. PROCEDURES FOR SPOT RPORTING REMAIN UNCHANGED.
180

Control System

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C05026122 Approved for Release: 2024/06/12 C05026122 WMMMMX186 RR RUXCAAJ DE RUKGAA 863 1341020 Handle via BYENAN Centrol Systems = 14-70 5614 5170 ZNY XXXXX VVV R 141019Z BT XXXXX P R 131928Z Fr COMNAVSECGRU INFO CNO COMNAV INTCOM CINCUSNAVEUR CINCLANTFLT COUSIXTHFLT USCONEASTLANT DIRNSA YSNKQAC/SAFSS(SOC) NFO IO ZEM I O P S E C R E T BBBBB BARTOP BYEMAN CHANNELS CNO HOLD AND PASS TO NRL DIRNSA FOR K4 SOC FOR SPECIAL REPORT REQUIREMENT (U) A. CINCLANTFLT 082041Z MAY 70 NOTAL 1. REF A REQUESTED CONTINUATION RECENT POPPY OCEAN SURVEILLANCE COVERAGE AND GEOLOCATION REPURTING FOR INTERCEPTS CHG LENINGRAD EMITTERS ONLY. THIS REQUEST, BASED ON ASSUMPTION LENINGRAD WILL RETURN TO MED/BLACK SEA VIA ATLANTIC, APPROVED BY (SORS) WITH IMMED EFFECT. EFFORT WILL BE TERMINATED WHEN LENINGRAD IS CONTACTED BY SURVEILLANCE UNITS OF LANTELT. 2. COMMENCING UPON RECEIPT, PROCESS INTERCEPTS IN SECOND PRIORITY AFTER AND REPORT AT IMMEDIATE PRECEDENCE IN TANGO/KILO CHANNELS OFFINET TO CINCLANTFLT AND CINCUSNAVEUR, INFO/FRIORITY TO CNO. COMNAVINTON, COMNAVSECGRU, COMSIXTHFLT, NEUTO AND INCLUDE PASSING INSTRUCTIONS "CINCUSNAVEUR HOLD AND PASS TO USCOMEASTLANT" AND REPORT IN FOL FORMAT: Handle via Byenax SPECIAL SHIPBORNE LOCATION REPORT - CHG LENINGRAD Control System 1. INTERCEPT TIME 2. EMITTER NAME 3. LOCATION AND LOCATION QUALITY RATING (EXCELLENT, GUOD, FAIR, POOR)

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CONTINUE TO REPORT ALL SHIPEORNE LOCATIONS USING EXISTING

3. AUTH GRANTED UTILIZE UNTASKED ORBITS BETWEEN 150-170 DEGREES EQX FOR SUPPORT ABOVE SPECIAL REPORTING REQUIREMENT USING 7105/7106 TASK GROUPS 33/34 AND ROZ RESPECTFULLY.
4. MOST RECENT NFOIO ANALYSIS INDICATES LENINGRAD STILL

FORMAT IN THE SUPPLEMENTARY LOCATION REPORT.

IN NORFLT AREA, POSS IN-PORT.

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