

N

247  
12269

TSDA320/21/2217Z ZEA ZPO [ ]

BT

XXXXX ZEA

EIGHT ZERO ONE [ ] FIVE THREE NINE [ ]

~~SECRET~~ 212154Z

WHIG INFO [ ] CITE [ ] 5837.

REINDEER -5

A. 7157/ 7213

B. NONE

C. AN INFLATABLE BIRD DOG ANTENNA WILL BE FLOWN ON MSN 7213 TO PROVIDE COVERAGE AT DIFFERENT FREQ RANGE.

D. NONE

E. P/L NONE. SEE REMARKS FOR VEHICLE COMPONENT FAILURES AND CORRECTIVE ACTIONS.

F. MR TWO S-BAND BEACON PLATES (TRANSPONDER) HAVE BEEN DISABLED SO THAT BCM ACTS AS A CMD RCVR SINCE BOTH TRANSPONDER AND RCVR ARE ON COMMON POWER SUPPLY. PRIOR FAILURES OF THE TRANSPONDER HAVE ABSORBED FULL POWER AVAIL AND RENDERED CMD RCVR INOP. SOLAR ARRAY SYSTEM NOW INCLUDES A SUN LOCK SENSOR ON EACH ARRAY THAT OVERRIDES TRACKING SENSORS WHEN STRONG SUN SIGNAL IS RECEIVED. IN PAST FLIGHTS, ALBEDO EFFECTS HAVE CAUSED THE ARRAYS TO TRACK THRU OPTIMUM POSITIONS.

50X1

[ ] ONLY INSTEAD OF ALL FOUR TO CONSERVE POWER. A VHF REAL TIME CMD SYSTEM HAS BEEN ADDED AS A BACK-UP TO THE S-BAND CMD SYSTEM TO PROVIDE COMMAND OF ESSENTIAL VEHICLE FUNCTIONS AND PERFORM SWITCHING FROM ONE BEACON TO ANOTHER.

~~SECRET~~

CFN: 5837 -5 A 7157 7213 B NONE C MSN 7213 D NONE E P/L F MR TWO S-BAND (TRANSPONDER) CMD RCVR CMD RCVR INOP [ ] VHF CMD BACK-UP S-BAND CMD

BT

DISTRIBUTION  
SAPS AT I

~~SECRET~~  
212154Z

RF-1		
RF-2		
FILE		

N

12269

N

N

**INLUMIN**

~~TOP SECRET~~

Handle via BYEMAN  
Control System

15155

7213 50X1

DID039/191750Z ZEA ZPO [ ]

BT

XXXX ZEA

THREE ONE EIGHT [ ] ZERO ZERO ONE [ ] ONE NINE NINE [ ]

[ ] PASS [ ]

~~TOP SECRET~~ 191710Z

WECEN [ ] INFO WHIG [ ] CITE [ ] 3351

REINDEER-X/ [ ]

REF. MSN 7213

1. FURTHER ANALYSIS OF LOBID ONE SHOWED ONLY 14 BURST WHICH CONTAINED VALID INTERCEPTS. PHASE AND AMPLITUDE RATIOS WERE SO INCONSISTANT THAT PRECISE GEOPOSITIONING COULD NOT BE DONE AT ALL. CONSEQUENTLY, LOBID TWO WAS RUN WITH EACH INTERCEPT LOCATED IN AN APPROX. 1300-1400 N.M. CIRCLE CENTERED ON THE NORMAL CENTER OF FIELD-OF-VIEW. SINCE THE FIELD FOR COVERAGE ELIPSE SEMI-MINOR AXIS (CARD COLUMNS 57 THRU 59) SHOWS ONLY THREE DIGITS, 1000 N.M. MUST BE ADDED TO THE VALUE IN THE FIELD.

2. LOBID II IS COMPLETE, HAS BEEN TRANSMITTED TO [ ] AND WILL BE SHIPPED TO [ ] 20 NOV 64.

50X1

~~TOP SECRET~~

CFN 3351

REINDEER-X/ [ ]

REF. MSN 7213

1. FURTHER ANALYSIS OF LOBID ONE SHOWED ONLY 14 BURST WHICH CONTAINED VALID INTERCEPTS. PHASE AND AMPLITUDE RATIOS WERE SO INCONSISTANT THAT PRECISE GEOPOSITIONING COULD NOT BE DONE AT ALL. CONSEQUENTLY, LOBID TWO WAS RUN WITH EACH INTERCEPT LOCATED IN AN APPROX. 1300-1400 N.M. CIRCLE CENTERED ON THE NORMAL CENTER OF FIELD-OF-VIEW. SINCE THE FIELD FOR COVERAGE ELIPSE SEMI-MINOR AXIS (CARD COLUMNS 57 THRU 59) SHOWS ONLY THREE DIGITS, 1000 N.M. MUST BE ADDED TO THE VALUE IN THE FIELD.

2. LOBID II IS COMPLETE, HAS BEEN TRANSMITTED TO [ ] AND WILL BE SHIPPED TO [ ] 20 NOV 64.

BT

DISTRIBUTION		
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25X1

N 15155

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

N

7213

transmitted via **DIEMAN**

### Control System

IN

1964 AUG 14 02 10

**DID** 088/140200Z ZEA ZPO [ ]

BT

XXXXX ZEA

THREE THREE ZERO [ ] FOUR NINE SIX [ ]

1213 SAFSS

10759

50X1

~~TOP SECRET~~ 140030Z

[ ] INFO WHIG [ ] CITE [ ] 2406

REINDEER-X

REF. MSN 7213

REQUEST PERMISSION TO PROGRAM REF FOR ENGINEERING  
EVALUATION ON REVS 6, 21, 36, 51, 66, AND 81 FROM 65NA TO 67NA.

~~TOP SECRET~~

CFN: 2406 -X 7213 REF REVS 6 21 36 51 66 81 65NA 57NA

BT

10759

NNNN

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50X1

~~TOP SECRET~~  
Handle via BYEMAN  
Control System

REF ID: A66666

1964 AUG 14 23 34



/ 142310Z ZEA

BT

XXXXX ZEA

FIVE FOUR NINE [ ] EIGHT SIX EIGHT [ ]

SAFSS

10800

7 2 1 3

~~TOP SECRET~~ 142310Z  
[ ] INFO [ ] WHIG CITE [ ] 4551  
REINDEER-X

50X1

A. 72 13

B. PERMISSION GRANTED TO PROGRAM ENGINEERING REVS AS

REQUESTED IN [ ] 2406.

~~TOP SECRET~~

CFN: 4551 -X 72 13 [ ] 2406.

BT

10800

NNNN

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Control System

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Control No.

# OUTGOING

Handle via BYEMAN  
Control System

4308

1964 AUG 3 59

SAFSS

7213

183125Z ZEA  
BT  
XXXXX ZEA  
ZERO TWO SIX OPCEN FOUR EIGHT SIX [ ]  
OPCEN PASS [ ]

~~TOP SECRET~~ 031314Z  
[ ] ADIC [ ] CITE WHIG 1555

50X1

EARPOP  
REINDEER - 37/ [ ]  
A. 7213  
B. 21 SEP 64

~~TOP SECRET~~  
CFN: 1555 EARPOP 37/ [ ] 7213 21 SEP 64  
BT

MMNN 4308

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Handle via BYEMAN  
Control System

Handwritten notes and signatures at the bottom right.

# INCOMING

1964 MAY 1 01 17

SAFSS

07191

/010005Z ZEA ZPO

BT

XXXX ZEA

EIGHT NINE ONE ONE THREE ZERO ZERO NINE TWO

FIVE FIVE EIGHT OPCEH

OPCEH PASS ADIC

7713

~~TOP SECRET~~ 010005Z

ROUTINE THIS INFO ADIC CITE 3184

REINDEER-21

- A. 7213
- B. BIRD DOG - II
- C. LOCATE L-BAND RADARS
- D. 521-648 MC.
- E. JULY 1964

~~TOP SECRET~~

CFM 3184 -21 7213 -II L-BAND 521-648 MC JULY 1964

BT

50X1

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07191

IN

**OUTGOING**

**Handle via BYEMAN  
Control System**

1964 AUG 25 10 46

SAFSS

4663

50X1

/251237Z ZEA ZPO

BT

XXXXX ZEA

FIVE NINE SEVEN

NINE NINE EIGHT

FIVE FOUR SIX

ONE SIX FIVE OPEN

OPEN PASS

~~TOP SECRET 251237Z~~

PRIORITY

ADIC

CITE WING 1644

REINDEER-32

A. 7213

B. 21 SEP 64

C. 2 OCT 64

~~TOP SECRET~~

CFN: 1644 7213 21 SEP 64 2 OCT 64

BT

7213

NNNN

~~TOP SECRET~~

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Control System

4000

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RF-2		3
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50X1

~~TOP SECRET~~

Control System

1964 AUG 25 20 27

SAFSS

4673

'/252014Z ZEA ZPO [ ]

BT  
 XXXX ZEA  
 SIX ZERO ZERO [ ] NINE ZERO THREE [ ] FIVE FIVE TWO [ ]  
 ONE SEVEN TWO OPCEN  
 OPCEN PASS [ ]

~~TOP SECRET~~ 252014Z

PRIORITY [ ] ADIC [ ]

CITE WHIG 1650  
 REINDEER-32 [ ]

- A. 7213
- B. 2 OCT 64
- C. 5 OCT 64
- D. CHANGE BASED ON OPERATIONAL CONSIDERATIONS

~~TOP SECRET~~

CFN: 1650 REINDEER 32 [ ] 7213 2 OCT 64 5 OCT 64  
 OPERATIONAL CONSIDERATIONS  
 BT

7213

NNNN

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50X1

50X1

4673

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