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TRANSMITTED
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RR RUKQAAG RUKQAAL RUKGTA RUKQAAA
DE RUKQAAG 499 2591757
ZNY XXXXX VVV
R 151745Z
BT
XXXXX
GUARD 499
GUARD PASS COGNAC CONQUER CONCERT WHIG.

SEP 16 10 02 AM '44
NRL SSO/SAO OFFICE

~~SECRET~~ 151745Z SEP 72 CITE [] 0527
ROUTINE COGNAC INFO CONQUER CONCERT WHIG
EARPOP

(b)(1)
(b)(3)

AUGMENTATION STATUS REPORT - POPPY AUTOMATIC PROCESSING SYSTEM (PAPS)

1. LAST MONTH A MAJOR MILESTONE WAS MET IN THE 86 SYSTEM DEVELOPMENT WITH THE DEPLOYMENT OF THE COMPUTER AND SOFTWARE TO [] ON SCHEDULE AND IS CURRENTLY IN THE SYSTEM TEST AND OPERATOR TRAINING PHASE.
2. PRIOR TO SHIPMENT, FINAL REVIEW OF THE SYSTEM WAS HELD ON 8 AUG AND ATTENDED BY 3 REPS EACH FROM COGNAC AND [] 4 REPS FROM CONCERT, AND 1 REP EACH FROM CONQUER AND WHIG.

A. THE ENTIRE SYSTEM WAS DESCRIBED FROM AN OVERVIEW OF BASIC POPPY FIELD PROCESSING SYSTEM THRU DETAILS OF PAPS SYSTEM. EXTENSIVE EXPLANATIONS OF SYSTEM BEING DEPLOYED INCLUDED:

- AUTO SEQUENCE DRIVER (ASD)
- DATA BASES (PROCESSING & SYSTEM)
- TADET
- BSORT
- SIREF
- EMLOC
- BIPLT
- ELOPT

PAGE 2 CITE [] 0527 ~~SECRET~~

B. THE COMPUTER WAS RUN AGAINST ACTUAL [] DATA TAPES DEMONSTRATING ALL MAJOR FEATURES:

- (1) AUTOMATIC PROCESSING FROM SDCS/CAT INPUT THRU LOCATIONS.
 - (2) AUTOMATIC DATA ASSESSMENT WITH FULL RANGE STATUS MESSAGES FROM LOCATIONS TO ABORTING.
 - (3) DATA BASES CONTAINING ALL PROCESSING AND SYSTEM PARAMETERS WERE ESTABLISHED AND PARAMETERS INTER-CHANGED TO SHOW THE EASE OF MAINTENANCE.
 - (4) THE FLEXIBILITY OF THE MANUAL OVERRIDE AT ANY POINT IN THE PROCESSING SEQUENCE WITHOUT LOSS OF DATA WAS DEMONSTRATED. ALSO, VARIOUS LEVELS OF DATA PRINTOUTS AND DISPLAYS WERE SHOWN.
 - (5) PROCESSING OF EACH MODULE (TADET, BSORT, SIREF, EMLOC, BLOPT AND BIPLT) WAS DEMONSTRATED SEPARATELY SHOWING FEATURES OF EACH MODULE.
- C. EMITTERS WERE PROCESSED AUTOMATICALLY COVERING ALMOST THE ENTIRE DUAL BALL FREQUENCY RANGE OF POPPY (FROM TALL KINGS IN THE 165 TO 200 MHZ RANGE [])

(b)(1)
(b)(3)

RANGE). IN THE INITIAL PROCESSING SEVERAL MINUTES WERE USED FOR LOADING THE DATA FROM MAGNETIC TAPE TO THE COMPUTER. THEREAFTER, THE TIME BETWEEN LOCATIONS WAS FROM 13 TO 27 SECS.

D. FOLLOWING UP THE MAY REVIEW (WHERE HANDOUTS WERE PROVIDED) DESCRIBING THE TECHNIQUES WHICH WERE TO BE USED TO ACHIEVE THE AUTOMATIC PROCESSING CAPABILITY CALLED

PAGE 3 CITE [] 0527 ~~SECRET~~

FOR IN THE FEB STATEMENT OF WORK), COMPUTER RUNS AND PRINTOUTS WERE PROVIDED FOR THE ATTENDEES SHOWING THE ACHIEVEMENT OF THESE GOALS.

E. THE SUPPORTING EMITTER STATISTICS AREAS WERE DISCUSSED ILLUSTRATING THE STATUS OF THE COMPUTER TOOLS TO ASSIST THIS AREA. THE NUMBER OF SAMPLES OF THE VARIOUS EMITTER FAMILIES, EXCEPT HEAD NETS, STILL REMAINS LOW, AND ACCURATE PROCESSING SEQUENCE PARAMETERS WILL HAVE TO BE DEVELOPED AT THE FIELD STATION.

F. THE NEW ORBIT MODEL OF NAVSPASUR AND THE ONE-LINE EPHEMERIS TRANSMISSION CODE WERE DISCUSSED. STATISTICAL AND GRAPHICAL COMPARISONS OF ALL THE ORBIT MODELS AND TRANSMISSION CODES WERE DESCRIBED IN DETAIL.

G. THE NEXT REVIEW WILL BE HELD IN THE LATTER PART OF OCTOBER AND WILL BE SIMILAR TO THE MAY REVIEW, NAMELY, REVIEW OF TECHNIQUES TO BE EMPLOYED FOR MEETING ON-LINE SYSTEM GOALS.

3. TRAINING OF TWO [] OPERATORS WAS EXTENDED UNTIL THE SYSTEM WAS PREPARED FOR SHIPMENT. THE NEED FOR FORMAL TRAINING PROGRAMS ON THE SYSTEM HARDWARE AND SOFTWARE REMAINS SIGNIFICANT.

4. THREE VOLUMES OF OPERATOR DOCUMENTATION WERE COMPLETED AND DEPLOYED ON SCHEDULE DESCRIBING THE PROCESSING SYSTEM UTILIZED FOR THE SEPTEMBER TO JANUARY PERIOD. VOLUME I DETAILS THE THEORY OF SYSTEM OPERATIONS. THIS MANUAL PROVIDES THE CONCEPTS OF PAPS, THE MATHEMATICAL RELATIONSHIPS USED, AND THE BASIC ALGORITHM FLOWCHARTS. VOLUME II PROVIDES THE OPERATOR WITH STEP

(b)(1)
(b)(3)

PAGE 4 CITE [] 0527 ~~SECRET~~

BY STEP PROCEDURES FOR OPERATING THE PAPS SYSTEM. VOLUME III PROVIDES THE OPERATOR WITH PROCEDURES USED IN SYSTEM SUPPORT FUNCTIONS AND THE DESCRIPTION OF THE 51 PAPS SUBROUTINES. THE JANUARY MANUALS WILL SUPERSEDE THESE AND DESCRIBE THE ON-LINE SYSTEM ALSO.

5. MAJOR EFFORTS FOR THE PAST MONTH HAVE BEEN SYSTEM TEST AND EVALUATION, PACKING, SHIPPING AND INSTALLATION. THE NEXT MONTH'S EFFORTS WILL BE SPENT PRIMARILY IN SUPPORTING FIELD OPERATIONS, FURTHER TESTING AND EVALUATION. E-2 IMPDET.

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BT

SECURITY CLASSIFICATION
~~Secret~~ Earpop

FORM	BIRTH	MONTH	SINGLE
		X	

PREFERENCE

ACTION Routine

INDEX Routine

FROM: []

INFO: CONQUER, CONCERT, WHIG

TO: COGNAC

SPECIAL INSTRUCTIONS

HANDLE VIA
 BYEMAN CON-
 TROL SYSTEM

~~SECRET~~ EARPOP CITE []

AUGMENTATION STATUS REPORT--POPPY AUTOMATIC PROCESSING SYSTEM (PAPS)

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- DATA BASES (PROCESSING & SYSTEM)
- TADET
- BSORT
- SIREF
- EMLOC
- BIPLOT
- BLOPLOT

DATE	TIME
15	1015
MONTH	YEAR
09	1972
PAGE NO.	NO. OF PAGES
1	4

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D R A F T E R	TYPED NAME AND TITLE	PHONE	R E L E A S E R	SIGNATURE
	L. M. HAMMARSTROM Section Head	3060		TYPED (for stamp) NAME AND TITLE
SECURITY CLASSIFICATION			REGRADING INSTRUCTIONS	
SECRET EARPOP				

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Routine
Routine

HOL

LMH

HOL
3060

B. THE COMPUTER WAS RUN AGAINST ACTUAL [] DATA TAPES DEMONSTRATING ALL MAJOR FEATURES:

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(1) AUTOMATIC PROCESSING FROM SEDSCAF INPUT THRU LOCATIONS.

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NO.	FOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		2			
READING INSTRUCTIONS				SECURITY CLASSIFICATION SECRET EARPOP	

173-1

~~SECRET~~ EARPOP

Routine
Routine

HOL

LMH

PHONE
3060

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FORM NO.	148/TGD	PAGE NO. 3	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
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173-1

SECURITY MESSAGE
CONTINUATION SHEET

~~SECRET~~ EARPOP

E	RECEIVED	DRAWN	PHONE
Routine			
Routine	HOL	LMH	3060

BY STEP PROCEDURES FOR OPERATING THE PAPS SYSTEM.
 VOLUME III PROVIDES THE OPERATOR WITH PROCEDURES USED
 IN SYSTEM SUPPORT FUNCTIONS AND THE DESCRIPTION OF THE
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 EVALUATION.

TO	TOP/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
		4	4		
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION SECRET EARPOP	

173-1

CONTROL SYSTEM

NAVY SPACE PROJECT OFFICE (PM 16)
~~(S)~~ NATIONAL RECONNAISSANCE OFFICE, PROGRAM C

WASHINGTON, D.C.

OFFICE OF THE DIRECTOR

Classified By BYEMAN
Exempt From GDS of Executive
Order 11652 Exemption Category
PARA 5B(2) AND (3) Automatically
Declassified on Impossible
to Determine

Warning Notice - Sensitive
Intelligence Sources and
Methods Involved PM-16-411/dhs
21 September 1972

MEMORANDUM FOR DIRECTOR, NAVAL RESEARCH LABORATORY
DIRECTOR, NATIONAL SECURITY AGENCY
DIRECTOR, CENTRAL INTELLIGENCE AGENCY
DIRECTOR, NRO STAFF (SS-4) AND (SS-7)
COMMANDER, NAVAL SECURITY GROUP
CHIEF OF NAVAL OPERATIONS (OP-094)

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

Encl: (1) List of Attendees
(2) TOG Agenda
(3) CNSG Input to TOG of 24 August 1972

1. A TOG meeting was held at 0930, 24 August 1972, at NSG.
The list of attendees and agenda are forwarded as enclosures
(1) and (2).

a. 7107 Status.

(1) NRL - Mission 7107 is operating within nominal
limits. 7107D has had some problems switching telemetry
modes without proper command but this anomaly seems to have
righted itself. Tasking continues using the 20 minute
timing cycle.

b. 7107 Collection Highlights.

Enclosure (3) compiles collection highlights for this
period.

(1) NSG - The [redacted] site has already demonstrated
ability to intercept many land based signals in the Soviet area,
including Hen House II [redacted] and other early warning radars
like Tall King [redacted] and [redacted] and height finders
like [redacted]. The environment seems to be very dense
at [redacted] but of course consists of a high percentage
of friendly emitters. Ocean surveillance coverage extends
into the Mediterranean and Barents with [redacted] already
reported from these areas.

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(b)(3)

(3) NSG - CINCLANT has requested DIA to provide support
for the NATO/US Naval exercise and Soviet reaction thereto.
This support will include special tasking for POPPY 18-26
September 1972. The impact of processing U.S. emitters in

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PAGE 1 OF 7 PAGES

PM-16-411/dhs

addition to its normal load will be looked into at [redacted]

c. Processing Highlights.

(1) NSA - Current processing backlogs are estimated to be about 2 months worth of orbits. West Bend is still leaving 15-20 percent pulse residuals after processing.

(2) NSA - [redacted] the Chinese E/W radar, has been observed by [redacted] to display a 4.9 sec bidirectional scan over a 20 degree sector. [redacted] associated with the SA-6 system has been observed pulsing in a 2400 PPS mode at the [redacted] training site.

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(3) NSA - Further information will be forthcoming from NSA concerning parameters for [redacted]. A briefing will be given at the next TOG concerning West Bend processing.

(4) NSA - NSA will check to see what percentage of EOB reports are compiled at NSA and what percentage are incorporated directly into the EOB from site reports.

d. SLM Calibration Plans.

(1) NSA - There is no definite time yet for SLM calibration due to equipment modifications which Lockheed had undertaken on its van.

[Large redacted block]

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f. Results of Engineering Evaluation.

(1) NRL - Processed results including pulse counts by band are distributed to all interested TOG attendees. For [redacted]

[Redacted block]

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PAGE 2 OF 7

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2. The next TOG meeting will be held at NSA on 28 September 1972.

R. K. Geiger
R. K. GEIGER

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DOD DIRECTIVE 5200.10 DOES NOT APPLY

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CONTROL

CONTROL

LIST OF ATTENDEES

PM-16



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(b)(3)

NSA

NSG

LCDR COLE
LT MORGAN



ENS KELLOG



NRL

MR. HELLRICH



SOC

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DOD DIRECTIVE 5200.10 DOES NOT APPLY

ENCLOSURE (1)

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PAGE 1 OF 17 PAGES

TOG AGENDA

1. POPPY Mission Status (NRL)
2. POPPY Collection Highlights (NSG)
3. POPPY Processing Highlights (NSA)
4. SLM Calibration Plans (NSA)
5. Status of (NSG)
6. Results of Engineering Evaluation (NRL)

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ENCLOSURE (2)
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CONTROL SYSTEM

CNSG INPUT TO TOG OF 24 AUGUST 1972

1. Due to operational problems, [] has been able to collect and process only approximately 38% of their passes. The RF density for [] appears to be identical to that of [] except that [] has an abundance of allied emitters. [] has been reporting data from the Cuban area. However, no locations have been obtained on land-based emitters.

2. Surface activity in Pacific reported from 1 January 72 through 15 August 72 appears normal in comparison with same dates for 1971. Since implementation of the [] series on 15 June, [] has reported 148 [] and []'s. The majority of these intercepts have been on [] emitters.

3. As normal the shipborne surface activity in the EUROPEAN area is heavy particularly during the week of 6 August, when 136 locations were obtained in the North Fleet waters. During the period of 15 June through 15 August 72, [] submitted 743 []'s. During the period of 1 through 15 August, [] submitted 28 []'s with locations in the BARENTS, BALTIC, NORTH SEA, MED and ATLANTIC areas.

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4. Of high interest was POPPY tracking of the Soviet Force dispatched to the Gulf of Tonkin in response to U.S. mining of Vietnam harbors. POPPY data indicated that the force probably transited to the GULF in an EMCON condition and returned in a partical EMCON condition. The track was maintained on the KASHIN DLG 562 [] emitter.

5. [] successfully tracked the KRIVAK DDGSP 533 and a GRISHA PCEP during their transist from the MED into the Northern fleet waters.

6. As early as 9 August, [] was submitting []'s on KRESTA II, CLGM 544 apparently heading into the operating area designated for the U.S. exercise "EXPERT SEAMAN". A [] was submitted in the immediate area of the USS INTREPID approximately five hours prior to being taken under survei-lance by the 544.

7. [] provided a track on KASHIN DLG 244 during her transit from the MED into the Straits of Gibraltar. Of particular interest in this transit is that the 244 was accompanying the MODIFIED SVERDLOV cruiser expected to participate in ECLIPTIC operations with a [] in the North Atlantic.

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ENCLOSURE (3)

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PAGE 6

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CONTROL SYSTEM

Submarine locations have been accomplished primarily from units operating in normal "local ops areas". [] has reported 92 locations of submarine emitters this year of which only three were out of area in the Pacific. [] during the same period obtained 23 submarine intercepts, of which only two were out of area units. There have been six intercepts of units operating in the Yellow Sea. [] has reported 118 submarine intercepts with 16 units being out of area. Two of these units were in the MED. [] reported 4 submarine intercepts, all of which were in the BARENTS Sea.

8. The overall UNIDENT SOI reporting for the year reveals an increase of approximately 25% over a similiar period for 1971. [] has reported 12 UNIDENT SOI's which is identical to levels in 1971. [] has reported 24 UNIDENT SOI's as opposed to 33 for the same period of 1971. UNIDENT activity for [] has increased by 66% with 34 submissions for 1972 against 11 for 1971.

9. POPPY sites collectively have intercepted and reported approximately 1600 SOI signals this year. Of interest are 31 intercepts from the EUROPEAN area and 10 from the Far East of the [] (POP GROUP) SA-N-4 emitter. Also of interest is the location of a [] from Strzelin, Poland. This is the first location of this emitter by []

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10. Pacific area special task levied against [] Hen House II, [] and Dual beamed Fan Song emitters have been non-productive. A check of [] data revealed that no [] collection has been obtained since December 1971. Likewise [] intercepts of [] are down. Project WINEGLASS, targeted against emitters in South East Asia is non-productive at this time. []'s PROJECT FLAVOR tasking continues to be fairly productive. During the last five weeks, 20 SA-6 site locations have been reported and 03 SA-2 locations. In support of special task 17-010-72 five SLM data tapes have been provided against [] emitter leaving only the requirement for 05 tapes of the [] emitter to complete this tasking. Special task 17-002-72, levied against the [] emitter, still requires one location and five SLM tapes. There has been only one intercept of this emitter by []

ENCLOSURE (3)

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NRL SSO/SAO OFFICE 7900

VA LAAJ397
PP RUKGAJ RUKGAAG
DE RUKGMA 654 2572003
ZMY XXXXX VWV
P 132001Z

BT

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COGNAC 473

305

~~SECRET~~ 131807Z SEP 72 CITE CONCERT 8655

PRIORITY COGNAC INFO

EARPOP/HANDLE VIA BYEMAN CONTROL CHANNELS ONLY

BUDGET

SUBJ: POPPY SOFTWARE DEVELOPMENT

1. ON 20 DECEMBER 1971 AND 6 APRIL 1972, NSA TRANSFERRED \$100,000 AND \$80,000, RESPECTIVELY, TO YOUR OFFICE FOR YOUR EXPENDITURE ON ONR CONTRACT [redacted]

2. AT A MEETING ON 8 AUGUST 1972, NSA REQUESTED THAT ACCOUNTING REPORTS FOR THESE FUNDS BE FORWARDED TO THIS AGENCY BY 1 SEPTEMBER 1972. INCLUDED WITH THE FINANCIAL REPORTS WERE TO BE COPIES OF THE MONTHLY AND WEEKLY PROGRESS REPORTS REQUIRED BY THE STATEMENT OF WORK FOR THE ABOVE CONTRACT. THIS WAS ASSURED BY YOUR OFFICE. WE HAVE RECEIVED NO REPORTS OF THE DISPOSITION OF THESE FUNDS NOR ANY PROGRESS REPORTS.

3. IT IS ABSOLUTELY NECESSARY THAT WE HAVE THE ABOVE REPORTS TO PROVIDE REQUISITE TECHNICAL AND FISCAL KNOWLEDGE OF THE CONTRACT AND FOR RECORDS PURPOSES IMMEDIATELY.

~~SECRET~~

BT

*100 Kaldid
NRL was on 12 Apr 1972 6 AM
NRL was on 21 Apr 1972
none
pls. Tol w/ Prof [unclear]*

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SECURITY CLASSIFICATION	
SECRET	
TYPE MSG	BOOK
	X
PRECEDENCE	
ACTION Routine	
INFO Routine	

FROM: [redacted]

TO: COGNAC, CONCERT

INFO: [redacted]

~~SECRET~~ E A R P O P C I T E [redacted]

POPPY SOFTWARE DEVELOPMENT

A. 1318072 SEP 72 CITE CONCERT 8655

1. IAW WITH PARA 1 OF REF A, \$80.0K HAS BEEN OBLIGATED ON PO-2-0060; [redacted] FWD BILLING STATEMENT TO NAVAIRSYSCOM IN JUNE 72. ON PO-2-0089, \$100.0K HAS BEEN OBLIGATED AND BILLING WILL BE FWD ASAP. TOTAL FUNDS (\$180.0K) WERE EXPENDED ON ONR CONTRACT [redacted] WITH [redacted] FOR SEL-86 SOFTWARE DEVELOPMENT EFFORT ON POPPY GROUND PROCESSING.

SPECIAL INSTRUCTIONS

HANDLE VIA BYEMAN CONTROL SYSTEM

DATE	TIME
18	1200
MONTH	YEAR
SEP	1972
PAGE NO.	NO. OF PAGES
1	1

DRAFTER	TYPED NAME AND TITLE	PHONE
	[redacted]	3060
	Admin. Asst.	

SIGNATURE
[redacted]
TYPED (or stamped) NAME AND TITLE
H. O. LORENZEN, Superintendent

SECURITY CLASSIFICATION
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REGRADING INSTRUCTIONS

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HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

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OCT 24 5 24 PM '72

NRL SSO/SAO OFFICE

PP RUXQAB RUXQTA RUXQAAQ RUXQAAA RUXQAAAL
DE RUXQAAJ 519 2971827
ZNY XXXXX VVV
P 241819Z

BT

XXXXX

GUARD 519

GUANO PASS WAHOO JUNO COGNAC CONCERT WHIG CONQUER

~~TOP SECRET~~ 241819Z OCT 72 CITE [] 0549
PRIORITY WAHOO JUNO INFO COGNAC CONCERT WHIG CONQUER
EARPOP

REINDEER-39

A. 7106

B. 7106 CHARLIE HAS CEASED OPERATION.

C. FUTURE RECOVERY IMPROBABLE.

D. [] WILL ATTEMPT PERIODICALLY TO REVIVE

7106 CHARLIE.

E. ADEQUATE TM INFO NOT AVAILABLE FOR ADEQUATE FAILURE
DIAGNOSIS. SUSPECT THAT DETERIORATED BATTERIES ARE
DRAWING EXCESSIVE CURRENT.

E-2 IMPDET.

~~TOP SECRET~~

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