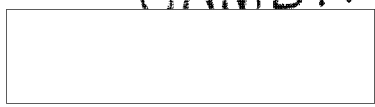


~~EARPOP~~

~~GAMBIT~~



DEPARTMENT OF THE AIR FORCE  
WASHINGTON

*7 April  
noted by DSM  
JS  
7 APR 1965*

50X1

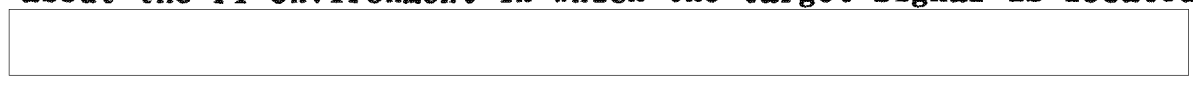
OFFICE OF THE UNDER SECRETARY

MEMORANDUM FOR DR. McMILLAN

SUBJECT: Mission 7309

EARPOP Mission 7309 is the first P-11 dual burn subsatellite. It contains the PUNDIT IV payload. This P-11 is currently scheduled for launch on GAMBIT Mission 4017, 22 April 1965.

The PUNDIT type payload is designed to intercept type B missile telemetry in satisfaction of one of the three directed coverage requirements. The earlier PUNDIT payloads experienced some difficulty in analysis of the target signal due to the large amount of rf interference from FM and TV stations in the European area. Analysis by NSA of the earlier PUNDIT data which contained recognized USSR telemetry has resulted in PUNDIT IV containing four highly selective, automatically tuned receivers in addition to a stepped tuned receiver. In Mode A, the stepping receiver recognizes and locks on to the target signal and either transponds to peripheral listening stations and/or records it for later transmission to STC stations. Mode B on PUNDIT IV is a wide band mode which provides 50 kc recording of the outputs of fixed tuned receivers upon recognition of a valid target signal. Mode C is similar to Mode A except that all data is recorded regardless of signal type. Mode C may operate in conjunction with Mode A or B. Its purpose is to provide the extremely important data about the rf environment in which the target signal is located.



50X1

The information provided by PUNDIT IV, though expected to produce usable analog tapes of the telemetry signal, may not allow machine production of commutated data. However, the subsequent mission PUNDIT V planned for launch later this year should have this capability for producing high quality telemetry analogs.

The P-11 containing PUNDIT IV also has the horizon sensors, sun sensors, and wobble dampener which will be used in P-11 4402. P-11 4402 is the first spinning DF type payload and is expected to have great promise in the cost effectiveness of collecting SIGINT data. However, SAFSP does not desire to fly 4402 (currently scheduled for launch in June 1965) until the technique for the sensors and dampener have been proven on 4401 (PUNDIT IV). Any delay in the flight of P-11 4401 will result in a corresponding slip in the entire P-11 program.

*5  
2  
Control No. 1375 3661-65*



~~GAMBIT~~

Thus, PUNDIT IV will not only meet the priority requirement but it will also provide significant data for design of PUNDIT V [redacted] as the essential technical feedback for the P-11 DF type payloads.

50X1

**JAMES T. STEWART**  
Brigadier General, USAF  
Director, NRO Staff



15 FEB 1947  
10 1947

1-5  
2-2  
1370 36361-65



~~SECRET~~  
Handle via ~~DI...~~  
Control System

0093

1965 FEB 4 23 00

SAFSS

/042125Z ZEA  
BT  
XXXXX ZEA  
EIGHT TWO SIX WORTH

7309

SECRET 042125Z  
PRIORITY WORTH CITE WHIG 2413  
REF MARGO 1129-5  
EARPOP

WE CONCUR IN THE RECOMMENDATIONS CITED IN THE REFERENCE  
MESSAGE. REQUEST YOU SELECT FREQUENCY AND ADVISE BOTH KW WHIG  
AND KW MARGO.

SECRET  
CFN: 2413 1129-5 EARPOP KW WHIG KW MARGO  
BT

NN

N

N

DISTRIBUTION		
SAFSS	A	I
SS-1		
SS-2		
SS-3		
SS-4		
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SS-7		
SS-8		
SS-9		
SS-10		
SS-11		
RP-1		
RP-2		
RP-3		

0093

~~SECRET~~



~~SECRET~~  
Handle via BYEMAN  
Control System

IN

965 FEB 11 00 00

SAFSS 191

TSBA366/102352Z ZEA  
BT  
XXXXX ZEA  
THREE ZERO NINE GUARD  
GUARD PASS MARGO

C-482

SECRET 102340Z  
WHIG MARGO CITE WORTH-7056  
EARPOP  
REF WHIG 2413 AND MARGO 1129-5  
CONCUR.  
SECRET  
CFN: 7056 2413 1129-5  
BT

7309

NN

N

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191

DISTRIBUTION		
CLASS	A	I
SS-1		
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SS-3		
SS-4		
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SS-6		
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SS-49		
SS-50		

489

~~TOP SECRET~~  
~~TOP SECRET~~  
REF ID: A66666  
Control System

65 FEB 26 18 03



SAFSS

DID780/261752Z ZEA ZPO WORTH

50X1

BT  
XXXX ZEA  
SEVEN FIVE THREE GUARD THREE FOUR SIX WORTH

DISTRIBUTION		
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SS-3		
SS-4		
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SS-6		
SS-7	/	
SS-8		
SS-9		
SS-10		
SS-11		
RF-1		2
RF-2		3
FILE		1

TOP SECRET 261750Z  
PRIORITY WAHOO INFO WHIG WORTH CITE  3977

REINDEER-X  
REF A. MSN 7309  
B. DISCUSSION AT KWMADAM 17-18 FEB RE DURATION OF  
MODE A OPERATION.

1. REQUEST YOUR DESIRE FOR DURATION OF MODE ALPHA  
OPERATION ASAP. MAXIMUM DURATION POSSIBLE IS 24 MINUTES.  
TOP SECRET  
CFN: 3977 -X 7309 17-18 FEB RE A 24

*Power for broadcast*

7309

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~~TOP SECRET~~  
Handle via BYEMAN  
Control System

13

Handwritten Control System

IN

604

1965 MAR 2 21 59

R 022 05Z  
FM SAFSS  
TO DIR NSA

TOP SECRET 022 05Z  
WANDU WORTH MARGO MAROR ADIC [ ] CITE WHIG 250  
RE INDEER-37/WEDGE  
A. 7309  
B. 19 APRIL 65  
TOP SECRET  
CFM 250 -37 7309 19 APRIL 65  
BT

50X1

NNNN

7309

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ASST DIR	
SA	
SSA	
ASST SSA	
SA-1	
SA-2	
SA-3	
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SA-9	
SA-10	
SA-11	
SA-12	
RF-1	
RF-2	
FILE	

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~~TOP SECRET~~

580

1965 MAR 2 15 46

SAFSS

/02 0402 ZEA

BT

XXXXX ZEA

FOUR FIVE NINE [ ] NINE FIVE FOUR DORTH

TOP SECRET 02 037Z

PRIORITY [ ] INFO THIS WORTH CITE WANDU 7563

50X1

RE INDEER-X

A. 7309

B. DESIRE DURATION OF MODE ALPHA TO BE 24 MINUTES.

THIS ANSWERS [ ] 3977.

TOP SECRET

CFN: 7563 7309 24 3977

BT

NNNN

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7309

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

1 3 Copies  
Page  
Control

~~TOP SECRET~~





TO: [redacted]  
Handle via BYEMAN  
Control System

OUT 1318

**PRIORITY**

1965 MAR 29 00 42

SAFSS

P 291940Z  
FM SAFSS  
TO DIRNSA

TOP SECRET 291940Z  
PRIORITY [redacted] WORTH WANDO [redacted] ADIC MANOR  
CITE WHIG 2730  
REINDEER-32/WEDGE

- A. 7309
- B. 19 APRIL 65
- C. 20 APRIL 65

TOP SECRET  
CFN: 2730 -32/WEDGE A. 7309 B. 19 APRIL 65  
C. 20 APRIL 65  
BT

7309  
25X1

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DISTRIBUTION	
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~~TOP SECRET~~

Handle via **BYEMAN** APR 2 16 44  
Control System

SAFSS

1455

/02 1635Z ZEA ZPO

BT  
XXXXX ZEA  
SIX SEVEN EIGHT  ONE FIVE ONE WORTH  
SIX EIGHT ZERO  SIX ONE FIVE OPCEM  
OPCEN PASS MANOR

50X1  
7347

TOP SECRET 02 1628Z  
PRIORITY  WORTH WAHOO MARGO  AD IC MANOR  
WEDGE CITE WHIG ~~207~~ 2767  
REINDEER-32

25X1

- A. 7309
- B. 20 APR 65
- C. 22 APR 65

TOP SECRET  
CFN: 2767 7309 20 APR 65 22 APR 65  
BT

NNNN

~~TOP SECRET~~  
Handle via **BYEMAN**  
Control System

DISTRIBUTION	
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SS-2	
SS-3	
SS-4	
SS-5	
SS-6	/
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SS-8	
SS-9	
SS-10	
SS-11	

143



~~TOP SECRET~~  
Handle via BYEMAN  
Control System

IN

**PRIORITY**

1965 APR 3 00 01

SAFSS

BT  
XXXX ZEA  
FOUR NINE SEVEN GUARD EIGHT SEVEN FOUR

TOP SECRET 022351Z  
PRIORITY WHIG INFO WAHOO CITE WORTH 7507.  
REINDEER-39

- A. 7309
- B. 22 APRIL 65
- C. 22 APRIL 65
- D. 4814
- E. P-11 #401

TOP SECRET  
CFN: 7507 -39 A 7309 B 22 APRIL 65 C 22 APRIL 65 D 4814 E P-11 #401  
BT

~~1478~~  
1478

50X1

7309

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~~TOP SECRET~~  
Handle via BYEMAN  
Control System

DISTRIBUTION		
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SS-19		
SS-20		



~~TOP SECRET~~  
Control System

1965 APR 6 02 44

1522

SAFSS

FTB168/060217Z ZEA  
BT  
XXXXX ZEA  
ZERO FIVE NINE GUARD

TOP SECRET 060210Z  
PRIORITY WAHOO INFO WHIG CITE  4345  
REINDEER-X  
REF A. 7309  
B. WAHOO 8217  
C.  4257

50X1

1. REQUIRE CONTROL CARD INFO FOR STATION   
2. SUGGEST MINIMUM DURATION TIMES FOR AT LEAST COOK, BOSS, AND  
HILA BE REDUCED TO 300 SEC. FOR REASON AS IN PARA 2. OF REF C.  
TOP SECRET  
CFN: 4345 -X 7309 WAHOO 8217  4257 INFO  COOK BOSS  
AND HILA TO 300 SEC IN PARA 2 OF REF C  
BT

7309

N  
N  
1522  
N  
N

DISTRIBUTION		
REFS	A	I
SS-1		
SS-2		
SS-3		
SS-4		
SS-5		
SS-6		
SS-7		
SS-8		
SS-9		
SS-10		
SS-11		
SS-12		
SS-13		
SS-14		
SS-15		



~~TOP SECRET~~  
Handle via BYEMAN  
Control System

1524

IN

1965 APR 6 7 31

SAFSS



N/061423Z ZEA ZPO MADAM  
BT  
XXXXX ZEA  
SIX EIGHT THREE [ ] ZERO FIVE THREE MADAM

TOP SECRET 061422Z  
PRIORITY [ ] INFO MADAM WHIG CITE [ ] 00 8235  
REINDEER-X  
REF A: 7309

50X1

- B: WAHOO 8217
- 1. CHANGE [ ] IN PARAGRAPH D TO [ ]
- 2. REDUCE MINIMUM DURATION TIMES FOR COOK, BOSS AND HULA TO 300 SEC.

TOP SECRET  
CFN: 8235  
REINDEER-X  
REF A: 7309

- B: WAHOO 8217
- 1. CHANGE [ ] IN PARAGRAPH D TO [ ]
- 2. REDUCE MINIMUM DURATION TIMES FOR COOK, BOSS AND HULA TO 300 SEC.

BT

N  
N

N

N

7309

DISTRIBUTION	
SAFSS	A I
SS-1	
SS-2	
SS-3	
SS-4	
SS-5	
SS-6	1
SS-7	
SS-8	
SS-9	
SS-10	
SS-11	
RF-1	2
RF-2	3
FILE	

1524

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

182

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

W

1965 APR 6 17 59

SAFSS

1528

FTB169/061745Z ZEA  
RT  
XXXXX ZEA  
ZERO SIX ZERO GUARD

T O P S E C R E T 061650Z  
PRIORITY WAHOO INFO WHIG CITE [ ] 4346  
REINDEER-X

- REF A. MSN 7309
- B. WAHOO 8235
- C. WAHOO 6952
- D. WAHOO 7001

RE REF B. WE ALSO HAVE NO CONTROL CARD INFO FOR [ ]  
THE ONLY STATION INFO WE HAVE IS THAT GIVEN IN REF C AND D.  
T O P S E C R E T

50X1

CFN 4346  
REINDEER-X

- REF A. MSN 7309
- B. WAHOO 8235
- C. WAHOO 6952
- D. WAHOO 7001

RE REF B. WE ALSO HAVE NO CONTROL CARD INFO FOR [ ]  
THE ONLY STATION INFO WE HAVE IS THAT GIVEN IN REF C AND D.  
BT

7309

DISTRIBUTION	
SAFSS A	I
SS-1	
SS-2	
SS-3	
SS-4	
SS-5	
SS-6	1
SS-7	
SS-8	
SS-9	
SS-10	
SS-11	
SS-12	
RF-1	2
RF-2	3
FILE	

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Handle via BYEMAN  
Control System

cy 10/3

IN



~~TOP SECRET~~  
Handwritten notes:  
Control System

1965 APR 10 03 08

SAFSS 16/6

7309

FT0200/100230Z ZEA  
BT  
XXXX ZEA  
ZERO SEVEN NINE GUARD

TOP SECRET 100230Z  
PRIORITY WANDU INFO WING CITE  4372  
REINDEER-X  
REF A. 7309  
B.  3993  
C.  4371

50X1

1. CHANGE PARA G OF REF B. TO 200 SEC FOR ALL STATIONS.

2. RE REF C. DO YOU WISH KIDI & POGO ADDED TO REINDEER-69?  
SUGGEST MIN DURATION FOR ALL FIVE STATIONS BE REDUCED TO 200 SEC.

TOP SECRET

CFNs: 4372 -X 7309 3993 4371 PARA G REF B 200 SEC RE REF C.  
KIDI POGO -097 200  
BT

DISTRIBUTION	
SAFSS A I	
SS-1	
SS-2	
SS-3	
SS-4	
SS-5	
SS-6	
SS-7	
CS-8	
SS-9	
SS-10	
SS-11	

NNNN

16/6

Handwritten signature and illegible text.

TOP SECRET

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

1965 APR 12 22 05

/122201Z ZEA

SAFSS

1638

BT  
XXXX ZEA  
SEVEN ZERO ZERO

TOP SECRET 122201Z  
PRIORITY  INFO WHIG CITE WANDU 8319.

REINDEER-X  
REF:  4371

A. 7309

B. ADD POGO,  AND KODI TO REINDEER-69.

TOP SECRET

CFN: 8319 REINDEER-X REF:  4371 A. 7309 B.

ADD POGO,  AND KODI TO REINDEER-69

BT

7309

50X1

N 1638

N

N

DISTRIBUTION	
SAFSS	A I
SS-1	
SS-2	
SS-3	
SS-4	
SS-5	
SS-6	
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SS-20	

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TOP SECRET  
Handle via BYEMAN  
Control System

1965 APR 15 22 39  
SAFSS 1624

SS322QSL323 B

GA  
LIKE WHAT

RGRG MTEY WILL DOER  
FTC833/152232Z ZEA ZPO [ ] OPCEN

BT  
XXXXX ZEA  
FIVE TWO NINE GUARD EIGHT NINE FIVE [ ] ONE SIX ONE [ ]  
SEVEN ONE THREE OPCEN  
GUARD PASS MARGO  
OPCEN PASS MANOR

739

TOP SECRET 152225Z  
PRIORITY WAHOO [ ] INFO MARGO [ ] MANOR ADIC WHIG CITE WORTH 7589.  
REINDEER 28/WEDGE

- A. 7309
- B. 4401
- C. 6717
- D. MISSION LIFETIME: 6 MONTHS
- E. ORBITAL LIFETIME: 2.2 YEARS
- F. ORBITAL ELEMENTS:
  - (1) PERIOD: 94.941
  - (2) INCLINATION: 95.122 DEG
  - (3) HEIGHT OF APOGEE: 289.7 NM
  - (4) HEIGHT OF PERIGEE: 287.7 NM
  - (5) ECCENTRICITY: .0001558
  - (6) ARGUMENT OF PERIGEE: 156.745 DEG

TOP SECRET  
CFN: 7589 REINDEER 28/WEDGE A. 7309 B. 4401 C. 6717 D. 6 E. 2.2 F. (1) 94.941 (2) 95.122 (3) 289.7 NM (4) 287.7 NM (5) .0001558 (6) 156.745  
BT

DISTRIBUTION	
SAFSS A	50X1
SS-1	
SS-2	
SS-3	
SS-4	
SS-5	
SS-6	1
SS-7	
SS-8	
SS-9	
SS-10	
SS-11	
RF-1	3
RF-2	3
FILE	

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TOP SECRET  
Handle via BYEMAN  
Control System

Copy 1 of 3  
Page of Pages  
Control No.



~~TOP SECRET~~  
Control System

1708

1965 APR 17 00 09



FT CBA8/170000000000T TEA Z [ ] OPCEN SAFSS  
BT  
XXXX ZEA  
FIVE THREE SIX GUARD NINE ZERO ONE [ ] ONE SIX THREE [ ]  
SEVEN ONE SEVEN OPCEN  
GUARD PASS MARGO  
OPCEN PASS MARGO

7309

50X1

TOP SECRET 142340Z  
PRIORITY WAND INFO [ ] WHIG MARGO [ ] ADIC MANDR CITE BORTH 7599.  
REINDEER 34/WEDGE  
A. 7309  
B. 22 APRIL 65, 1850 - 2140Z  
C. NONE  
D. NONE  
TOP SECRET  
CFNR 7599 REINDEER 34/WEDGE A. 7309 B. 22 APRIL 65 1850 - 2140Z  
C. NONE D. NONE  
BT

DATE	TIME	STATUS
04-17	0000	
04-17	0005	
04-17	0010	
04-17	0015	
04-17	0020	
04-17	0025	
04-17	0030	
04-17	0035	
04-17	0040	
04-17	0045	
04-17	0050	
04-17	0055	
04-17	0100	
04-17	0105	
04-17	0110	
04-17	0115	
04-17	0120	
04-17	0125	
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04-17	0200	
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Control System

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1965 APR 19 22 26

SAFSS

*1737*

*915*  
*124*  
FTC855/192224Z ZEA ZPO  WEGEN OPCEN  
BT

XXXX ZEA  
FIVE FOUR THREE GUARD NINE ZERO THREE  ONE SIX FIVE   
SEVEN TWO ZERO OPCEN  
GUARD PASS MARGO  
OPCEN PASS MANOR

50X1

*7309*

TOP SECRET 192217Z  
PRIORITY WAMMO INFO  WHIG MARGO  ADIC MANOR CITE WORTH-7606  
REINDEER 34/WEDGE

- A. 7309
- B. 22 APRIL 65, 1850 - 2140Z
- C. NONE
- D. NONE

TOP SECRET  
CFN: 7606 34 A. 7309 B. 22 APRIL 65 1850 - 2140Z C. NONE D. NONE  
BT

DISTRIBUTION		
SAFSS	A	I
SS-1		
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SS-4		
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SS-7		
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SS-11		
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RF-2		<i>2</i>
FILE		<i>2</i>

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1965 APR 21 19 37

1785

SAFSS

FT0001 ZEA ZPO [ ] WEDGE OPCEN  
BT  
XXXX ZEA  
FIVE SIX ZERO GUARD NINE ONE FOUR [ ] ONE SEVEN ONE WEDGE SEVEN  
TWO EIGHT OPCEN  
GUARD PASS MARGE  
OPCEN PASS MANOR

50X1

7309

TOP SECRET 211010Z  
PRIORITY WANDU INFO [ ] WHIG MARGO WEDGE ADIC MANOR CITE WORTH 7641  
REINDEER 34  
A. 7309  
B. 22 APRIL 65, 1850-210Z  
C. NONE  
D. NONE  
TOP SECRET  
CFN: 7641 REINDEER 34 7309 22 APRIL 65, 1850-210Z  
BT

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RF-2		3
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1799

1965 APR 22 01 29

RCRG SORRY SAFSS  
FORGOT  
RCRGQSL  
FTB317/220115Z ZEA  
BT  
XXXXX ZEA  
ONE ZERO EIGHT GUARD

TOP SECRET 220050Z  
WAHOO INFO WHIG CITE [ ] 4420  
REINDEER-X  
REF MSN 7309

7309

50X1

1. FOR NORMAL WEEKLY REINDEER-69 SUBMISSION AN "OFFSET" IN TIME FROM MSN 7301 (AND FUTURE MISSION) SUBMISSION IS CONVENIENT AT [ ], AS IS A CORRESPONDING OFFSET IN RECEIPT OF REINDEER-11.

2. FOR REF A IF YOU RECEIVE REINDEER-69 MLT 1900Z FRIDAY, CAN WE RECEIVE REINDEER-11 MLT 1530Z ON FOLG TUESDAY TO COVER TASKING STARTING 0001Z ON FOLG SATURDAY. REINDEER-69 FOR MSN 7301 (AND NEXT 73XX MISSION) WILL CONTINUE TO BE SENT ON THURSDAY P.M. EXPECTING REINDEER-11 ON MONDAY A.M.

TOP SECRET

CFM: 4420 X MSN 7309 REINDEER-69 "OFFSET" MSN 7301 REINDEER-11 REF A MLT 1900Z FRIDAY MLT 1530Z ON FOLG TUESDAY 0001Z ON FOLG SATURDAY 73XX MISSION THURSDAY P.M. MONDAY A.M.  
BT

N

N 1799

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RF-1	
RF-2	
FILE	

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Handle via BYEMAN  
Control System

1965 APR 22 01 09

~~1329~~  
1798



SAFSS

FTC897/2201057 ZEA ZPO [ ] WEDGE OPCEN

BT

XXXX ZEA

FIVE SEVEN ONE GUARD NINE TWO ONE [ ] ONE SEVEN THREE WEDGE

SEVEN THREE THREE OPCEN

GUARD PASS MARGO

OPCEN PASS MANOR

7309

50X1

T O P S E C R E T 2200527

PRIORITY WAHOO INFO [ ] WHIG MARGO WEDGE ADIC MANOR CITE WORTH-7655

REINDEER 34

A. 7309

B. 23 APRIL, 1850 - 2140Z

C. REQUIREMENT TO VACUUM FOREIGN PARTICLES FROM TARS PLATFORM

PACKAGE

D. NONE

T O P S E C R E T

CFN: 7655 34 A. 7309 B. 23 APRIL 1850 - 2140Z C. D. NONE

BT

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798

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Handle via BYEMAN Control System

1807



1960 APR 22 17 04

SAFSS

/2216 ZEA  
BT  
XXXXX ZEA  
SEVEN TWO SEVEN

7329

TOP SECRET 2216Z  
PRIORITY  INFO WHIG CITE WAHOO 8438  
RE INDEER-X  
REF A. 7309  
REF B.  4420  
AFFIRMATIVE  
TOP SECRET  
CFN 8438 7309  4420 AFFIRMATIVE  
BT

50X1

NNNN

1817

DISTRIBUTION		
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Control System

IN

1965 APR 22 22 00

SAFSS 1816

TSCB960NTC901/5555T TA ZPO OPCEN [ ]

BT

XXXXX ZEA

FIVE SEVEN FOUR GUARD NINE TWO FOUR [ ] ONE SEVEN FIVE [ ]

SEVEN THREE FIMTTAOPCEN

GUARD PASS MARGO

OPCEN PASS MANOR

[ ] PASS WEDGE

7309

50X1

T O P S E C R E T 222141Z

PRIORITY WAHOO INFO [ ] WHIG MARGO WEDGE ADIC MANOR CITE WORTH 7659.

REINDEER-34

- A. 7309
- B. 23 APRIL 1965 1850-2140Z
- C. NONE
- D. NONE

T O P S E C R E T

CFN: 7659 REINDEER-34 A. 7309 B. 23 APRIL 1965 1850-2140Z C. NONE

D. NONE

BT

N 1816

N

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Control System

1965 APR 23 07 44



FTC906/230130Z ZEA ZPO OPCEN [ ] WEDGE

SAFSS 1821

BT  
XXXX ZEA  
NINE TWO SIX [ ] FIVE SEVEN EIGHT GUARD ONE SEVEN SEVEN WEDGE  
SEVEN THREE SEVEN OPCEN  
GUARD PASS MARGO  
OPCEN PASS MANOR

7309

50X1

TOP SECRET 230122Z  
PRIORITY WAHOO INFO [ ] WHIG MARGO WEDGE ADIC MANOR CITE WORTH 7663  
REINDEER 34  
A. 7309  
B. 24 APR 65 1850-2140Z  
C. CHECKOUT OF PROGRAMMER BACK-UP BATTERY ON GE VEHICLE.  
D. NONE  
TOP SECRET  
CFN: 7663 REINDEER 34 A. 7309 B. 24 APR 65 1850-2140Z C. GE D. NONE  
BT

NNNN

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Handle via BYEMAN  
Control System

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SS-1	
SS-1	
SS-1	
SS-1	



**PRIORITY**

1965 APR 23 21 52

~~TOP SECRET~~

Handle via BYEMAN  
Control System

A622  
B969  
D770

2167  
1841

SAFSS

QSL PLS

1309

FTC915/232141Z ZEA ZPO [ ] OPCEN

BT  
XXXXX ZEA  
FIVE EIGHT THREE GUARD NINE THREE ZERO [ ] ONE SEVEN NINE [ ]  
SEVEN FOUR ONE OPCEN  
OPCEN PASS MANOR  
GUARD PASS MARGO

50X1

TOP SECRET 232130Z  
PRIORITY WAHOO INFO [ ] WHIG MARGO WEDGE ADIC MANOR CITE WORTH 7673.  
REINDEER 34

- A. 7309
- B. NET 27 APRIL 65 1850-2140Z
- C. BOOSTER PROBLEMS
- D. NONE

TOP SECRET  
CFN: 7673 34 A 7309 B NET 27 APRIL 65 1850-2140Z C D NONE  
BT

~~TOP SECRET~~

Handle via BYEMAN  
Control System

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**PRIORITY**

~~SECRET~~

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Control System

1901



FTB349/282054Z ZEA ZPO OPCEN  
BT  
XXXXX ZEA  
ONE THREE FOUR GUARD NINE SEVEN ZERO OPCEN  
OPCEN PASS ADIC MANOR  
GUARD PASS MARGO

50X1

7309

SECRET 282050Z  
IMMEDIATE WAHOO MARGO ADIC INFO PRIORITY WHIG MANOR CITE  4052  
REINDEER-35

- A. ~~7309~~ 7309
- B. 28/2016Z
- C. BOOSTER LAUNCH & ASCENT APPEAR NOMINAL

SECRET  
CFN: 4052 35 7309 28/2016Z  
BT

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Control System

1965 APR 29 20 46

FTB380/292025Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
ONE SIX FIVE GUARD FIVE EIGHT EIGHT WORTH  
GUARD PASS MARGO

SAFSS

1930

7309

TOP SECRET 292010Z  
PRIORITY MARGO INFO PRIORITY WAHOO WHIG WORTH CITE  4490  
REINDEER-X

50X1

- REF A. 7309
- B. MARGO 1497-5
- C.  /D 4071

1. FREQUENCIES OF LINKS ARE AS FOLLOWS:

- LINK 1 257.3 MC
- LINK 2 228.2 MC
- LINK 3 232.4 MC
- LINK 4 237.8 MC

IN CASE OF TLM XMTR FAILURE, LINKS 1 AND 2 CAN BE REVERSED AS CAN LINKS 3 AND 4. WILL NOTIFY IF THIS OCCURS. SIGNAL CONNECTIONS TO LINKS ARE AS IN TECH DESCRIPTION AWO1511.

2. ACQ TIMES AND DURATION FOR BOSS ARE GIVEN IN REF C. (REINDEER-69). PASSES WHEN BOSS WILL BE USED FOR MODE BRAVO DUMP CAN BE INFERRED FROM REINDEER-11.

TOP SECRET

CFN: 4490 7309 1497-5 4071 LINK 1 257.3 MC LINK 2 228.2 MC  
LINK 3 232.4 MC LINK 4 237.8 MC TLM XMTR LINKS 1 AND 2  
CAN BE REVERSED AS CAN LINKS 3 AND 4. TECH AWO1511. ACQ BOSS REF  
(REINDEER-69) BOSS MODE BRAVO DUMP REINDEER-11

BT

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RF-1		
RF-2		
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# PRIORITY

SECRET  
Handle via BYEMAN  
Control System

1911

1965 APR 29 15 34

SAFSS

FTD672  
PP 291615Z  
FM DIRNSA  
TO SAFSS

7309

SECRET/ PRIORITYWORTH/INFO PRIORITY  WHIG WANDU/CITE MARGO  
14975 REINDEER X

A. 7309  
B. REQUEST MARGO BE FURNISHED MODE BRAVO RECORD DUMP FREQUENCY.  
IN ADDITION REQUEST MARGO BE GIVEN DUMP TIMES FOR NEW BOSTON  
DURING FIRST FIVE DAYS OPERATIONS, TO ENABLE MARGO MONITOR DUMP.  
SECRET/

50X1

CFM: )X) 7309 MARGO BRAVO DUMP FREQUENCY TIMES NEW BOSTON FIVE  
BT

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DISTRIBUTION		
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Control System

1965 APR 30 10 32

SAFSS

1955

FTB400/301010Z ZEA ZPO WORTH

BT

XXXXX ZEA

ONEZIGHT ZERO GUARD FIVE NINE FOUR WORTH

GUARD PASS MARGO

7309

T O P S E C R E T 301000Z

PRIORITY WAHOO INFO WORTH WHIG MARGO CITE  4506

50X1

REINDEER-70

- A. 7309
- B. REV 16/29 APRIL
- C. INDEFINITE
- D. CMDS SENT 25 PER WAHOO 8344 AND IRRR ON REVS 6, 7, 14 READIN REVS 6, 7, 16).
- E. OTHER REQUESTED COMMANDS NOT DONE DUE TO STATION CONFLICTS (PROG 206) AND REQUIRED BATTERY AND OTHER VEHICLE CHECKS.
- F. GOOD
- G. T/R READOUTS AS EXPECTED. REPORTED WIDEBAND R/O FROM REV 7 D4 COMMAND. NO TAPES YET EXAMINED.

T O P S E C R E T

CFN: 4506 -70 7309 REV 16/29 APRIL CMDS WAHOO 8344 8444 REVS 6 7 14 REVS 6 7 16 NOT DONE PROG 206 T/R R/O REV 7 D4 NO TAPES

BT

FILE	REV	REV 1	SS-11	SS-10	SS-9	SS-8	SS-7	SS-6	SS-5	SS-4	SS-3	SS-2	SS-1	REV 1	DISPATCH

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**SECRET**

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Control System.

1989 APR 30 23 46

SAFSS 1989

RGR U GETTN GETTING ANY HITS FM ME NOW ??

O K BTT ZIC 952 ZID 580

*B-042 D-809*

FTC953/302300Z ZEA ZPO MADAM  
BT

*7309*

XXXXX ZEA  
FOUR EIGHT ONE MADAM SIX ZERO ONE GUARD  
GUARD PASS MARGO

~~SECRET~~ 302251Z

MADAM INFO WHIG WAMOO MARGO CITE WORTH 7730  
EARPOP

50X1

MADAM FOR DR. HARRIS WHIG FOR [ ] FOR COMDR SPERBERG  
MARGO FOR H. BECOURT  
REF: MARGO 1486-5

AUTHORIZE YOU TO MAKE DUBS OF NODE CHARLIE DATA FROM MISSION  
7309 FOR EDL, PROJECT RED TAG. THESE DUB TAPES ARE TO BE CLASSIFIED  
SECRET SPECIAL HANDLING FOR DELIVERY TO EDL.

~~SECRET~~

CFN: 7730 EARPOP MADAM DR HARRIS WHIG [ ] COMDR SPERBERG  
MARGO H BECOURT MARGO 1486-5 DUBS OF NODE 7309 EDL, RED TAG.  
CLASSIFIED SECRET SPECIAL HANDLING EDL  
BT

*M 1989*

N

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**SECRET**  
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FTB472/021000Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
TWO FOUR FIVE GUARD SIX TWO TWO WORTH  
GUARD PASS MARGO  
TOP SECRET 020925Z  
PRIORITY Wahoo INFO MARGO WHIS WORTH CITE  
REINDEER-70

SAFSS 2031

50X1

7309

CLASSIFICATION	EXEMPT	EXEMPT
ES-1		
ES-2		
ES-3		
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ES-2		
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- A. 7309
- B. 35/1 MAY
- C. INDEF

D. E. AS PER WAHOO 8344, REVS 16 THRU 35 WITH FOLG

EXCEPTIONS:

CMD REV	CMD SENT	REASON
16	A6	CHECKOUT MODE A
21	A5	CHECKOUT MODE A
25	D4	CHECKOUT MODE D
28, 30, 31	NONE	CONFLICT PROG, 206 - 241
29	B6	REPLACEMENT FOR REVS 28, 30

F. GOOD

G. GOOD - P/L DATA EXAMINED SHOWS MODES A, B, AND C WORKING PROPERLY. WIDE BAND R/O REV 7 WAS DUE TO LOCKUP ON STRONG SIGNAL (NOT TARGET SIGNAL). W/B R/O ALSO REPORTED ON R/O REVS 29 AND 31

H. MISSION CONSIDERED FULLY OPERATIONAL STARTING WITH REV 35.

BT  
NNNN

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2099

1963 MAY 4 02 11

SAFSS

TSCD825  
R 040320Z  
FM SAFSS  
TO DIRNSA

TOP SECRET 040240Z  
PRIORITY WAHOO INFO MARGO WORTH WHIG CITE  4638  
RE INDEER-70

7309

- A. 7309
- B. 69/3 MAY
- C. INDEF
- D., E. AS PER WAHOO 8344, REVS 38 THRU 69 EXCEPT CMD REVS 39, 43, 45, 59, 61, 67 DELETED - CONFLICT PROG 206/241. REV 66 D4 SUBSTITUTED.
- F. GOOD
- G. GOOD - T/R READOUTS AS EXPECTED SEVERAL WIDEBAND R/O ON MODES B&D.

50X1

TOP SECRET  
CFN: 4638 70 7309 69/3MAY INDEF 8344, REVS 38 THRU 69 EXCEPT CMD REVS 39, 43, 45, 59, 61, 67 PROG 206/241 REV 66 D4 T/R R/O MODES B&D  
BT

N  
N  
N

DISTRIBUTION	
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**PRIORITY**

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001

2/63

1965 MAY 5 17 18

FT0530/051700Z ZEA  
BT  
XXXX ZEA  
TWO NINE EIGHT GUARD  
GUARD PASS TO MARGO

SAFSS

TOP SECRET 051600Z  
IMMEDIATE WAMOO MARGO INFO PRIORITY WHIG CITE [ ] 4057  
REINDEER-X  
REF A. 7309  
B. WAMOO 8732  
C. [ ] 4057

7309

50X1

- 1. SPACTRACK NUMBER IS 1329 REPEAT 1329
- 2. INFO INCLUDED IN REF C. IS INCORRECT - AFTER FIRST ASSIGNING NBR 1328, SPACETRACK CHANGED IT TO 1329.

TOP SECRET  
CFW 4057  
REINDEER-X  
REF A. 7309  
B. WAMOO 8732  
C. [ ] 4057

- 1. SPACTRACK NUMBER IS 1329 REPEAT 1329
  - 2. INFO INCLUDED IN REF C. IS INCORRECT - AFTER FIRST ASSIGNING NBR 1328, SPACETRACK CHANGED IT TO 1329
- BT

N  
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145 MAY 6 00 50

SAFSS 2188

FTB54 1/060330Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
THREE ZERO SEVEN GUARD SIX FIVE FOUR WORTH  
GUARD PASS MARGO

50X1

7309

T O P S E C R E T 060305Z  
PRIORITY WAMOO INFO WORTH WHIG MARGO CITE  4665  
REINDEER-70

- A. 7309
- B. 106/5 MAY
- C. INDEF
- D., E. AS IN WAMOO 8344 AND 8574 REVS 70 THRU 106, EXCEPT  
REV 84 CMD DELETED - CONFLICT PROG 241.
- F. GOOD

G. GOOD. GETTING WIDEBAND T/R READOUT ON EVERY MODE B AND D  
READING. DATA MUST BE EXAMINED IN DETAIL TO DETERMINE IF ALL  
WIDEBAND T/R TRIGGERS ARE LEGITIMATE.

T O P S E C R E T  
CFM: 4665 TO 7309 106/5 MAY INDEF 8344 8574 REVS 70 THRU 106  
REV 84 CMD PROG 241 WIDEBAND T/R MODE B AND D  
BT

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SS-19	
SS-20	

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

FTB606/141720Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
THREE FIVE SIX GUARD SEVEN ZERO ONE WORTH  
GUARD PASS MARGO

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

50X1

1965 MAY 14 18 13

2368

TOP SECRET 141710Z  
PRIORITY WAHOO INFO WORTH WHIG MARGO CITE  4738 SAFSS

REINDEER-70

- A. 7309
- B. 225/ 13 MAY
- C. INDEF
- D. AS IN REINDEER-11, REV 212 THRU 225
- E. N/A
- F. GOOD
- G. GOOD

TOP SECRET  
CFN: 4738 -70 7309 225/ 13 MAY INDEF AS IN REINDEER-11  
REV 212 THRU 225 N/A GOOD GOOD  
BT

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7309

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~~TOP SECRET~~  
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142





~~TOP SECRET~~

Handle via BYEMAN  
Control System

19 00 32

SAFSS 2432

FT0624/190215Z ZEA ZPO WORTH

BT

XXXXX ZEA

THREE SIX NINE GUARD SEVEN ZERO EIGHT WORTH ONE TWO ONE MADAM  
GUARD PASS MARGO

7309

TOP SECRET 190140Z

PRIORITY WAMOO MARGO INFO WHIG WORTH MADAM CITE  4758

50X1

REINCEER-X

REF 7309

1. ON MOST OF MODE B READOUTS EXAMINED AT KWMADAM, THE WIDEBAND RECORDER HAD BEEN TRIGGERED ON BY A SPURIOUS SIGNAL EARLY DURING THE READIN PERIOD, MEANING THAT FOR THE LAST HALF OF THE READIN, THE WIDEBAND RECORDER WAS FULL.

2. SUGGEST THAT IF TIME DELAY COMMAND WERE SENT LATER IN PASS FIRST HALF OF READIN (ASSUMING W/B RECORDER WILL BE GND WOULD BE OVER A MORE OPTIMUM AREA IN SOME CASES.

3. PERHAPS KWMARGO COULD EXAMINE DATA IN THIS LIGHT AND OFFER A MORE KNOWLEDGABLE RECOMMENDATION.

TOP SECRET

CFM: 4758 7309 MODE B W/B RECORDER

BT

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13  
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Control System

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RF-1		
RF-2		
FILE		

Handle via BYEMAN  
Control System

85 MAY 19 17 13

2451

SAFSS

FT026/191610Z ZEA ZPO NORTH

BT

XENIX ZEA

THREE SEVEN ONE [ ] SEVEN ZERO NINE [ ] ONE TWO TWO [ ]  
GUARD PASS TO [ ]

SECRET 19155Z

PRIORITY WANGO INFO [ ] WING NORTH HUMAN CITE [ ] 4750

7309

50X1

REINDEER-X

REF A. 7309

B. [ ] 0970

CORRECT. MODE D IS MODE B AND C TOGETHER

SECRET

CFN 4759 -X REF A 7309 B WANGO 0970 CORRECT MODE D IS MODE B AND C TOGETHER

BT

N  
N  
N  
N

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1965 MAY 21 01 59

FTB650/210130Z ZEA ZPO WORTH  
BT  
XXXX ZEA  
THREE EIGHT ONE GUARD SEVEN ONE EIGHT WORTH  
GUARD PASS MARGO

SAFSS 2508

50X1

TOP SECRET 210100Z  
PRIORITY WAMOO INFO WORTH WHIG MARGO CITE [ ] 4774  
REINDEER-70  
A. 7309  
B. 330/20 MAY  
C. INDEF  
D.E. AS IN REINDEER-11, REVS 226 THRU 327 EXCEPT CMD REV  
279 AND 281 DELETED - CONFLICT.  
F. GOOD  
G. GOOD T/R READOUTS OBTAINED FROM REV 286 KKK AND 293 HHH,  
BUT NOT FROM 316 HHH.  
TOP SECRET  
CFN 4774  
REINDEER-70

7309

A. 7309  
B. 330/20 MAY  
C. INDEF  
D.E. AS IN REINDEER-11, REVS 226 THRU 327 EXCEPT CMD REV  
279 AND 281 DELETED - CONFLICT.  
F. GOOD  
G. GOOD T/R READOUTS OBTAINED FROM REV 286 KKK AND 293 HHH,  
BUT NOT FROM 316 HHH.  
BT

NN 2508

N

N

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RF-1	3
RF-2	
FILE	

Control System

IN

265-7

1965 MAY 26 16 22

SAFSS

FTB679/261610Z ZEA  
BT  
XXXXX ZEA  
FOUR ZERO ONE GUARD

7309 50X1

TOP SECRET 261605Z  
IMMEDIATE WAHOO INFO WHIG CITE [ ] 4802  
REINDEER-X  
REF 7309

1. REQUIRE REINDEER-11 ASAP.
2. IF YOUR TASKING PLANNING IS NOT COMPLETE, REQUEST YOU SEND A LIST OF THE COMMAND REV NUMBERS YOU WILL USE, IF AVAILABLE. OUR MAIN REQUIREMENT FOR WEEKLY REINDEER-11'S BY TUESDAY AM IS FOR ASSIGNING TRACKING STATIONS. THE ACTUAL COMMANDS TO BE SENT COULD BE SUPPLIED AS LATE AS ONE DAY BEFORE THEY ARE TO BE EXECUTED.

TOP SECRET  
CFM: 4802 -X 7309 REINDEER-11 ASAP NOT COMPLETE REV REINDEER-11'S  
TUESDAY AM  
BT

DISTRIBUTION		
SAFSS	A	I
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SS-11		

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Handle via BYEMAN  
Control System

1965 MAY 27 12

SAFSS

2690

FTB691/271730Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
FOUR ZERO NINE GUARD SEVEN FOUR TWO WORTH  
GUARD PASS MARGO

7309

50X1

TOP SECRET 271710Z  
PRIORITY WAMOO INFO WHIG WORTH MARGO CITE [ ] 4815  
REINDEER-70

- A. 7309
- B. 430/27 MAY
- C. INDEF
- D., E. AS IN REINDEER-11, REVS 331 THRU 430,  
EXCEPT CMD REV 340 DELETED- CONFLICT PROG. 241, REV 339 A4 SUB-  
STITUTED
- F. GOOD

G. READOUTS RESULTED FROM 331 KKK, 392 HH, 422 HHM, 429 HHM.  
NO READOUT FROM 346 HHM. WIDE BAND T/R READOUTS FROM ALMOST ALL MODE  
B AND D READINS.

TOP SECRET  
CFN:  
WILL RERUN UPON REQ  
BT

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173

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**PRIORITY**  
2740

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Control System

1965 MAY 28 07 07

SAFSS



SROPT8727/282040Z ZEA ZPO WORTH

FT8727/282040Z ZEA ZPO WORTH

BT  
XXXXX ZEA  
FOUR FOUR FOUR GUARD SEVEN FIVE NINE WORTH  
GUARD PASS MARGO

DISTRIBUTION		
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RF-2		
FILE		

50X1

TOP SECRET 282020Z  
PRIORITY WAHOO INFO PRIORITY WHIG MARGO WORTH CITE  4858  
REINDEER-X  
REF A. 7309

1. TROUBLE IN VEHICLE COMMAND SYSTEM CAUSED R/I CMDS ON REVS 446, 447, 448, 451, 452 TO BE DELETED. TIMER WHICH TURNS OFF TLM AT END OF PASS DID NOT FUNCTION, REQUIRING A MANUAL Z-2 CMD TO TURN OFF TLM. (TO PREVENT BATTERY FROM BEING DEPLETED) Z-2 CMD ALSO CANCELS R/I COMMANDS. ON REV 453 TIMER WAS NORMAL AND READIN (D6) WAS COMMANDED. SHOULD PROBLEM RECUR, WE WILL USE A SPECIAL COMMAND SEQUENCE WHICH WILL PERMIT READIN WITH DISADVANTAGE THAT TIME DELAY COMMAND IN SOME CASES MUST BE SENT AT OTHER THAN REQUESTED LATITUDE.

7309

TOP SECRET  
CFN: 4858 -X  
REF A. 7309

1. TROUBLE IN VEHICLE COMMAND SYSTEM CAUSED R/I CMDS ON REVS 446, 447, 448, 451, 452 TO BE DELETED. TIMER WHICH TURNS OFF TLM AT END OF PASS DID NOT FUNCTION, REQUIRING A MANUAL Z-2 CMD TO TURN OFF TLM. (TO PREVENT BATTERY FROM BEING DEPLETED) Z-2 CMD ALSO CANCELS R/I COMMANDS. ON REV 453 TIMER WAS NORMAL AND READIN (D6) WAS COMMANDED. SHOULD PROBLEM RECUR, WE WILL USE A SPECIAL COMMAND SEQUENCE WHICH WILL PERMIT READIN WITH DISADVANTAGE THAT TIME DELAY COMMAND IN SOME CASES MUST BE SENT AT OTHER THAN REQUESTED LATITUDE.

BT

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2740

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2867  
1965 JUN 3 12 42

SAFSS

7031334Z ZEA

BT

XXXXX ZEA

ZERO SIX FOUR [ ]

7309

T O P S E C R E T 031334Z

PRIORITY [ ] MARGO INFO WHIG CITE WAHO 9308.

REINDEER-X

REF A: 7309

REF B: [ ] 4999

REF C: MARGO 1662-5

1. COMPARISON OF EPHEMERIDES GENERATED BY [ ]  
AND KWMARGO REVEALS THAT ACQUISITION TIMES FOR REFERENCED  
ORBITS ARE IN AGREEMENT.

50X1

2. TURN ON TIMES FOR MISSED REVS AS CONTAINED IN REF  
C WERE INCORRECT. REQUEST KWMARGO TAKE CORRECTIVE ACTION  
TO PRECLUDE REOCCURRENCE.

T O P S E C R E T

OPN: 9308 REINDEER-X REF A 7309 REF B [ ] 4999 REF C

MARGO 1662-5 1 2 REF C INCORRECT

BT

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NW

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2884

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1965 JUN 4 02 32

SAFSS

FT866/04014Z ZEA ZPO WORTH  
BT  
XXXX ZEA  
FIVE SEVEN FOUR EIGHT TWO ONE WORTH  
EIGHT PASS MARGO

50X1

TOP SECRET 040134Z  
PRIORITY WANDU INFO WORTH WHIG MARGO CITE [ ] 5015  
REINDEER-70

- A. 7309
- B. REV 545/3 JUN
- C. INDEF

7309

D.,E. AS IN REINDEER-11 REVS 431 THRU 545 EXCEPT CMDS  
REVS 446 THRU 452 LOST-VEHICLE CMD LOGIC PROB (SEE [ ] 4858)  
CMD 453 (D6) SUBSTITUTED AND WAS SUCCESSFUL.

F. GOOD EXCEPT FOR CMD PROBLEM REVS 446-452. SINCE  
REV 453, NO PROBLEMS.

G. MODE B AND D CONTINUE TO GIVE W/B T/R R/O ALMOST  
EVERY TIME.

H. NO READOUT FROM REV 521K, 522J, 536K, 537J, OR  
539K, IN ADDITION TO THOSE REPORTED BEFORE.

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CFN 5015 WILL RERUN UPON REQ  
BT

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1965 JUN 7 22 55

SAFSS

A/071940Z ZEA  
BT  
XXXX ZEA  
ZERO SEVEN FIVE

519

2939

SECRET/  
PRIORITY WAHOO  INFO WHIG/CITE MARGO 1683-5  
REINDEER X  
REF: A.  4999  
B. WAHOO 9308

7309

50X1

HAS AGAIN BEEN INSTRUCTED TO TURN ON 7309 AT 50 DEGREES NORTH ON A NORTH DESCENDING PASS AND AT 20 DEGREES NORTH ON A NORTH ASCENDING PASS. THIS SHOULD ELIMINATE REOCCURRENCE OF EVENTS AS OUTLINED PARA TWO REF BRAVO. IT SHOULD BE NOTED THAT  SUCCESSFULLY CARRIED OUT ITS TASK WITH THE SAME INSTRUCTIONS AND EPHEMERIS INFORMATION.

SECRET/  
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1965 JUN 7 10 21

SAFSS

FTB873/071838Z ZEA  
BT  
XXXXX ZEA  
FIVE SEVEN SEVEN GUARD  
GUARD PASS MARGO

DISPATCH	
NO.	DATE
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SS-11	
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RD-2	
RD-3	

TOP SECRET 071820  
PRIORITY WAHOO INFO MARGO WHIG CITE [ ] 5022  
REINDEER-X  
REF A. 7309

- B. WAHOO 9300 ET. SEQ.
- 1. RE ALTERNATE COMMANDS, SHOULD WE AUTOMATICALLY PROTECT, WHEN POSSIBLE, ALTERNATE K AND J CMDS WITH A READOUT PRIOR TO CMD. (REV 604, 620 ETC.) NOTE THAT CMD 603 H [ ] WILL PRECLUDE USING BOSS REV 603 TO DUMP FOR POSSIBLE 604K
- 2. IF WE SHOULD MISS, FOR EXAMPLE, REV 594 (A4), DOES [ ] AUTOMATICALLY COVER 598 (A4)? ALSO, IF WE SHOULD MISS 595 (C4) OR 599 (D4) DO WE CALL UP 598 (A4) OR DO WE DO NOTHING?

TOP SECRET  
CFN: 5022 REINDEER-X  
REF A. 7309

- B. WAHOO 9300 ET. SEQ.
- 1. RE ALTERNATE COMMANDS, SHOULD WE AUTOMATICALLY PROTECT, WHEN POSSIBLE, ALTERNATE K AND J CMDS WITH A READOUT PRIOR TO CMD. (REV 604, 620 ETC.) NOTE THAT CMD 603 H [ ] WILL PRECLUDE USING BOSS REV 603 TO DUMP FOR POSSIBLE 604K
- 2. IF WE SHOULD MISS, FOR EXAMPLE, REV 594 (A4), DOES [ ] OR [ ] AUTOMATICALLY COVER 598 (A4)? ALSO, IF WE SHOULD MISS 595 (C4) OR 599 (D4) DO WE CALL UP 598 (A4) OR DO WE DO NOTHING?

50X1

7309

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1965 JUN 10 10 45

SAFSS

RGROSL  
FTB900/101910Z ZEA  
BT  
XXXXX ZEA  
FIVE NINE FIVE GUARD  
GUARD PASS MARGO

50X1

7309

SECRET 101900Z  
PRIORITY MARGO INFO WAHOO WHIG CITE [ ] 5050  
REINDEER-X  
REF MSN 7309

DUE TO PAYLOAD PROBLEMS ON REV 446, DATA READ IN ON REV 444 WERE NOT READ OUT. PROBLEMS PERSISTED THROUGH REV 451, AND REV 444 DATA WERE READ OUT IN THREE SECTIONS ON REVS 447H, 448H, AND 451S. (END OF TAPE INDICATION OCCURRED ON REV 451B) TAPES FROM THESE THREE R/O REVS WILL BE SHIPPED 11 JUNE 65, TOGETHER WITH TIMING SUMMARIES CONTAINING READ IN ON AND OFF TIMES AND DURATIONS DETERMINED FROM PAYLOAD CLOCK. READ OUT REV 446C WAS SHIPPED IN ERROR ON 4 JUN 65, AND SHOULD BE DISREGARDED, SINCE IT CONTAINS NO DATA

SECRET  
OPN: WILL RERUN UPON REQ  
BT

NN

N

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3014

N

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~~TOP SECRET~~

1965 JUN 11 02 47



SAFSS

FTB975/110220Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
FIVE NINE NINE GUARD EIGHT FOUR ZERO WORTH  
GUARD PASS MARGO

50X1

TOP SECRET 110200Z  
PRIORITY WAHOO INFO MARGO WHIG WORTH CITE   5058  
REINDEER-70

- A. 7309
- B. REV 651/10 JUN
- C. INDEF
- D. AS IN REINDEER-11, 13 REVS 549 THRU 648
- E. N/A
- F. GOOD
- G. NOMINAL
- H. READOUTS RESULTED FROM REV 566J, 567K, 569K, 581J, 582K, 603H, 612K, 627J, 641H AND 642K.  
NO READOUT FROM 551J, 552K, 584K, 596J, 597K, 611J, 614K, 618H, 626K, 643J AND 645J

7309


TOP SECRET  
CFN 5058  
REINDEER-70  
A. 7309  
B. REV 651/10 JUN  
C. INDEF  
D. AS IN REINDEER-11, 13 REVS 549 THRU 648  
E. N/A  
F. GOOD  
G. NOMINAL  
H. READOUTS RESULTED FROM REV 566J, 567K, 569K, 581J, 582K, 603H, 612K, 627J, 641H AND 642K.  
NO READOUT FROM 551J, 552K, 584K, 596J, 597K, 611J, 614K, 618H, 626K, 643J AND 645J  
BT

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JUN 11 07 57

SAFSS

7309

QSKQSL

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FTB910/11213Z ZEA

BT

XXXXX ZEA

SIX ZERO THREE GUARD

TOP SECRET 11213Z

PRIORITY WAHOO INFO WHIG CITE [ ] 5068

REINDEER-X

REF A. 7309

B. [ ] D/5016

C. WAHOO 9350

D. [ ] 3993

1. IT WILL BE REQUIRED TO DUMP TAPE RECORDERS ON REV 702 COOK, 715 BOSS, 717 BOSS, 732 BOSS, 781 HULA, ON ALL OF WHICH THE DURATION OF PASS WILL BE LESS THAN THAT SPECIFIED IN REF D. WE WILL PROCEED AS TASKED UNLESS OTHERWISE ADVISED.
2. IN THE FUTURE IT WOULD BE HELPFULL IF YOU INDICATED ON REINDEER-11 THOSE PASSES WHICH YOU REALIZE WILL CAUSE POSSIBLE LOSS OF DATA, BUT WHICH WE MUST USE FOR DUMP.

TOP SECRET

OPN: 5068 REINDEER-X REF A 7309 B [ ] 5016 C WAHOO 9350

[ ] 3993 1 TAPE RECORDERS ON REV 702 COOK 715 BOSS 717 BOSS 732 BOSS 781 HULA THAN THAT SPECIFIED IN REF D 2 HELPFULL IF YOU INDICATED ON REINDEER-11

BT

50X1

25X1

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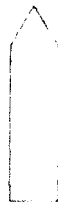
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3147

1965 JUN 16 17 28



SAFSS

FTB928/161713Z ZEA ZPO WORTH

BT

XXXXX ZEA

SIX ONE SIX GUARD EIGHT FIVE FIVE WORTH ONE TWO EIGHT MADAM

GUARD PASS MARGO

TOP SECRET 161713Z

PRIORITY WAMOO INFO MARGO MADAM WORTH WHIG CITE

730950X1

SERVICE

H/W RETRANSMISSION OF  5090 WHICH CONTAINED ERROR.

5090

REINDEER-X

REF A. 7309

B. WAMOO 9529

1. HAVE SCHEDULED ADDITIONAL PASSES AS FOLLOWS:

REV	STN	CMD
754	BOSS	DUMP ONLY
756	POGO	A4 83NA
769	BOSS	DUMP ONLY
771	POGO	B4 83NA

*for enge eval  
x PMO - REAR RFI pass  
mod A*

READ-INS WILL OCCUR OVER SUNNYVALE AREA.

2. NO INTERFERENC WITH OPERATIONAL TASKING AT ALL UNLESS ALTERNATE

REVS 755, 769, OR 770 ARE NEEDED.

3. REV 786 WILL NOT BE NEEDED.

TOP SECRET

CFN: WILL RERUN UPON REQ

BT

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~~PRIORITY~~

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1965 JUN 16 01 56

SAFSS 312 4

FTB924/160135Z ZEA  
BT  
XXXX ZEA  
SIX ONE THREE GUARD  
GUARD PASS MARGO

TOP SECRET 160130Z  
PRIORITY WAHOO INFO PRIORITY MARGO WHIG CITE [ ] 5088  
REINDEER-X  
REF A. 7309  
B. WAHOO 9535  
C. [ ] 5022

50X1

1. WILL NOT BE ABLE TO DUMP READIN RESULTING FROM REV 914(B6) BEFORE 815H UNLESS POGO (POOR TAPE RECORDER) IS USED. SIMILAR SITUATION EXISTS ON REV 844/845. REQUEST GUIDANCE NLT 16/1600Z

7309

2. SHOULD WE PROTECT ALTERNATE REV 863J WITH A DUMP? REQUEST A GENERAL ANSWER TO REF C. FOR OUR FUTURE GUIDANCE.  
TOP SECRET

CFN 5088 -X 7309, WAHOO 9535, [ ] 5022, REV 914(B6) 815H, POGO, REV 844/845, NLT 16/1600Z, REV 863J  
BT

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FTM91/180142Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
SIX TWO EIGHT GUARD EIGHT SIX SEVEN WORTH  
GUARD PASS MARGO

3128

50X1

TOP SECRET 180115Z  
PRIORITY WANDU INFO WHIG WORTH MARGO CITE [ ] 5106  
REINDEER-70

- A. 7309
- B. 757/17 JUN
- C. INDEF

D., E. AS IN REINDEER-11 AND 13, REVS 652 THRU 757 EXCEPT  
OHD REVS 700, 701, 731, 734, 736 LOST DUE TO VEHICLE OHD  
LOGIC PROBLEM. REV 708(O6) AND 709(A6) SUBSTITUTED.

F. OHD LOGIC PROBLEM SIMILAR TO THAT DESCRIBED IN [ ]  
4858 OCCURED ON REVS INDICATED ABOVE. LOGIC WAS NORMAL FROM  
REV 704 TO 727, AND HAS BEEN NORMAL FROM 746 TO PRESENT.  
SPECIAL COMMAND SEQUENCE AND PROCEDURES WILL BE IMPLEMENTED  
IF FREQUENCY OF OCCURANCE INCREASES.

G. NOMINAL

H. SCHEDULED H, J, & K OHDs RESOLVED IN READOUTS EXCEPT  
FOR REV 690K 705J, 733K, 736K AND 747J.

TOP SECRET

CPN: 5106 REINDEER 70 A 7309 B 757 17 JUN C INDEF D E AS  
IN REINDEER 11 AND 13 REVS 652 THRU 757 EXCEPT OHD REVS 700  
701 731 734 736 LOST DUE TO VEHICLE OHD LOGIC PROBLEM REV  
708(O6) AND 709(A6) F OHD LOGIC PROBLEM SIMILAR TO THAT  
DESCRIBED IN MAGIC 4858 OCCURED ON REVS INDICATED ABOVE  
LOGIC WAS NORMAL FROM REV 704 TO 727 AND HAS BEEN NORMAL  
FROM 746 TO PRESENT G NOMINAL H SCHEDULED H J & K OHDs  
RESULTED IN READOUTS EXCEPT FOR REV 690K 705J 733K 736K  
AND 747J

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18



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3211

1965 JUN 19 04 02

SAFSS

TB990/190310Z ZEA ZPO WJ

7309

BT  
BT  
XXXXX ZEA  
SIX THREE TWO GUARD EIGHT SEVEN TWO WORTH

TOP SECRET 190245Z  
PRIORITY WANDU INFO WING WORTH CITE [ ] 5115  
REINDEER-X  
REF. A. 7309

B. [ ] 5106 PARA. F.  
1. EXACT CAUSE OF CMD LOGIC FAULT STILL UNKNOWN.  
2. TO EXPLAIN SITUATION A REVIEW OF THE READOUT LOGS IS NECESSARY. AT ACQUISITION TIME A ZI CMD IS SENT WHICH TURNS ON TLM AND STARTS DECK#1 OF TIMER (T ZERO). AT T PLUS 42 SEC (SPC-11) T/R R/O STARTS. AT T PLUS 546 SEC (SPC-15) TLM IS TURNED OFF. ON SEVERAL PASSES, SPC-15 HAS BEEN LATE OR HAS NOT OCCURRED AT ALL, REQUIRING A MANUAL Z-2 CMD TO TURN OFF TELEMETRY, WHICH ALSO NEGATES ANY P/L READIN CMDS (DECK#2 OF TIMER) WHICH HAVE BEEN SENT. ON MOST, BUT NOT ALL, OF THE OCCASIONS WHEN SPC-15 HAS NOT WORKED CORRECTLY, SPC-11 HAS BEEN LATE, THUS WARNING OF SPC-15 FAILURE.

OUR NEW OPERATION PROCEDURES ARE AS FOLLOWS:  
SHOULD SPC-11 BE LATE, A Z-2 WILL BE SENT IMMEDIATELY AFTER T/R R/O COMPLETION (ABOUT T PLUS 490 SEC) AND READIN CMDS WILL BE SENT "IN THE BLIND", I.E. WITHOUT VERIFICATION. THIS WILL MEAN, IN MOST CASES, THAT TIME DELAY CMD WILL BE SENT LATER THAN AT DESIRED LATITUDE. SHOULD SPC-11 BE NORMAL, AND SPC-15 STILL FAIL (A MUCH LESS LIKELY OCCURANCE) A Z-2 WILL BE SENT TO TURN OFF TELEMETRY, BUT THERE WILL PROBABLY BE NO TIME REMAINING IN PASS TO RE-SEND READIN COMMANDS.

3. SENDING COMMANDS IN THE BLIND HAS THE FURTHER DISADVANTAGE OF NOT BEING CERTAIN EXACTLY WHICH COMMANDS WERE RECEIVED BY VEHICLE EXCEPT, IN SOME CASES, BY EXAMINING SUBSEQUENT READOUT DATA.

4. IN VIEW OF SITUATION, WOULD RECOMMEND THAT ON PASSES WHERE BOTH READOUT AND NEW READIN COMMANDING MUST BE DONE THAT PASS DURATION BE AT LEAST 570 SEC.

TOP SECRET  
CFN 5115 WILL RERUN UPON REQ  
BT

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50X1

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23 01 14  
SAFSS

3250

7309

FTB968/230320Z ZEA ZPO WORTH  
BT  
XXXX ZEA  
SIX FOUR SEVEN GUARD EIGHT EIGHT THREE WORTH

TOP SECRET 23/0300Z  
PRIORITY WAHOO INFO WORTH WHIG CITE [ ] 5131  
REINDEER-X  
REF A. 7309  
B. WAHOO 9616  
C. [ ] 5115 PARA. 4.

NO FURTHER PROBLEMS WITH TIMER SINCE REV 746. REHEARSAL OF SPECIAL OPERATING PROCEDURES HAS SHOWN THAT 600 SEC. (VICE 570) SHOULD BE MINIMUM DURATION FOR R/O AND COMMANDING PASSES. IN REF A, REVS 946 AND 1010 ARE LESS THAN 600 SEC. DURATION AND WOULD BE RISKY. ADVISE.

TOP SECRET  
CFN 5131  
REINDEER-X  
REF A. 7309  
B. WAHOO 9616

C. [ ] 5115 PARA. 4.  
NO FURTHER PROBLEMS WITH TIMER SINCE REV 746. REHEARSAL OF SPECIAL OPERATING PROCEDURES HAS SHOWN THAT 600 SEC. (VICE 570) SHOULD BE MINIMUM DURATION FOR R/O AND COMMANDING PASSES. IN REF A, REVS 946 AND 1010 ARE LESS THAN 600 SEC. DURATION AND WOULD BE RISKY. ADVISE.  
BT

50X1

RESOLUTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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VV  
FTB993/250345Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
SIX SIX SIX GUARD EIGHT NINE NINE WORTH  
GUARD PASS MARGO

TOP SECRET 250320Z  
PRIORITY WAHOO INFO WHIG MARGO WORTH CITE [ ] 5156  
REINDEER-70

50X1

- A. 7309
- B. REV 863/24 JUN
- C. INDEF
- D. AS IN REINDEER-11, 13, REVS 758 THRU 863, EXCEPT REV 791 (A4) DELETED - STM EQUIPMENT PROBLEM; REV 800 (A6) SUBSTITUTED
- F. GOOD-NO FURTHER CMD LOGIC PROBLEMS
- G. NOMINAL
- H. NO REPORTED R/O FROM 762J, 796K, 815H, 838K, 839H AND 853K. IN ERROR, REV 863 BOSS WAS CALLED UP WHICH APPARENTLY INTERFERED WITH [ ] 860H. ANOMOLOUS CONDITIONS WERE EXPERIENCED-E.G. CMD Z2 WAS SENT FOR 80 SEC. BEFORE TLM TURNED OFF. R/O ON REV 863 ON BOTH TAPE RECORDERS. T/R #1 MAY HAVE BEEN FROM 862K OR 860H.

TOP SECRET  
CFN: 5156  
REINDEER-70

- A. 7309
- B. REV 863/24 JUN
- C. INDEF
- D. AS IN REINDEER-11, 13, REVS 758 THRU 863, EXCEPT REV 791 (A4) DELETED - STM EQUIPMENT PROBLEM; REV 800 (A6) SUBSTITUTED
- F. GOOD-NO FURTHER CMD LOGIC PROBLEMS
- G. NOMINAL
- H. NO REPORTED R/O FROM 762J, 796K, 815H, 838K, 839H AND 853K. IN ERROR, REV 860 BOSS WAS CALLED UP WHICH APPARENTLY INTERFERED WITH [ ] 860H. ANOMOLOUS CONDITIONS WERE EXPERIENCED-E.G. CMD Z2 WAS SENT FOR 80 SEC. BEFORE TLM TURNED OFF. R/O ON REV 863 ON BOTH TAPE RECORDERS. T/R #1 MAY HAVE BEEN FROM 862 K OR 860H.

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JUN 24 1963  
FBI - WASHINGTON



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100 21 20 14

0455

QSL 728

LO  
FTB 022/262125Z ZEA  
BT  
XXXX ZEA  
SIX NINE ONE GUARD  
GUARD PASS MARGO <sup>044</sup>

7309

50X1

TOP SECRET 262000Z  
PRIORITY WAHOO MARGO INFO WHIG CITE  5185  
REINDEER-X  
REF 7309

THE FOLG PASSES AT STC FOR REF WILL BE (OR HAVE BEEN) LOST DUE TO  
CONFLICT WITH MSN 7307/08

REV:	CMD:
876	DUMP BEFORE 877H
882	C4
884	DUMP BEFORE 884H
890	DUMP BEFORE 891J
899	DUMP BEFORE 899H

TOP SECRET  
CFN: 5185 -X REF 7309 THE FOLG PASSES AT STC FOR REF WILL BE (OR HAVE  
BEEN) LOST DUE TO CONFLICT WITH MSN 7307/08 REV CMD 876 DUMP BEFORE  
887H 882 C4 884 DUMP BEFORE 884H 890 DUMP BEFORE 891J 899 DUMP BEFORE  
899H  
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3316

1965 JUN 28 17 37

/281320Z ZEA  
BT  
XXXX ZEA  
TWO ZERO FOUR [ ] FIVE NINE EIGHT WORTH

7304

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SS-2	2

TOP SECRET 281317Z  
MARGO INFO [ ] WHIG WORTH CITE WAMOO 9698  
EARPOP  
REF A: MARGO 1753-5  
REF B: [ ] 5189

CONCUR WITH REF A. HOWEVER SUGGEST THAT YOU  
CONSIDER PROPOSAL OUTLINED IN REF B.

*J.K. [unclear]*

TOP SECRET  
CFN: 9698 1753-5 5189 REF A REF B  
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**PRIORITY**

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1965 JUN 29 11 11

3337

SAFSS

FTA056  
051/291514Z ZEA  
BT  
XXXXX ZEA  
ZEO ZERO SIX GUARD

7309

SECRET 291514Z  
PRIORITY WHIG CITE ADIC 0677

50X1

REF ADIC 0032  
PLEASE ADVISE STATUS.  
SECRET  
0677 0092  
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1965 JUN 29 20 40



/292030Z ZEA  
BT  
XXXXX ZEA  
ONE FIVE THREE ADIC

7309

SAFSS

S E C R E T 292026Z  
PRIORITY ADIC CITE WHIG 3307  
REF ADIC 0092  
ADIC 0677  
REF DATA ARRIVED AT EDL THIS DATE.  
S E C R E T  
CFN: 3307 0092 0677 EDL  
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1965 JUN 30 01 59

SAFSS

7309

L  
 FT0000/302050Z ZEA ZPO WORTH  
 BT  
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 SEVEN ONE SIX GUARD NINE THREE SIX WORTH  
 GUARD PASS MARGO

TOP SECRET 302045Z  
 PRIORITY WANDU INFO MARGO WHIG WORTH CITE [ ] 5213  
 REINDEER-X  
 REF A. 7309  
 B. WANDU 9712

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50X1

1. REQUIRE A BATTERY RE-CHARGING EXERCISE FOR REF A. O/A 6 JULY 65, WHICH WILL REQUIRE DELETION OF SOME TASKING.
2. THE EXERCISE, REQUIRED EVERY 10 TO 14 DAYS, AND REQUIRING A PERIOD OF APT 15 REVS, CAN GENERALLY BE CARRIED OUT WITHOUT DISRUPTING NORMAL TASKING. HOWEVER, PRESENT TASKING PATTERN OF FREQUENT J'S AND K'S REQUIRES SOME DELETIONS. IN THE FUTURE, WE WILL GIVE YOU ADVANCE NOTICE OF EXERCISE, AND CRITERIA FOR SELECTING PASSES.

3. UNLESS YOU WISH BATTERY EXERCISE TO BE MOVED TO 5 OR 7 JULY, REQUEST THE FOLG COMMANDS BE DELETED:  
 1035J, 1037K, AND 1042J.  
 TOP SECRET  
 CFM: CITE [ ] 5213  
 REINDEER-X  
 REF A. 7309

1. REQUIRE A BATTERY RE-CHARGING EXERCISE FOR REF A. O/A 6 JULY 65, WHICH WILL REQUIRE DELETION OF SOME TASKING.
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3. UNLESS YOU WISH BATTERY EXERCISE TO BE MOVED TO 5 OR 7 JULY, REQUEST THE FOLG COMMANDS BE DELETED:  
 1035J, 1037K, AND 1042J.  
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3377





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3395

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Control System

1965 JUL 1 07 27

SAFSS

FTD737K  
RR 011945Z  
FM DIRNSA  
TO SAFSS

7309

TOP SECRET/  
WAMOO/INFO [ ] WHIG WORTH/CITE MARGO 1774-5  
EARPOP/

REF: WAMOO 9690

HANDSPRING INTERROGATION STATIONS HAVE BEEN INSTRUCTED TO BEGIN  
SENDING KILO AND JULIETT COMMANDS APPROX 2 MINS PRIOR EXPECTED  
ACQUISITION TIME AND TO SEND REPEATED COMMANDS AT APPROX 60 SECS  
INTERVALS FOR A TOTAL OF (NOT MORE THAN) 5 MINUTES.

TOP SECRET/  
BT

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3395

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FTB147/030150Z ZEA ZPO WORTH [ ]

BT

XXXXX ZEA

SEVEN TWO SEVEN GUARD NINE FOUR THREE WORTH FIVE ONE FOUR [ ]

ONE THREE EIGHT MADAM

GUARD PASS MARGO - 077

SAFSS

3421

SECRET 030130Z

PRIORITY MARGO WEDGE INFO WORTH WAHOO WHIG MADAM CITE [ ] 5228

EARPOP

WEDGE FOR CAPT DAVIS, CAPT WOODFORD MARGO FOR [ ] WORTH FOR

MAJ TRUKEN.

REF A. MARGO 1771-5

B. [ ] D-5224 - ADDITIONAL HOMEBASE TEST DATA MSN 7226

C. [ ] D-5229 - ADDITIONAL HOMEBASE TEST DATA MSN 7158

1. RE PARA 1. OF REF A. FIRST INTERCEPT WORD SYSTEM IS INDEED ALL ONES AS WELL AS ITEM 68 THRU 79. PROBLEM WITH WORDS 88, 89 AND 114-119 IS DUE TO WORDS WITH ALL ONES INSERTED INTO INTERCEPT RECORDS. NEW TEST DATA IN REF C. HAS THIS ERROR CORRECTED.

2. RE PARA 2 OF REF B. - PROBLEM WITH WORDS 0, 1, 2 IS DUE TO DIRECTORY RECORD ERROR WHICH IS CORRECTED IN REF B.

3. BOTH REF B. AND C. ARE STRICTLY TESTS AND SOME OF THE PARAMETERS ARE NOT REPRESENTATIVE OF ACTUAL PAYLOAD DATA.

4. BOTH REF B. AND C. HAVE SAMPLE "N" (NAVIGATION) RECORDS.

5. PROBLEM OF MISSING EOF AND "H" AND "S" RECORDS IS DUE TO UNIVAC OPERATION ERRORS AT EITHER OR BOTH RECEIVE AND TRANSMIT TERMINALS AND CAN BE ELIMINATED BY PROPER OPERATOR COORDINATION. RECOMMEND RECEIVING OPERATOR VERIFY, BY OBSERVING ON-LINE PRINT, THAT EACH FILE BEGINS WITH "H001" AND "H002" AND ENDS WITH "S" RECORDS, AND ASK FOR RETRANSMISSION IF IT DOES NOT.

6. ATTEMPTED TO TRANSMIT REF B. TO [ ] ON 2 JULY - BUT UNSUCCESSFUL, APPARENTLY DUE TO CIRCUIT OR EQPT PROBLEM. WILL ATTEMPT TRANSMISSION OF REF B. & C. ON 6 JULY.

7. ADVISE IF FURTHER PROBLEMS ARE ENCOUNTERED.

SECRET

OPIN 5228 CAPT DAVIS CAPT WOODFORD [ ] MAJ TRUKEN D-5224

MSN 7226 D-5229 MSN 7158 RE PARA 1 REF A ITEM 68 THRU 79 88, 89

114-119 REF C RE PARA 2 OF REF B 0, 1, 2 "N" EOF "H" AND "S"

"H001" AND "H002" 2 JULY 6 JULY

BT

7309

50X1

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**PRIORITY**

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Control System

FTB148/030150Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
SEVEN TWO EIGHT GUARD NINE FOUR FOUR WORTH  
GUARD PASS MARGO

3/23

TOP SECRET 030010Z  
PRIORITY WAHOO INFO PRIORITY MARGO WHIG WORTH CITE [ ] 5230  
REINDEER-X

7309

50X1

- REF A. 7309
- B. WAHOO 9712 (REINDEER-11)
- C. WAHOO 9746 (REINDEER-13)

1. WE NOTE FROM OUR ORBIT PLOTTER THAT CMDS 1072K, 1087K AND 1102K CANNOT BE SENT AS EARLY AS 20NA SINCE PASSES ARE LOW ELEVATION. NOTE THAT TIME BETWEEN [ ] ACQ AND BOSS ACQ ON REINDEER-69 IS EQUAL OR LESS THAN 24 MIN, WHICH MEANS THAT BOSS WILL BE "LOCKED OUT" OF VEHICLE (A HIGHLY UNDESIRABLE SITUATION) UNTIL T/R READIN IS COMPLETE (24 MINUTES), UNLESS KKK IS SENT NO LATER THAN ACQ. BOSS IS REQUIRED IN ORDER TO DUMP FOR JJJ CMDS ON REVS 1073, 1088, AND 1103.

2. RECOMMEND ONE OF EACH ADJACENT PAIR OF TASKS BE DELETED.

TOP SECRET  
CFN: 5230 X 7309 9712 9746 CMDS 1072K 1087K 1102K 20NA [ ] 69  
24 MIN T/R KKK JJJ CMDS 1073 1088 1103  
BT

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1985 JUL 17 07 16

SAFSS 3112

FTB509/170020Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
SEVEN SEVEN SEVEN GUARD NINE SEVEN SEVEN WORTH  
GUARD PASS MARGO

50X1

TOP SECRET 162320Z  
PRIORITY WAHOO INFO MARGO WHIG WORTH CITE  5300  
REINDEER-70

- A. 7309
- B. 1184/16 JULY
- C. INDEF
- D. AS IN REINDEER-11 REVS 1076 THRU 1184
- E. N/A
- F. GOOD - READOUT FROM REV 1118K HAD ONLY T/R #2 (SHORTER THAN NORMAL, ONLY 225 SEC.) PROBLEM COULD BE IN VEHICLE "K" COMMAND LOGIC OR IN METHOD OF COMMANDING AT  AS MENTIONED ON PREVIOUS REPORTS
- G. NOMINAL -NO CHANGE
- H. READOUTS REPORTED ON ALL K AND J CMDS REVS 1076-1184 EXCEPT FOR 1141K AND 1155K.

TOP SECRET  
CFN 5300  
REINDEER-70

- A. 7309
  - B. 1184/16 JULY
  - C. INDEF
  - D. AS IN REINDEER-11 REVS 1076 THRU 1184
  - E. N/A
  - F. GOOD - READOUT FROM REV 1118K HAD ONLY T/R #2 (SHORTER THAN NORMAL, ONLY 225 SEC.) PROBLEM COULD BE IN VEHICLE "K" COMMAND LOGIC OR IN METHOD OF COMMANDING AT  AS MENTIONED ON PREVIOUS REPORTS
  - G. NOMINAL -NO CHANGE
  - H. READOUTS REPORTED ON ALL K AND J CMDS REVS 1076-1184 EXCEPT FOR 1141K AND 1155K.
- BT

7309

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1985 JUL 17 00 45

SAFSS 3613

FTB07/170020Z ZEA  
BT  
XXXXX ZEA  
SEVEN SEVEN SIX GUARD  
GUARD PASS MARGO

50X1

TOP SECRET 170001Z  
PRIORITY Wahoo MARGO INFO WHIG CITE [ ] 5299

REINDEER-X

REF. MSN 7309

BATTERY EXERCISE SCHEDULED FOR REVS 1277 TO 1299 WILL REQUIRE  
DELETION OF COMMANDS REV 1292 (A4) AND 1293 (D4).

TOP SECRET

CFN: 5299

REINDEER-X

REF. MSN 7309

BATTERY EXERCISE SCHEDULED FOR REVS 1277 TO 1299 WILL REQUIRE  
DELETION OF COMMANDS REV 1292 (A4) AND 1293 (D4).

BT

7309

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FTB784/240437Z ZEA ZPO WORTH  
BT  
XXXX ZEA  
EIGHT EIGHT NINE GUARD ZERO ZERO FIVE WORTH  
GUARD PASS MARGO

50X1

TOP SECRET 230535Z (CORRECTED COPY)  
PRIORITY Wahoo INFO WORTH WHIG MARGO CITE [ ] 5439  
REINDEER-70

- A. 7309
- B. 1279, 22 JULY
- C. INDEF.
- D., E. AS IN REINDEER-11, REVS 1185 THRU 1279 EXCEPT AS FOLLOWS:
  - 1) MISSED DUMP PRIOR TO REV 1202(K) - CONFLICT MSN 7158
  - 2) 1231 (A4) LOW ELEVATION, CMD SENT IN BLIND AT 36 DEG.
  - 3) 1232 (D4) LOW ELEVATION, CMD SENT IN BLIND AT 52 DEG.
  - 4) 1246 (D4) MISSED - NO ACQUISITION OF VEHICLE- ON REV 1247 T/R #1 WAS FULL INDICATING A SPURIOUS READIN COMMAND SINCE 1245 BOSS WHEN VEHICLE WAS LAST READOUT - READIN DELAY OR READIN IN PROGRESS OVER 1246 BOSS WOULD EXPLAIN NOT ACQUIRING. REV 1247 AND SINCE - VEHICLE NORMAL.
  - 5) 1253 (D6) MISSED- STATION EQPT. OUTAGE
  - 6) 1261 (D4) LOW ELEV, CMD SENT IN BLIND AT 54 DEG.
  - 7) 1278 (C4) DELETED - BATTERY EXERCISE
- F. GOOD - TAPE RECORDER #2 READOUTS NORMAL.
- G. NOMINAL - NO CHANGE
- H. FROM REV 1185 TO 1279, ALL J, K, & L COMMANDS RESULTED IN READOUT EXCEPT FOR 1187J, 1217J, AND 1202K (DUE TO OUR LACK OF READOUT). ON SEVERAL READOUTS, MINCOM RECORDER NOT AVAILABLE DUE TO MSN 7158 REQUIREMENT- BACKUP OR TAPE RECORDER WAS USED

7309

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CFN WILL RERUN UPON REQ  
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OUT

1965 JUL 30 02 23

SAFSS

3951

FTB979/300220Z ZEA ZPO WORTH  
BT  
XXXXX ZEA  
NINE SIX SEVEN GUARD ZERO TWO SIX WORTH  
GUARD PASS MARGO

TOP SECRET 300200Z  
PRIORITY WAHOO INFO WHIG WORTH MARGO CITE  5573  
REINDEER-70

50X1

- A. 7309
- B. 1309/29 JULY
- C. INDEF
- D., E. AS IN REINDEER-11 REVS 1280-1389 EXCEPT OMD REV 1292, 1293 DELETED FOR BATTERY EXERCISE. ON SEVERAL READOUTS MINCOM RECORDER NOT USED DUE TO CONFLICT WITH MSN 7158.

7309

- F. GOOD
- G. NOMINAL - NO CHANGE.

TOP SECRET

CFN: 5573

REINDEER-70

- A. 7309
- B. 1309/29 JULY
- C. INDEF
- D., E. AS IN REINDEER-11 REVS 1280-1389 EXCEPT OMD REV 1292, 1293 DELETED FOR BATTERY EXERCISE. ON SEVERAL READOUTS MINCOM RECORDER NOT USED DUE TO CONFLICT WITH MSN 7158.

- F. GOOD
- G. NOMINAL - NO CHANGE.

BT

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FTB275/070015Z ZEA ZPO WORTH  
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XXXXX ZEA  
ZERO EIGHT ONE GUARD ZERO SIX SEVEN WORTH  
GUARD PASS MARGO

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PRIORITY WAHOO INFO MARGO WHIG WORTH CITE [ ] 5703  
REINDEER-70

- A. 7309
- B. 1498/5 AUG
- C. INDEF
- D., E. AS IN REINDEER-11 THRU REV 1498 EXCEPT:  
REV 1399 - CMD SENT AT 47 DEG.  
1414 - CMD SENT AT 49 DEG  
1474 - DELETED, CONFLICT MSN 7312 REV 7  
1489 - CMD SENT, BUT NO RESULTING READOUT -
- INDICATION IS THAT SPURIOUS COMMAND DUMPED RECORDER PRIOR TO 1495.
- F. GOOD
- G. NOMINAL - NO CHANGE

TOP SECRET  
CFN: 5703 70 7309 1498/ 5 AUG 11 REV 1498 1399 47 DEG 1414 49 DEG  
1474 7312 REV 7 1489 NO RESULTING READOUT 1495 NO CHANGE  
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4191

1965 AUG 13 00 12

SAFSS

FTB492/130050Z ZPO WORTH

BT

XXXXX

ONE FIVE ONE GUARD ONE ZERO ZERO WORTH  
GUARD PASS MARGO

7329

TOP SECRET 122340Z

PRIORITY WAOO INFO WORTH WHIG MARGO CITE 5811

REINDEER-70

A. 7309

B. 1600/12 AUG

C. INDEF

D., E. AS IN REINDEER-11 THRU REV 1600 EXCEPT:

REV 1511 CMD NOT SENT, BATT EXERCISE

FYI, 1545 CMD SENT AT 60 DEG

1560 " " " 65 DEG

1566 " " " 40 DEG

1576 " " " 58 DEG

1581 " " " 42 DEG

1596 " " " 41 DEG

1594 " " " 27 DEG, STATION PROBLEM

1501 " " " 45 DEG, STATION PROBLEM

F. GOOD

G. NO CHANGE

TOP SECRET

CFN: 5811

REINDEER-70

A. 7309

B. 1600/12 AUG

C. INDEF

D., E. AS IN REINDEER-11 THRU REV 1600 EXCEPT:

REV 1611 CMD NOT SENT, BATT EXERCISE

FYI, 1600 CMD SENT AT 60 DEG

1560 " " " 65 DEG

1566 " " " 40 DEG

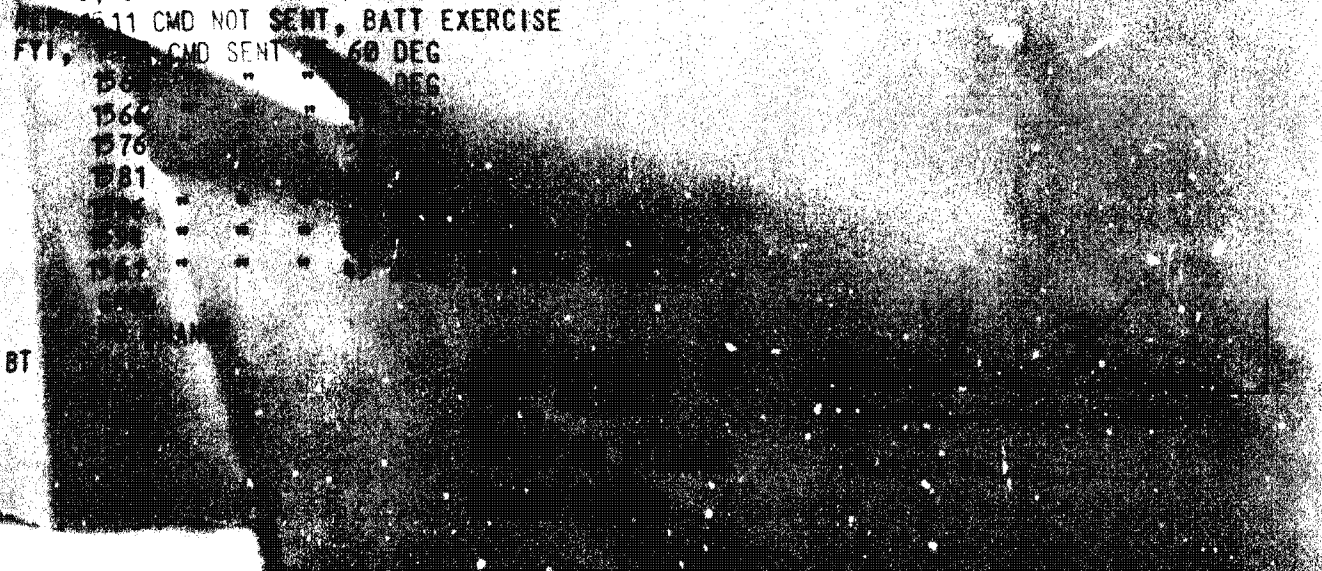
1576 " " " 58 DEG

1581 " " " 42 DEG

1596 " " " 41 DEG

1594 " " " 27 DEG, STATION PROBLEM

1501 " " " 45 DEG, STATION PROBLEM



BT

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4318

1969 AUG 19 02 56

SAFSS

FTB735/192250Z ZPO WORTH

BT

XXXXX

TWO ONE FOUR GUARD ONE TWO SIX WORTH SIX TWO FOUR

GUARD PASS MARGO

PASS WEDGE

TOP SECRET 192230Z

PRIORITY WAHOO INFO MARGO WHIG WEDGE WORTH CITE 5903

REINDEER-70

A. 7309

B. 1707/19 AUG

C. INDEF

D., E. AS IN REINDEER-11

F. GOOD

G. NO CHANGE

TOP SECRET

CFN: 5903 -70 7309 1707/19 AUG INDEF REINDEER-11

GOOD NO CHANGE

BT

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1309

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4330

SAFSS

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BT

XXXXX

FIVE TWO EIGHT

50X1

TOP SECRET 201200Z

PRIORITY  INFO WHIG MARGO CITE WAMOO 0524

REINDEER-13

A. 7309

B. N/A

C. PERMISSION GRANTED TO USE REYS REQUESTED IN

9505 FOR MODE "C" TESTS.

7309

TOP SECRET

CFM: IF NEEDED REQ RERUN

BT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

*Joseph*

1965 SEP 9 17 32

*File 7309*

/091730Z ZPO MADAM

SAFSS

BT

XXXX

SIX THREE ZERO [ ] TWO THREE SIX MADAM

50X1

SECRET /

PRIORITY WHIC [ ] MANOR/CITE MARGO 2051-5

EARPOP

1. OUR PRESENT NON-PRODUCTIVITY HANDSPRING WITS [ ] AND IN VIEW POLITICAL SITUATION, REQUEST COMMENTS REGARDING IMMEDIATE REMOVAL OF HANDSPRING INTERROGATION/COLLECTION FACILITIES.

SECRET /

BT

M

M

M

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**PRIORITY** ~~TOP SECRET~~  
Handle via BYEMAX  
Control System

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7309

SAT 58

FT3592/100125Z ZPO WORTH  
BT  
XXXXX  
THREE THREE TWO ZERO ONE EIGHT THREE WORTH  
GUARD PAGE MARKED

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SS-4	
SS-5	
SS-6	
SS-7	
SS-8	
SS-9	
SS-10	
SS-11	
RF-1	
RF-2	
VILE	

50X1

~~TOP SECRET~~ 100100Z  
PRIORITY THIS INFO MARKED WORTH CITE   6104  
REINDEER-78

- A. 7309
- B. 2020/9 SEP
- C. INDEF
- D. AS IN REINDEER-11 THRU REV 2020
- E. POLG. CHDS SENT AT LATITUDES INDICATED DUE TO ACQUISITION LIMITATION  
1943 BM 52NA  
1948 BM 54NA
- F. GOOD
- G. NO CHANGE. CAL ON REVS 1769 & 1784 (FOR DETERMINING RECEIVER GAIN CALIBRATION, MODE C) INCONCLUSIVE TO GROUND EQUIPMENT PROBLEMS - WILL REQUEST ADDITIONAL CAL REVS.
- H. READOUT REPORTED FROM LLL CHD ON REV 2009.

~~TOP SECRET~~  
OPN: 6104  
REINDEER-78

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- B. 2020/9 SEP
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Page \_\_\_\_\_ of \_\_\_\_\_ Pages.  
Control No. \_\_\_\_\_

~~TOP SECRET~~  
Handle via BYEMAX  
Control System

