SATELLITE OPERATIONS CENTER

DIRECTIVE 55-100-2 COR

CORONA REPORTS

CONTROL MANUAL

1 MAY 1970

DECLASS REVIEW by NIMA/DOD

NRO review(s) completed.   25X1

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SATELLITE OPERATIONS CENTER   OPERATIONS
DIRECTIVE 55-100-2
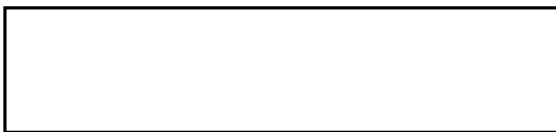
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REPORTS CONTROL MANUAL

1 MAY 70

OFFICIAL:

Colonel, USAF
Deputy Director for
  Satellite Operations
NRO Staff

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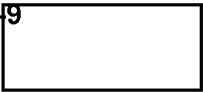**TOP SECRET**
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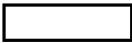1   6   PAGES

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FOREWORD

GENERAL

This manual will be used to exchange information between interested parties regarding a highly classified project. Each recipient is responsible for safeguarding this manual in accordance with existing regulations and directives.

OBJECTIVE

This manual should provide an organized flow of operational information which is clear, concise, and presented in a simple and standard format.

REVISIONS

Revisions may be proposed by any addressee. Recommendations for changes should be forwarded to the NRO Satellite Operations Center for evaluation and approval. Manuals will be revised only by the authority of the Satellite Operations Center. Revisions will be sent by the Satellite Operations Center to applicable manual holders in one of two formats — interim changes or page-for-page changes. Interim changes will be implemented by a [   ] message for pen-and-ink changes to the manual. Page-for-page changes will be published and distributed by the Satellite Operations Center for insertion into the manual. Page-for-page changes will include all previous interim changes. For example, Interim Changes 1-1, 1-2, and 1-3 would be included in a

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page-for-page Change 1. The holder is responsible for the destruction

of superseded pages resulting from a page-for-page change. Revisions

will be recorded on the Record of Revisions page.

PRECEDENCE

Precedence listed for each message is the precedence recom-

mended under normal conditions; however, the originator of the message

may increase or decrease precedence as the situation demands. Flash

precedence has not been used in this manual. It is authorized only in

extreme cases. All dates and times transmitted in messages will be

by the Greenwich date/time group (Zulu time).

EFFECTIVE DATE

This manual becomes effective upon receipt. All previous

editions of this directive will be destroyed in accordance with

appropriate regulations and directives.

TRANSMISSION OF MESSAGES

Messages are assumed transmitted by cable unless specifically

noted otherwise in message format.

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GLOSSARY

I. **INTRODUCTION**

It is imperative that all using organizations are in complete

agreement when using certain terms or designations found in this

manual. If there is a conflict between terminology used in a message

format and those listed below, the ones listed below will be considered

as correct and will be used.

II. **DEFINITIONS AND DESIGNATIONS**

A. **CORONA Operations**

The operational reports contained in this manual apply to

CORONA J-3 systems. To differentiate between the first and second

recovery package of a mission, the first recovery payload will use the

suffix 1, e.g., 1112-1, and the second recovery payload of the mission

will use suffix 2, e.g., 1112-2.

B. **Orbit Pass** (Revolution)

The chronological orbit phase will begin with the satellite's

first northbound crossing of the equator. Orbit pass numbers will

increase sequentially at each northbound crossing of the equatorial

plane for the duration of the vehicle's orbit life.

C. **Quadrant Designations**

For the purpose of defining ascending and descending passes

by latitude, the following quadrant system will be utilized in all

operational reports:

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Quadrant	Latitude	Direction	End of Quadrant
1	North	Northbound	Tangent Point
2	North	Southbound	Equator
3	South	Southbound	Tangent Point
4	South	Northbound	Equator

Example: 262.5 is 62 1/2 degrees North Latitude Descending.

D. Camera On-Off Latitudes

The points of camera turn on and off are designated by the latitude desires of the programmer. To avoid confusion, the quadrant system, paragraph C above, will be used to designate on-off latitudes.

Example:

On	Off
262.5	257.0

The example would designate a descending pass camera program with camera on at 62 1/2 degrees North and off at 57 degrees North.

E. UNIVAC 9300

Wherever this statement appears it refers to transmission via the UNIVAC 9300/DLT (Data Link Terminal) tape/card transmission system.

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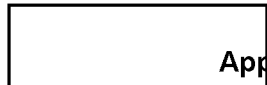
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RECORD OF REVISIONS

Revision Number	Date of Revision	Report Revised	Page Number	Revised By	Date Revised	Entered By
In 59528	10 Sep 70	49	1	am	10 Sep	am
In 62937	23 Oct 70	4	1	am	28 Oct 70	am
In 62937	23 Oct 70	12	1,2	am	28 Oct 70	am
In 62937	23 Oct 70	⬛		am	28 Oct 70	am
		14	1,2	am		
		19	3			
		26	1			
		28,29,48	1,2;1,2;1,2			
		31	1			
		34	1			
		45	1,2			
		65	1,2			
		81	1,2			
		82	1			
		95	1,2			
		101	1			
		124	1,2			
		125	1,2			
		202	1			
		X	1			
In 64617	19 Nov 70	50	3 of 5 1+2 of 2	am	20 Nov 70	am
Change 1, dated 10 Nov 70					09 Dec 70	am
In 65727	8 Dec 70	5,21,22,26, 28,35,57,58, 62,71,75,78, 79,91,92	a/s	am	25 Jan 71	am
In 74296	5 Apr 71	5	1	am	7 Apr 71	am
In 84469	31 Aug 71	72	1	am	3 Sep 71	am

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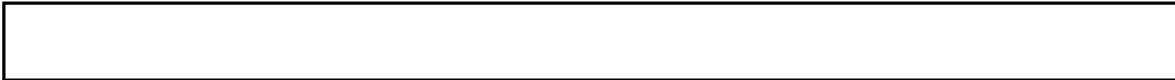
Cover Sheet, Foreword, Glossary, Record of Revisions

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Early Recovery Message	REAGIN-22
Capsule Arrival Eastern US	REAGIN-23
Target List	REAGIN-24
Crash Report	REAGIN-25
Normal Recovery	REAGIN-26
Estimated Pickup Time for Mission Product	REAGIN-28
Planned Ephemeris Data	REAGIN-29
Film Evaluation Report	REAGIN-31
Photographic Evaluation and Processing Team	REAGIN-33
Payload and Vehicle Status Report	REAGIN-34
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Pre-Recovery Report	REAGIN-57
Orbital Ephemeris	REAGIN-58
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DISIC/Emergency Film Consumption Data	REAGIN-65
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Frame Time and Attitude Data	REAGIN-72
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Recovery Code Message	REAGIN-82

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REPORT TITLE	CODE AND NUMBER
DISIC Record Time Report	REAGIN-85
Postlaunch Ephemeris Data Report	REAGIN-90
SRV Tape Recorder/Ephemeris Data	REAGIN-91
Firm Pickup Time for Mission Product	REAGIN-92
Monthly Scheduling Message	REAGIN-95
Courier Travel Message	REAGIN-98
Preliminary Mensuration Parameter File	REAGIN-101
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CTP Camera Operation Selection	REAGIN-202
Command Control Decision	REAGIN-203
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REPORT TITLE	CODE AND NUMBER
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Premission Statistics	REAGIN-208
Emergency Program Area Requirements	REAGIN-209
HPA Summary and Look Ahead	REAGIN-210
CTP Thresholds for HPA's	REAGIN-221
Miscellaneous	REAGIN-X

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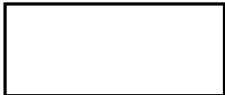
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HPA QUICK READOUT LIST

(REAGIN-2)

1. **Purpose**: To provide the [   ] team at [   ] with a list of high-priority targets that were photographed in the first SRV which require a quick initial readout. This permits the remainder of the mission to be directed more effectively against other priority areas and targets.

2. **Point of Origin**: [   ]

25X1

3. **Classification**: Top Secret

4. **Precedence**: ACTION: Immediate on final message only.

   Priority on all others.

   INFO: Immediate on final message only.

   Priority on all others.

5. **Submitted For**: First SRV of each mission

6. **Report Due Time**:

   a. The first list will be transmitted during Day 3 of the mission.

   b. Supplemental lists will be transmitted every other day, e.g., Day 5, Day 7, etc., to update the first list.

   c. The final supplemental list will be sent on recovery day.

7. **Submitted to**: ACTION: [   ]

   INFO: [   ]

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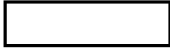**CORONA**

8. Contents Format:

    a. Mission number

    b. Rev span being reported

    c. Target ID

    d. Rev on which target was photographed

    e. Remarks

9. Sample Cable:

ACTION: PRIORITY TO:

INFO: PRIORITY TO:

CITE:

REAGIN-2

A. 1111-1

B. REVS 1 THRU 35

C. ID	D. REV	C. ID	D. REV
H6	8	4A9	27
2A3	21	10A1	29
4A1	24	1A26	34

E. NONE

END OF MESSAGE

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UPDATED ORBITAL ELEMENTS

(REAGIN-3)

1. <u>Purpose</u>: To provide interested agencies with parameters required for orbit computation.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

5. <u>Submitted For</u>: Each mission attaining orbit

6. <u>Report Due Time</u>:

    a. Within 30 minutes after the last acquisition on each of the following revs:

        (1) Rev 1

        (2) Rev 2

        (3) First acquired rev after orbit parameters are adequately determined.

    b. Within 45 minutes after the best (highest acquisition elevation) pass each day (in direction indicated) over the following station acquisitions:

25X1

        (1) Northbound [   ] acquisition

        (2) Southbound [   ] acquisition
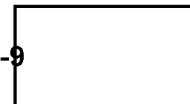
        (3) Southbound [   ] acquisition

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25X1

    c. Within one hour after the second acquired rev following a DMU firing for which tracking and/or H-timer data indicate a variation in DMU effect (from nominal) of 10 percent or greater.

    d.   Within one hour after each update and/or mass prediction.

7. <u>Submitted To</u>: Action:

8. <u>Contents Format</u>:

    a. Mission number

    b. Breakwell orbit elements

    c. Breakwell Ephemeris check points

    d. Torbel orbit elements

    e. Next update rev number

9. <u>Sample Cable</u>:

    TO: ACTION: IMMEDIATE:

    CITE: MAGIC

    REAGIN-3

    A. 1115-1

    B. BREAKWELL ELEMENTS

        REV 137

        AZERO   . 21688760 PLUS 08

        BETAO   . 13929210 PLUS 08

25X1

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ECCENO	.76514370 MINUS 02
C-DECAY	.5288780 MINUS 04
INCLO	.10011170 PLUS 03
RT ASC	.33590110 PLUS 03
TOMEGAO	.29349540 PLUS 05
EPOCHMON	8
EPOCHDAY	18
EPOCHREV	137

C. BREAKWELL EPHEMERIS CHECKPOINTS

REV 137

29349.6	0	.0N	112	37.9W	147.03
30600.0	78	19.7N	176	52.5W	120.04
32400.0	26	19.5S	13	72.9W	156.26

REV 138

34700.3	0	.0N	134	53.6W	146.85
36000.0	79	36.9N	144	30.7E	118.71
37800.0	29	36.8S	26	25.9E	119.75
39600.0	29	35.0S	149	30.3W	155.40

REV 139

40050.9	0	.0N	157	9.2W	146.71
41400.0	79	55.6N	103	12.3E	117.44
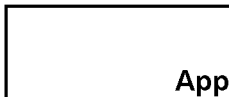
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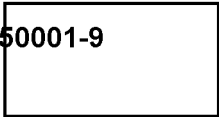
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| 43200.0 | 32 | 54.1S | | 3 | 9.7E | 121.78 |
| 45000.0 | 26 | 20.9S | | 172 | 46.6W | 154.47 |

D. TORBEL ELEMENTS REV 138

RBIAS	138
MONTH	8
DAY	18
CTO	.34700310 PLUS 05
CAO	.21699100 PLUS 08
CEO	.76398910 MINUS 02
CI	.10011350 PLUS 03
COMEGO	.33599760 PLUS 03
D ONE	.13677560 MINUS 05
D TWO	.14064770 MINUS 07
D THREE	.96315780 MINUS 04
CK ONE	.83856960 PLUS 0
CK TWO	.99561020 PLUS 0
CWPO	.13890280 PLUS 03
OMGG	.32591130 PLUS 03

E. NEXT UPDATE FOLLOWING REV 147

END OF MESSAGE

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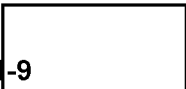
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HPA QUICK READOUT RESULTS

(REAGIN-4)

25X1
1. <u>Purpose</u>: To provide [   ] with cloud-free, interpretable

25X1
results of the [   ] team initial scan of photography of high-priority

targets that were photographed in the first bucket.

25X1
2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: Teletype or UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: ACTION: Immediate

INFO: Priority

6. <u>Submitted For</u>: Each target listed on REAGIN-2 messages

25X1
from [   ]

7. <u>Report Due Time</u>: NLT 12 hours after mission filmload

25X1
arrives [   ]

8. <u>Submitted To</u>: ACTION: [   ]

9. <u>Contents Format</u>:

a. Mission number

b. Forward-looking camera data:

Target ID; pass; frame; X-coordinate; percent of target

cloud free; degree of interpretability of each photographic frame, <u>e. g.</u>,

good, fair, or poor.

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[   ]

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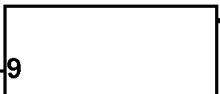DOD DIRECTIVE 5200.10 DOES NOT APPLY

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c. Aft-looking camera data:

Same as for forward camera.

10. Sample Cable:

TO: ACTION: IMMEDIATE:

INFO: PRIORITY:

CITE:

REAGIN-4

A. 1117-1

B. FWD CAMERA

TARGET	PASS	FRAME	X-COORD	WX	INTER
	6	120	9	100	GOOD
	6	121	0	100	POOR
	8	77	68	0	POOR

C. AFT CAMERA

TARGET	PASS	FRAME	X-COORD	WX	INTER
	6	106	16	100	GOOD
	6	107	22	100	GOOD
	8	61	14	0	POOR

END OF MESSAGE

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RECOVERY FORECAST DATE

(REAGIN-5)

1. <u>Purpose</u>: To inform all interested agencies of anticipated recovery date and time of each satellite recovery vehicle (SRV).

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: ~~Priority~~ *IMMEDIATE*

          Info: Priority

5. <u>Submitted For</u>: Each SRV

6. <u>Report Due Time</u>: Not later than 2200Z and at least 48 hours prior to anticipated recovery time.

7. <u>Submitted To</u>: Action: [   ]

          Info: [   ]

8. <u>Contents Format</u>:

    a. Mission number.

    b. Anticipated recovery revolution, ZULU time/date.

9. <u>Sample Cable</u>:

    TO: ACTION: *IMMEDIATE* ~~PRIORITY~~: [   ]

         INFO: PRIORITY: [   ]

    CITE: [   ]

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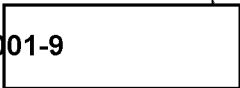COPY _____ OF _____ COPIES
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REAGIN-5

A. 1114-1

B. REV 193, 2234Z/20 MAR 71.

END OF MESSAGE

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TARGET LOCATIONS FOR HPA QUICK READOUT

(REAGIN-6)

1. <u>Purpose</u>: To provide the [   ] Team Leader at [   ]

with target locations for the HPA quick readout message to [   ]

(REAGIN-4).

2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Immediate

6. <u>Submitted For</u>: First SRV of each mission

7. <u>Report Due Time</u>:

   a. First list will be transmitted the day before SRV recovery.

   b. Second list will be transmitted ASAP after receipt of the

[   ] (REAGIN-61) covering the last day of SRV operation.

8. <u>Submitted To</u>: ACTION: [   ] Team Leader

9. <u>Contents Format</u>:

   a. Mission number

   b. Remarks

   c. Target ID, pass, camera, frame, and X-coordinate

10. <u>Sample Cable</u>:

   TO: ACTION: IMMEDIATE: [   ]

   ATTN: [   ] TEAM LEADER

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NRO

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25X1

TOP SECRET

CORONA

25X1

CITE: ☐

REAGIN-6

A.   1117-1

B.   TARGET LOCATIONS FOR PASSES 1 THRU 123.

C.   TARGET

PASS	CAMERA	FRAME	X-COORD
6	F	120	9
6	F	121	0
6	A	106	16
6	A	107	22
8	F	77	68
8	A	61	14

END OF MESSAGE

25X1

CORONA

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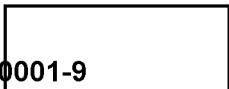
CORONA

CAPSULE MOVEMENT EASTERN US

(REAGIN-7)

25X1

1.   Purpose: To inform [ ] of the new estimated time of

arrival (ETA) of the recovered capsule in the Eastern US.   This message

is sent only when the new ETA varies from the ETA forecast in the

REAGIN-39 message by one hour or more.   This message is not sent

25X1

when defilming is done at [ ]

25X1

2.   Point of Origin: [ ]

3.   Classification: Top Secret

4.   Precedence: Action: Immediate

Info: Priority

5.   Submitted For: Each recovered capsule

6.   Report Due Time: Immediately after capsule departs West

Coast.

25X1

7.   Submitted To: Action: [ ]

Info: [ ]

25X1

8.   Contents Format:

a.   Mission number

b.   ETA (Z) and place (normally Niagara Falls) on East

Coast

25X1

9.   Sample Cable:

CORONA

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CORONA

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25X1

TO: ACTION: IMMEDIATE:

INFO: PRIORITY:

25X1

CITE:

REAGIN-7

A. 1114-1

B. 0830Z/22 MAR,

25X1

END OF MESSAGE

25X1

CORONA

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CORONA

ORBITAL ELEMENTS FOR CTP

(REAGIN-8)

25X1

1. <u>Purpose</u>: To provide [ ] with breakwell elements and station acquisition data for input to the CORONA Targeting Program (CTP) prior to and during each mission.

25X1

2. <u>Point of Origin</u>: [ ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Immediate

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: a. Planning Data: Upon request by [ ]

25X1

    b. Nominal Mission Data: Within 48 hours after mission selection.

    c. In-Flight Data: Within 4 hours of the last descending pass over primary area of interest for mission.

25X1

8. <u>Submitted To</u>: Action: [ ]

9. <u>Data Coverage</u>: a. Planning and nominal data: Will cover a minimum of 325 revs.

    b. In-Flight Data: All transmissions will start with the current rev at the time of transmission and will end on Rev 325 or later.
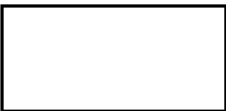
25X1

CORONA

[ ]

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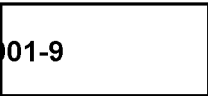EXCLUDED FROM AUTOMATIC REGRADING
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CORONA

25X1

10. <u>Contents Format</u>:

a. Mission number, rev coverage, and element reference time.

b. Launch month, day, year and time (Z); and dispersion factors.

c. Breakwell elements.

d. Acquisition data.

11. <u>Sample Cable</u>:

25X1
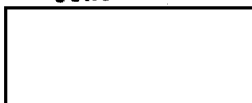
REAGIN-8

A. 1114-1 NOMINAL DATA - REVS 1 - 325   0

B. 0310712130   0.1   0.07

C. 0.21731994E 08   0.10043079E-01   0.17455192E 01

0.21100723E 05   0.38095850E-00   0.34902890E 04

0.24085034E 05   0.61848798E-01   0.14227287E 05

25X1

D.

1	0.31574115E 02	0.46544185E
1	0.50317397E 01	0.51804086E
1	0.36067027E 01	0.57501148E
2	0.31532457E 02	0.99414523E
2	0.53905441E 02	0.10448217E
2	0.45870738E 01	0.11034220E

19 CARDS IN THIS DECK INCLUDING THIS CARD
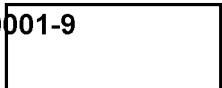
END OF MESSAGE

CORONA

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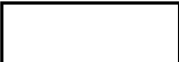**TOP SECRET**

25X1

CORONA

POST-FLIGHT CAPSULE DATA

(REAGIN-9)

25X1

1. <u>Purpose</u>: To provide [   ] with post-flight capsule data for capsule performance evaluation

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                  Info: Priority

5. <u>Submitted For</u>: Each recovered capsule

6. <u>Report Due Time</u>: 12 hours after recovery each capsule

7. <u>Submitted To</u>: [   ]

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Capsule recovery date and time

   c. Capsule data

      (1) Suspended weight of capsule as received including harness, within plus or minus 0.25 lb. accuracy.

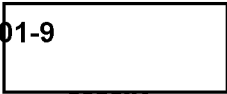   (2) Weight of harness within plus or minus 0.1 lb. accuracy.

25X1

CORONA

[   ]

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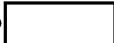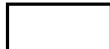
25X1

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CORONA

25X1

(3) Measurement of panoramic film radius for each spool as a measure of depth from the spool rim to the film.

(4) A measure of roundness of the panoramic film wrap for each spool. This shall consist of a minimum of four measurements equally spaced around the spool.

(5) A statement of capsule condition including any observed physical defects or abnormalities.

(6) A measurement of stellar and index film diameter.

(7) Comments regarding secondary payloads, which are engineering samples or experiments not related to the primary mission. These secondary payloads are to be left in, or attached to, the capsule. They will be removed from the capsule when that capsule is returned to [   ] If any secondary payload is flown that requires special attention, [   ] will be notified by TWX on or before the day of launch. This notification will include precise handling and/or reporting instructions.
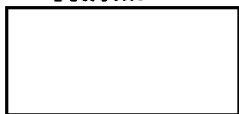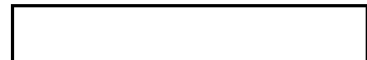
25X1
25X1

9. Sample Cable:

25X1

REAGIN-9

25X1

CORONA

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CORONA

A. 1114-1

B. 20MAR71/2313Z

C. CAPSULE DATA

   (1) 174. 5

   (2) 13. 2

   (3) FWD 0. 173; AFT 0. 225

   (4) FWD   AFT

FWD	AFT
0. 20	4. 34
0. 21	4. 34
0. 21	4. 33
0. 20	4. 34

   (5) NO PHYSICAL DAMAGE TO CAPSULE NOTED

   (6) STELLAR - 2. 3125

   INDEX - 1. 9375

   (7) NO SECONDARY PAYLOADS

END OF MESSAGE

25X1

CORONA

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25X1

CORONA

MISSION-UNIQUE INTELLIGENCE REQUIREMENTS

(REAGIN-11)

25X1   1. Purpose: To provide [   ] with the list of mission-unique

requirements for each mission.

25X1   2. Point of Origin: [   ]

3. Transmission of Message: Cable or by COMIREX letter

4. Classification: Top Secret

5. Precedence: Action: Priority

               Info: Priority

6. Submitted For: Each mission

7. Report Due Time: NLT seven days prior to launch

25X1   8. Submitted To: [   ]

9. Contents Format:

a. Mission number

b. Extraordinary requirements

(1) COMIREX ID, WAC cell numbers or other designator

(2) Name of target, area, and/or country

(3) Latitude and longitude of target or points which

define an area

c. Priority One requirements

25X1   (1) COMIREX ID, WAC cell numbers or other designator

CORONA

[   ]

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25X1

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CORONA

(2) Name of target, area, and/or country

(3) Latitude and longitude of target or points which define an area.

    d. Priority Two requirements

        (1) COMIREX ID, WAC cell numbers or other designator

        (2) Name of target, area, and/or country

        (3) Latitude and longitude of target or points which define an area.

    e. Priority Three requirements

        (1) COMIREX ID, WAC cell numbers or other designator

        (2) Name of target, area, and/or country

        (3) Latitude and longitude of target or points which define an area.

    f. Priority Four requirements

        (1) COMIREX ID, WAC cell numbers or other designator

        (2) Name of target, area, and/or country

        (3) Latitude and longitude of target or points which define an area.

(NOTE: Additional paragraphs may be added if there are more than four priorities.)

    g. Remarks, footnotes, or additional mission guidance

25X1

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25X1

25X1

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10. <u>Sample Cable</u>:

TO: ACTION: PRIORITY: [   ]

25X1

INFO: PRIORITY: [   ]

25X1

CITE: [   ]

25X1

REAGIN-11

A. 1116

B. EXTRAORDINARY

25X1

C. PRI I

PLESETSK MISSILE AND SPACE CTR, UR	625615N0403700E
KOSTROMA ICBM CPLX, UR	580012N0412225E
OSTROV MRBM CPLX, UR	573410N0281240E
GUBA SAYDA SUB BASE, UR	691500N0331900E
PEIPING CPLX, CH	395517N1162400E
POSSIBLE MRBM AREA 1, CH	500900N1241400E
POSSIBLE MRBM AREA 1, CH	492500N1272200E
POSSIBLE MRBM AREA 1, CH	405800N1175300E
POSSIBLE MRBM AREA 1, CH	423800N1293300E
ULAN BATOR, MG	475500N1065500E

25X1

25X1

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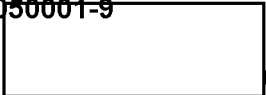
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CORONA
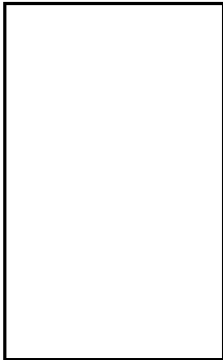
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25X1

CH		
CH		
CH		
CH		
CH		
NORTH KOREA	TOTAL AREA	
NORTH VIETNAM	TOTAL AREA	
***USSR/MONGOLIA AND		
CHINA BORDER AREA		
SPECIAL AREA	500000N0800000E	
	500000N0890000E	
	420000N0800000E	
	420000N0890000E	

D. PRI II

25X1

YURYA ICBM CPLX, UR	591100N0493000E	
OMSK ICBM LNCH CPLX, UR	550735N0733310E	
CASPIAN SEA SEARCH, UR	470000N0463000E	
	470000N0540000E	
	420000N0463000E	
	420000N0540000E	

25X1

CORONA
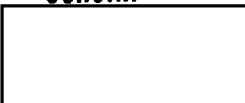
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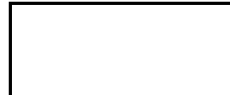
CORONA

IMPACT AREA, CH	410900N0801400E
	392900N0755900E
	370700N0795500E

E. PRI III

SYRIA	TOTAL AREA
	TOTAL AREA
IRAQ	W OF 43E
EGYPT	E OF 29E
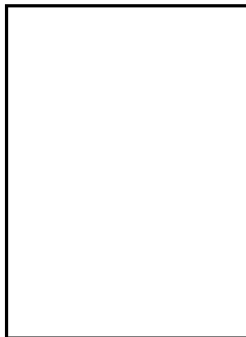
25X1

25X1

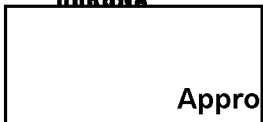F. PRI IV

25X1

****MAPPING AND CHARTING

G. FOOTNOTES

* - PHOTOGRAPH ONCE PER SRV.

** - SEARCH A 70-MILE RADIUS AROUND TARGET.

*** - SEARCH 100 MILES ON EACH SIDE OF THE

BORDER LINE.

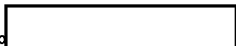**** - PHOTOGRAPH WHENEVER SPECIFIED

MINIMUM CRITERIA ARE MET.

END OF MESSAGE

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CORONA

INITIAL PROGRESS REPORT

(REAGIN-12)

25X1

1. <u>Purpose</u>: To inform [   ] of the progress of a launched mission.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: Each mission successfully launched.

6. <u>Report Due Time</u>: Submitted as soon as information becomes available.

7. <u>Submitted To</u>:

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Period

   c. Perigee altitude, apogee altitude

   d. Eccentricity

   e. Inclination angle

   f. Camera status

   g. Space track object number and international designator

25X1

CORONA

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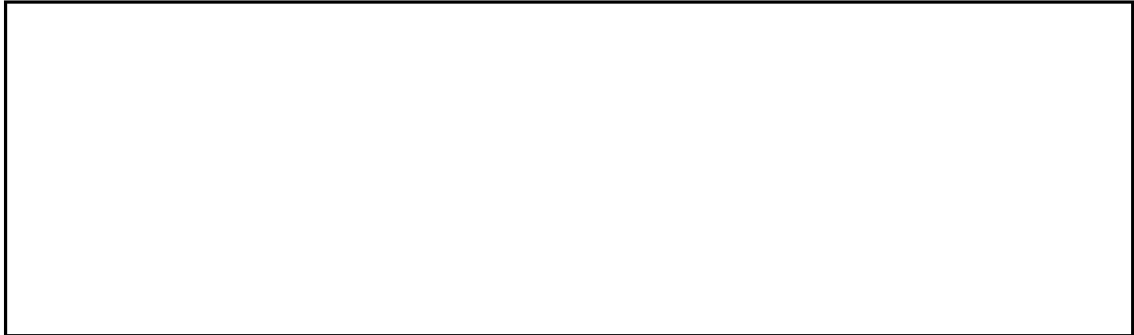CHANGE 1, 10 Nov 70

25X1

TOP SECRET

CORONA

25X1

    h. Remarks

9. <u>Sample Cable</u>:

REAGIN-12

A. 1115

B. 88.8 MIN

C. 99.5 NM, 146.0 NM

D. .00653

E. 85 DEGREES

F. OPERATING ON PASS ONE OVER

G. 4102-1971-79A

H. ALL DATA INDICATES SUCCESS

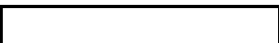   END OF MESSAGE

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CORONA

INFLIGHT GROUND TRACKS

(REAGIN-14)

25X1

1. Purpose: To provide [ ] with actual ground tracks daily during each mission.

25X1

2. Point of Origin: [ ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Immediate

6. Submitted For: Each mission

7. Report Due Time: a. ASAP after second acquired rev each mission and following each orbit adjust.

b. ASAP after the best (highest acquisition evaluation) ascending VAFB pass daily.

25X1

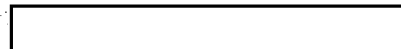8. Submitted To: Action: [ ]

9. Contents Format:

a. Mission number

b. Epoch rev number

c. Orbit period

d. Perigee height and location

e. Apogee height
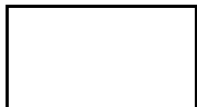
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CORONA

f. Eccentricity

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CORONA

g. Inclination

h. Ground Track Data - rev no.; Z time; latitude at 5-degree intervals; longitude; altitude in nautical miles; half-swath width in nautical miles; sun angle.

10. Sample Cable:

TO: ACTION: IMMEDIATE:

25X1

CITE:
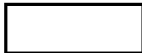
REAGIN-14

A. 1115

B. DATA BASED ON REV 82

C. 90.94 MIN

D. 101.9 NM AT 30 DEGREES NORTH

E. 253.1 NM

F. 0.020927

G. 85.00 DEG

H. GROUND TRACKS

REV NO. 1

22	32	58	80N	73	5.2E	166.9	121.0	13
22	34	55	85N	122	23.4E	157.6	114.3	28
22	35	9	85N	132	56.3E	156.5	113.5	72
22	37	21	80N	166	17.6E	146.2	106.0	27
22	38	42	75N	156	11.1E	139.9	101.4	46

END OF MESSAGE
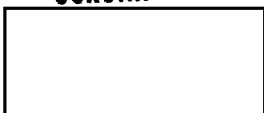
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CORONA

ORBITAL ELEMENTS FOR

25X1
NRO

(REAGIN-15)

25X1

1. <u>Purpose</u>: To provide [   ] with in-flight and post-flight

25X1

[   ] input data.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Immediate

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: a. Daily [   ] ASAP each day of the

mission.

b. Final [   ] Due NLT 12 hours after

arrival of REAGIN-48.

25X1

8. <u>Submitted To</u>: Action: [   ]

9. <u>Contents Format</u>:

a. Mission number

b. Message identification

c. Breakwell elements and camera operations data

10. <u>Sample Cable</u>:

TO: ACTION: IMMEDIATE: [   ]

25X1

CITE: [   ]

25X1

REAGIN-15

CORONA

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25X1

25X1

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CORONA

25X1

25X1

A. 1113 FINAL SUMMARY REVS 1-146

B. [   ] INPUT DATA

C. 0.21959440E   08   0.19990858E-01   0.14845686E

   0.17902566E   05   0.85854638E-00   0.79925750E

   FWD   1   122.5514   124.9465   81780   81816

   AFT   1   122.2982   164.7274   81792   81828

END OF MESSAGE

25X1

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25X1

CORONA

FINAL ACCELERATION EPHEMERIS

(REAGIN-16)

25X1

1. Purpose: To provide interested agencies with acceleration ephemeris data for each mission.

2. Point of Origin:

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

    Info: Routine

6. Submitted For: With each REAGIN-58A and -58B

7. Report Due Time: Normally no longer than 3 days after completion of mission.

8. Submitted To: Action: Priority:

    Info: Routine:

25X1
25X1

9. Contents Format:

    First Data Line

    a. Code

    b. Revolution Number

    c. Year

    d. Month
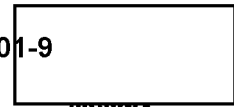
    e. Day

    f. System Time in Seconds

25X1

CORONA

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TOP SECRET

CORONA

25X1

g. X Component in Feet

h. Y Component in Feet

i. Z Component in Feet

j. X-Dot Component in Feet/Second

k. Y-Dot Component in Feet/Second

Second Data Line

m. Revolution Number

n. Year

o. Month

p. Day

q. System Time in Seconds

r. Z-Dot Component in Feet/Second

s. X-Double Dot Component in Feet/Second Squared

t. Y-Double Dot Component in Feet/Second Squared

u. Z-Double Dot Component in Feet/Second Squared

NOTE: DUE TO VOLUMINOUS AMOUNT OF DATA, A

SAMPLE CABLE OF THIS MESSAGE IS NOT INCLUDED

IN THIS MANUAL.

CORONA

25X1

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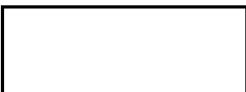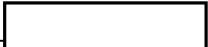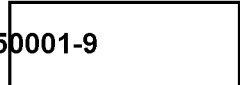PAGE __2__ OF __2__ PAGES

25X1

TOP SECRET

25X1

CORONA

FILM DUPLICATION REQUIREMENTS

(REAGIN-17)

1. <u>Purpose</u>: To provide interested agencies with the necessary special processing requirements for each new mission.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                 Info: Priority

5. <u>Submitted For</u>: As required

6. <u>Report Due Time</u>: Twenty-four hours prior to the expected film arrival time at the processing site

7. <u>Submitted To</u> [   ]

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Duping requirements main cameras:

      (1) Priority number

      (2) Customer designation

      (3) Processing requirements for operational coverage

      (4) Processing requirements for domestic coverage

25X1

CORONA

[   ]

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25X1

   c. Duping requirements stellar camera:

      (1) Customer designation

      (2) Processing requirements

   d. Duping requirements framing camera:

      (1) Priority number

      (2) Customer designation

      (3) Processing requirements

   e. Special requirements

   f. Classification of product

   g. Special instructions

9. Sample Cable:

25X1

REAGIN-17

A. 1115
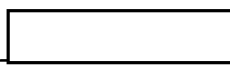
B.	(1)	(2)	(3)	(4)
	1	A	4DP, 1DN	2DP, 1DN
	2	B	1DP, 1DN	1DN
		C	1DP, 1DN	1DP
	3	H	1DP, 1DN	

25X1

CORONA

25X1

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C. (1)   (2)

    A   1DP, 1DN

    Z   1DP

    TP   1DP

D. (1)   (2)   (3)

    1   A   1DP, 1DN

    1   C   1DP

    1   H   1DP, 1DN

E. ALL DPS IN PRIORITY 1 AND 4 ARE TO BE WAXED.

F. TOP SECRET [   ]   25X1

G. UPON COMPLETION PRIORITY 4, THE ORIGINAL NEG

25X1
NRO
review(WILL BE SHIPPED [   ] FOR PRODUCTION OF PRIORITIES 5, 6 AND 7.

                        END OF MESSAGE

25X1

25X1

CORONA

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CORONA

25X1

CAPSULE MOVEMENT REPORT

(REAGIN-18)

1. <u>Purpose</u>: To inform interested agencies that the capsule will be returned to Western U.S. for inspection prior to shipment to Eastern U.S.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Action: Priority

4. <u>Submitted For</u>: Each recovery

5. <u>Report Due Time</u>: As soon as possible after decision is made to inspect capsule prior to shipment to Eastern U.S.

6. <u>Submitted To</u>:

25X1

7. <u>Contents Format</u>:

    a. Mission number

    b. Actual time (Z) capsule arrived at Hickam

    c. Actual time (Z) capsule departed Hickam

    d. Estimated time (Z) of arrival and destination in Western U.S.

    e. Alternate destination in Western U.S.

    f. Condition of capsule

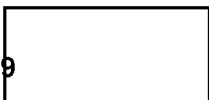   g. Name of courier having responsibility for the capsule

25X1

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[   ]

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25X1

CORONA

25X1

h.   Aircraft commander, aircraft type and tail number

8.   Sample Cable:

25X1

REAGIN-18

A.   1112-1

B.   29/0010Z

C.   29/0200Z

D.   29/0810Z MOFFET FIELD

E.   TRAVIS AFB

F.   SMALL DENTS AND SCRATCHES

G.

H.

END OF MESSAGE

25X1

CORONA

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25X1

25X1

25X1

PRELIMINARY CAMERA DATA

(REAGIN-19)

1. <u>Purpose</u>: To inform [   ]of camera

settings for the mission.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                Info: Routine

5. <u>Submitted For</u>: Each mission. All camera settings, filters,

and type film to be used will be listed.

6. <u>Report Due Time</u>: NLT four days prior to desired launch.

25X1

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

    a. Mission number

    b. Launch date/optimum time, launch window

    c. Camera settings and filters

        (1) Aft-looking camera number

           (a) Position 1 Setting

               Position 2 Setting

               Position 3 Setting

               Position 4 Setting

25X1

25X1

CORONA

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25X1

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Failsafe Setting

(b) Primary Filter Type

Alternate Filter Type

(2) Forward-looking camera number

(a) Same as aft camera information

(b) Same as aft camera information

(3) DISIC stellar

(a) Port camera number, setting, type filter

(b) Starboard camera number, setting, type filter

(4) DISIC terrain number, setting, type filter

(5) Aft-looking horizon camera

(a) Supply (starboard) setting, filter

(b) Take-up (port) setting, filter

(6) Forward-looking horizon camera

(a) Supply (port) setting, filter

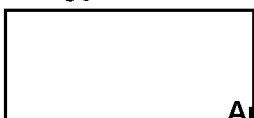(b) Take-up (starboard) setting, filter

d. Type film for:

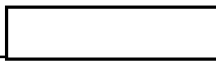(1) Aft-looking camera

(2) Forward-looking camera

(3) DISIC stellar

(4) DISIC index

25X1

25X1

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(REAGIN-19)

TOP SECRET

9. Sample Cable:

REAGIN-19

A. 1116

B. 11 SEP 1971/2130Z   2130Z-2230Z

C. SETTINGS AND FILTERS

    (1) AFT-LOOKING CAMERA 304

        (A) POSITION 1   .134 INCHES

             POSITION 2   .170 INCHES

             POSITION 3   .215 INCHES

             POSITION 4   .250 INCHES

             FAILSAFE   .250 INCHES

        (B) PRIMARY FILTER W/21

             ALTERNATE FILTER SF-05

    (2) FORWARD-LOOKING CAMERA 305

        (A) POSITION 1   .215 INCHES

             POSITION 2   .270 INCHES

             POSITION 3   .340 INCHES

             POSITION 4   .340 INCHES

             FAILSAFE   .340 INCHES

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(B) PRIMARY FILTER W/25

ALTERNATE FILTER SF-09

(3) DISIC STELLAR

(A) PORT (4P)-F2.8, 1.5 SEC NO FILTER

(B) STARBOARD (4)-F2.8, 1.5 SEC NO FILTER

(4) DISIC TERRAIN (4)-F4.5, 1/500 W-12 FILTER

(5) AFT-LOOKING HORIZON CAMERA

(A) SUPPLY (STARBOARD) -F6.3, WRATTEN 25

(B) TAKE-UP (PORT) -F6.3, WRATTEN 25

(6) FORWARD-LOOKING HORIZON CAMERA

(A) SUPPLY (PORT) F6.3, WRATTEN 25

(B) TAKE UP (STARBOARD) -F8.0, WRATTEN 25

D. (1) 3404 WITH SO-230 LAST 2500 FEET

(2) 3404 WITH SO-230 LAST 2000 FEET

(3) 3401/3400 LAST 200 FEET

(4) 3400

END OF MESSAGE

25X1

CORONA

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CORONA

25X1

CAPSULE COURIER MESSAGE

(REAGIN-20)

25X1

1. <u>Purpose</u>: To inform [   ] of the name of the [   ]

courier responsible for capsule security.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

Info: Routine

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: NLT L-1 day

25X1

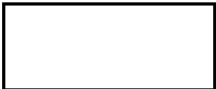7. <u>Submitted To</u>: [   ]

8. <u>Contents Format</u>:

a. Mission number

b. Courier name and badge number

c. Will courier travel via MAC aircraft to Hawaii?

d. Has courier been briefed on mission and his

responsibilities?

e. Remarks

9. <u>Sample Cable</u>:

25X1

25X1

CORONA

25X1

25X1

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(REAGIN-20)

TOP SECRET

25X1

25X1

CITE: [   ]

REAGIN-20

A. 1116

25X1

B. [   ]

C. YES

D. YES

E. NONE

END OF MESSAGE

25X1

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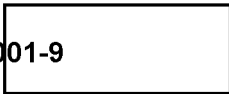
25X1

25X1

FILM MOVEMENT REPORT

(REAGIN-21)

1. Purpose: To inform interested agencies of the movement

of recovered film within the continental United States.

25X1   2. Point of Origin: ☐

3. Classification: Top Secret

4. Precedence: Action: ~~Priority~~ /MMEDIATE

            Info: Routine

5. Submitted For: Each movement of recovered film

6. Report Due Time: ASAP after information available

7. Submitted To:

                                                        25X1

8. Contents Format:

    a. Mission number

    b. Place, date and time film arrived in U.S.

    c. Film is contained in SRV capsule - yes or no.

    d. Courier and itinerary (including carrier and flight

number) for primary parcel within U.S.

    e. Courier and itinerary (including carrier and flight

number) for secondary parcel within U.S.

    f. Remarks

25X1

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25X1

TOP SECRET

CORONA

25X1

25X1

9. Sample Cable:

REAGIN-21

A. 1114-1

B. MOFFETT NAS 04/1330Z

C. NO

25X1 D. ☐ DEPT S.F. 22/0030 PDT ABD

AA NBR 44, ARR CHICAGO 22/0605 CDT: DEPT ABD AA FLT NBR

25X1 ☐

25X1 E. ☐ DEPT S.F. 22/0015 PDT ABD UAL FLT

NBR 848, ARR CHICAGO 22/0615 CDT, DEPT 22/0805 CDT ABD UAL

25X1 ☐

25X1 F. ☐ CARRYING INSTRUMENT DATA LOG.

END OF MESSAGE

25X1

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25X1

EARLY RECOVERY MESSAGE

(REAGIN-22)

1. <u>Purpose</u>: To notify interested agencies of the decision to recover the satellite recovery vehicle earlier than anticipated.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: Each mission on which an early recovery is required. This message will only be sent in the event recovery is required earlier than the normal recovery pass. This does not affect

25X1

[   ] authority to make recovery decisions for technical reasons.

6. <u>Report Due Time</u>: Will be at [   ] not later than eight hours prior to planned recovery time.

25X1

7. <u>Submitted To</u>:

25X1

8. Contents Format:

   a. Mission number.

   b. Recommended recovery pass number.

   c. Reason for early recovery.

   d. Remarks.

25X1

25X1

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[   ]

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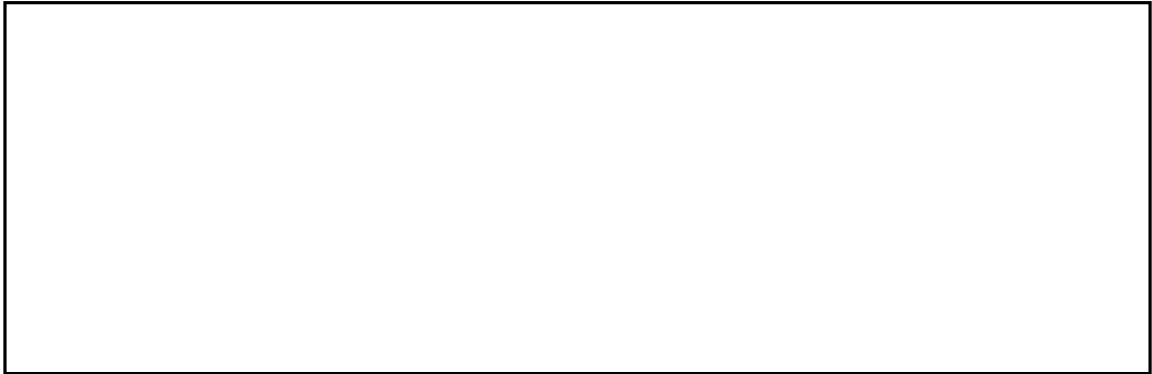PAGE __1__ OF __2__ PAGES
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TOP SECRET

25X1

9. Sample Cable:

25X1

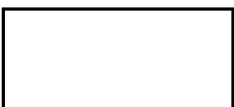REAGIN-22

A. 1114-1

B. 33

C. HIGH RADIATION COUNT.

D. ANALYSIS OF RADIATION DOSAGE RECEIVED FIRST

TWO DAYS REQUIRE EARLY RECOVERY TO SALVAGE USABLE FILM

OF HIGH–PRIORITY TARGET AREA.

END OF MESSAGE

25X1

25X1

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25X1

CORONA

CAPSULE ARRIVAL EASTERN US

(REAGIN-23)

1. <u>Purpose</u>: To inform interested agencies of the film

arrival at ☐ and to inform ☐ of the capsule arrival at ☐

whenever defilming is not done a☐ REAGIN-40 is not sent

when this message is sent.

2. <u>Point of Origin</u>: ☐

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

Info: Routine

5. <u>Submitted For</u>: Each recovered capsule

6. <u>Report Due Time</u>: Immediately upon capsule arrival at ☐

7. <u>Submitted To</u>: ☐

8. <u>Contents Format</u>:

a. Mission number

b. Actual time (Z) of arrival at ☐

c. Condition of shipping container

d. Estimated time ☐ expects to begin work on film

e. Remarks

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25X1

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25X1

CORONA

9. <u>Sample Cable</u>:

REAGIN-23

A. 1114-2

B. 01/1240Z

C. UNDAMAGED

D. 01/1930Z

E. COURIER, [   ] DEPARTING [   ]

01/1630Z, ESTIMATES ARRIVE HOME STATION 02/0200Z.

END OF MESSAGE

25X1

TOP SECRET
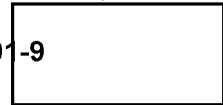EXCLUDED FROM AUTOMATIC REGRADING
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25X1

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25X1

25X1

            TARGET LIST

           (REAGIN-24)

25X1 1. <u>Purpose</u>: To provide [ ] with data for COMIREX target

25X1 names for use in [ ] runs.

25X1 2. <u>Point of Origin</u>: [ ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT or courier

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: Normally on day of launch

25X1 8. <u>Submitted To</u>: Action: [ ] (OSP)

9. <u>Contents Format</u>:

    a. Mission number

25X1   b. Target data for [ ]

        (1) WAC number

25X1   (2) [ ] number

        (3) Name

        (4) Country code

        (5) Alphabetic indicator

        (6) Coordinate

        (7) COMIREX number

        (8) BE number

25X1

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25X1

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25X1

CORONA

25X1

10. <u>Sample Cable</u>:

TO: ACTION: PRIORITY:

CITE:

REAGIN-24

A. 1115

B. TARGET DATA FOR

25X1
NRO

(1) 615

(2) 14

(3) NAN-NING COMPLEX

(4) CH

(5) 85

(6) 22 49 11N 108 19 11E

(7)

(8)

END OF MESSAGE

NOTE: Ordinarily, the data format of the above information will be horizontal. The vertical data format above is used as a convenience in preparing this manual.
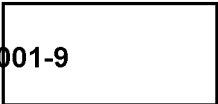
TOP SECRET

CORONA

25X1

CRASH REPORT

(REAGIN-25)

1. Purpose: To inform [   ] of any mishap to the vehicle involving the destruction of property, injury to persons, loss of life or possible security violation.

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Immediate

    Info: Priority

5. Submitted For: Any vehicle involved in a disaster. If this report is sent, an abort report will not be required.

6. Report Due Time: ASAP after a disaster occurs.

7. Submitted To: [   ]

8. Contents Format:

    a. Mission number

    b. Date/time of occurrence (Z)

    c. Place of occurrence

    d. Property damage

    e. Personnel injury or death

    f. Damage to vehicle

25X1

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25X1

g. Brief description of events. Include disposition of nose

cone.

h. Salvage plan

9. Sample Cable:

25X1

REAGIN-25

A. 1115

B. 10/1905Z

C. VANDENBERG AFB

D. NEGATIVE

E. TWO OF LAUNCH CREW INJURED

F. PARTIALLY DESTROYED

G. HIGH WIND BLEW CHERRY PICKER AGAINST

VEHICLE. SPECIAL EQUIPMENT REMOVED WITHOUT

COMPROMISE.

H. UNKNOWN AT THIS TIME

END OF MESSAGE

25X1

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25X1

25X1

CORONA

NORMAL RECOVERY

(REAGIN-26)

25X1

25X1

1. <u>Purpose</u>: To inform ⬚ of the recovery of the capsule.

2. <u>Point of Origin</u>: ⬚

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: Each recovery

6. <u>Report Due Time</u>: ASAP after recovery

25X1

7. <u>Submitted To</u> ⬚

8. <u>Contents Format</u>:

   a. Mission number

   b. Time (Z) and date of recovery

   c. Method of recovery

   d. Condition of capsule

9. <u>Sample Cable</u>:

   TO: ACTION: IMMEDIATE: ⬚

   INFO: PRIORITY: ⬚

25X1
25X1

25X1

CORONA

⬚

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X1
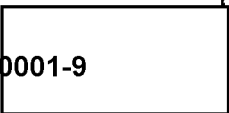
TOP SECRET

25X1

CORONA

25X1

REAGIN-26

A. 1115-1

B. 16/2010Z

C. AIR

D. SEVERAL SMALL HOLES IN CAPSULE

END OF MESSAGE

25X1

25X1

CORONA

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CORONA **X1**

ESTIMATED PICKUP TIME FOR MISSION PRODUCT

(REAGIN-28)

25X1

1. <u>Purpose</u>: To enable [   ] to begin planning action that will

insure aircrews and aircraft are available to airlift mission product

25X1

from [   ]

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

Info: Priority

5. <u>Submitted For</u>: As required

6. <u>Report Due Time</u>: To be transmitted NLT 18 hours after the

25X1

mission film arrives at [   ]

7. <u>Submitted To</u>: [   ]   25X1

8. <u>Contents Format</u>:

a. Mission number

b. Priority, customer designator, number of copies,

estimated date/time (Z) of pickup.

c. Estimated number of boxes, cube and weight

d. Estimated special shipments, number of boxes, cube

and weight.

25X1

CORONA

[   ]

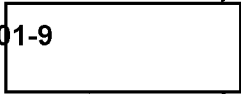CONTROL NO [   ]   25X1

COPY _____ OF _____ COPIES

PAGE ___1___ OF ___2___ PAGES

CHANGE 1, 10 Nov 70

TOP SECRET

25X1

CORONA

25X1

9. Sample Cable:

REAGIN-28

A. 1116-1

B. PRIORITY   CUSTOMER   COPIES   DATE/TIME

    1A   A   6   13/1600Z

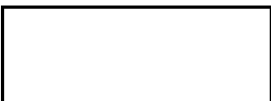   2   C   1   13/1700Z

C. ESTIMATE EACH COPY 13 BOXES, 36 CUBE, 520 POUNDS.

D. N/A

END OF MESSAGE

25X1

CORONA

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CORONA

PLANNED EPHEMERIS DATA

(REAGIN-29)

1. <u>Purpose</u>: To provide interested agencies with the planned ephemeris data for the next mission.

25X1

2. <u>Point of Origin</u>: [ ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

     Info: Priority

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: Normally 72 hours after receipt of REAGIN-55, but NLT 6 days prior to launch

7. <u>Submitted To</u>: [ ]

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Period

   c. Altitude

      (1) Perigee

      (2) Apogee

   d. Eccentricity

   e. Inclination angle

   f. Active life

25X1

CORONA

[ ]

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25X1

CORONA

g. Estimated date/time (Z) of launch

h. Launch window limits (Z time)

i. Effect of Beta angle shift

j. AGENA number

k. Film payload weight

l. Camera serial number

    (1) Forward-looking pan

    (2) Aft-looking pan

    (3) DISIC

9. <u>Sample Cable</u>:

25X1

REAGIN-29

A. 1116

B. 88.44 MINUTES

C. (1) 100 NM

    (2) 125.5 NM

D. .00413

E. 82 DEGREES

F. ACTIVE: 20 DAYS

G. 01/1900Z

H. 1900Z TO 2100Z

25X1

25X1

CORONA

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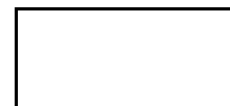
TOP SECRET

25X1

CORONA

I. B SHIFT WILL ELIMINATE ASCENDING COVERAGE
AFTER 12 DAYS BECAUSE OF INSUFFICIENT SOLAR
ILLUMINATION.

J. 1632

K. 160 LBS

L. (1) 370

(2) 371

(3) 11

END OF MESSAGE

25X1

CORONA

TOP SECRET

CONTROL NO

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CORONA

25X1

FILM EVALUATION REPORT

(REAGIN-31)

1. <u>Purpose</u>: To provide [   ] with the basic

information required to evaluate quality of film and level of success

achieved.

25X1

2. <u>Point of Origin</u>: [   ] team leader at [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

      Info: Routine

5. <u>Submitted For</u>: Each recovered filmload

6. <u>Report Due Time</u>: As soon as available after each recovery

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

 a. Mission number, system number

 b. Vehicle attitude

 c. Camera numbers and camera operation

  (1) Forward-looking panoramic camera

  (2) Aft-looking camera

  (3) Stellar cameras

25X1

CORONA

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CORONA

25X1
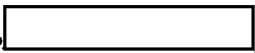
    (A) Starboard camera

    (B) Port camera

  (4) Index camera

 d. Apparent image quality

  (1) Forward-looking panoramic camera

  (2) Aft-looking panoramic camera

  (3) Stellar camera

    (A) Starboard camera

    (B) Port camera

  (4) Index camera

 e. Binary operation

  (1) Forward-looking panoramic camera

  (2) Aft-looking panoramic camera

  (3) Stellar camera

  (4) Index camera

 f. Pan geometry border data

  (1) Collimator traces

    (A) Forward-looking panoramic camera

    (B) Aft-looking panoramic camera

  (2) Rail hole images

    (A) Forward-looking panoramic camera

    (B) Aft-looking panoramic camera

25X1

CORONA

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(REAGIN-31)
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CORONA

    g. Frequency marks

        (1) Forward-looking panoramic camera

        (2) Aft-looking panoramic camera

    h. Horizon camera operation

        (1) Forward-looking panoramic camera

            (A) Starboard horizon camera

            (B) Port horizon camera

        (2) Aft-looking panoramic camera

            (A) Starboard horizon camera

            (B) Port horizon camera

    i. Light leaks

        (1) Forward-looking panoramic camera

        (2) Aft-looking panoramic camera

        (3) Stellar camera

        (4) Index camera

    j. Static fog

        (1) Forward-looking panoramic camera

        (2) Aft-looking panoramic camera

        (3) Stellar camera

        (4) Index camera

    k. Physical film quality

        (1) Forward-looking panoramic camera

CORONA

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CORONA

25X1
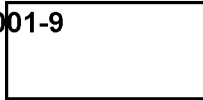
         (A) Imaged degradations

         (B) Superficial degradations

    (2) Aft-looking panoramic camera

         (A) Imaged degradations

         (B) Superficial degradations

    (3) Stellar camera

         (A) Imaged degradations

         (B) Superficial degradations

    (4) Index camera

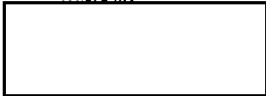   (A) Imaged degradations

         (B) Superficial degradations

l. Density

    (1) Forward-looking panoramic camera

    (2) Aft-looking panoramic camera

    (3) Stellar camera

         (A) Starboard camera

         (B) Port camera

    (4) Index camera

m. Contrast

    (1) Forward-looking panoramic camera

    (2) Aft-looking panoramic camera

    (3) Stellar camera

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CORONA

25X1

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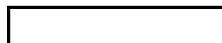**TOP SECRET**

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      (A) Starboard camera

      (B) Port camera

   (4) Index camera

  n. Process chemistry and processor

   (1) Forward-looking panoramic camera

   (2) Aft-looking panoramic camera

   (3) Stellar camera

   (4) Index camera

  o. Titled frames/processed footage/film type (film recovered, excluding camera thread-up)

   (1) Forward-looking panoramic camera

      (A) Number of titled frames

      (B) Processed footage/film type (excluding camera thread-up and preflight cycles)

      (C) Footage of thread-up and preflight cycles

      (D) Lengths of film in feet between splices and ends

      (E) Type of cut

   (2) Aft-looking panoramic camera

      (A) Number of titled frames

      (B) Processed footage/film type (excluding camera thread-up and preflight cycles)

      (C) Footage of thread-up and preflight cycles

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TOP SECRET

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CORONA

    (D) Lengths of film in feet between splices and ends

    (E) Type of cut

(3) Stellar camera

    (A) Starboard camera frames/port camera frames

    (B) Total footage/film type (excluding thread-up and preflight cycles)

    (C) Footage of thread-up and preflight cycles

(4) Index camera

    (A) Number of titled frames

    (B) Processed footage, excluding thread-up and preflight cycles

    (C) Footage of thread-up and preflight cycles

p. Remarks

q. Date and time of evaluation

9. <u>Sample Cable:</u>

REAGIN-31

A. 1116-1, CR-16
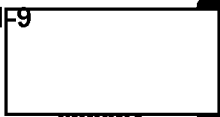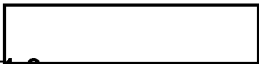
B. APPARENTLY NORMAL

25X1

25X1

25X1

CORONA

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CORONA

C. (1) NO. 348. OPERATIONAL THROUGHOUT. THE LAST FRAME, FRAME 52 PASS 79D, IS A FULL FRAME.

(2) NO. 349. OPERATIONAL THROUGHOUT, THE LAST FRAME, FRAME 49 PASS 79D, IS APPROXIMATELY ONE HALF OF A NORMAL FRAME LENGTH.

(3) (A) NO. 001. OPERATIONAL THROUGHOUT THE MISSION. FRAME 24 OF PASS 80D IS THE LAST FRAME OF THE MISSION. FRAME 1, PASS 3D IS DOUBLE EXPOSED.

(B) NO. 002. SAME AS ITEM (A).

(4) NO. 010. OPERATIONAL THROUGHOUT THE MISSION. THE LAST FRAME, FRAME 24 PASS 150D, IS AN INDEPENDENT OPERATION. FRAME 1, PASS 3 IS DOUBLE EXPOSED.

D. (1) GOOD, COMPARABLE TO MISSION 1114, MIP-95.

(2) GOOD, COMPARABLE TO THE FWD.

(3) (A) GOOD. THE STELLAR IMAGES ARE SHARP AND WELL DEFINED. THERE ARE 25 OR MORE IMAGES PER FRAME.

(B) GOOD. IMAGE SMEAR IS MINIMAL. THERE ARE 20 OR MORE IMAGES PER FRAME.

(4) GOOD. SLIGHTLY BETTER THAN MISSION 1114.

E. (1) OPERATIONAL AND IMAGED PROPERLY THROUGH-OUT THE MISSION.

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25X1

CORONA

(2) OPERATIONAL AND IMAGED PROPERLY

THROUGHOUT THE MISSION, EXCEPT ON FRAME 74,

PASS 42D.

(3) OPERATIONAL AND IMAGED PROPERLY

THROUGHOUT THE MISSION.

(4) OPERATIONAL AND IMAGED PROPERLY

THROUGHOUT THE MISSION. HOWEVER, THE DENSITY

OF DOTS IS LESS THAN OPTIMUM FOR REPRODUCTION

PURPOSES.

F. (1) (A) SHARP AND WELL DEFINED.

(B) SHARP AND WELL DEFINED.

(2) (A) ALL RAIL HOLES ARE IMAGED AT THE

BEGINNING OF THE MISSION. FIFTEEN RAIL HOLES

ARE NOT IMAGED AT THE END OF THE MISSION.

(B) ALL RAIL HOLES ARE IMAGED THROUGHOUT

THE MISSION.

G. (1) READABLE THROUGHOUT THE MISSION.

(2) THE FREQUENCY MARKS ARE NOT IMAGED FOR

A LENGTH OF 1 1/2 INCHES AT THE SUPPLY END OF

EACH FRAME OF THE MISSION.

H. (1) (A) OPERATIONAL THROUGHOUT THE MISSION.

SLIGHT VEILING IS PRESENT ON PASSES 003D TO 015D.

25X1

CORONA

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25X1

CORONA

(B) OPERATIONAL THROUGHOUT THE

MISSION, PROVIDING CONSISTENTLY GOOD IMAGERY.

(2) (A) OPERATIONAL THROUGHOUT THE MISSION,

WITH VEILING ON PASSES 003D TO 020D. NO VEILING IS

APPARENT AFTER REV 20.

(B) OPERATIONAL THROUGHOUT THE MISSION,

PROVIDING GOOD IMAGERY.

I. (1) FOG IS PRESENT ON THE FIRST, SECOND, AND

LAST FRAME OF SOME PASSES. THE DENSITY IS

COMMENSURATE WITH THE DURATION OF CAMERA

INACTIVITY.

(2) MINOR FOG IS PRESENT ON THE FIRST AND

LAST FRAMES OF MOST PASSES.

(3) NONE

(4) NONE

J. (1) NONE NOTED

(2) EDGE STATIC CAUSES FOG TRACES INTER-

MITTENTLY ALONG THE TIME TRACK EDGE OF THE

FILM. THE FOG DOES NOT EXTEND INTO THE FORMAT

AREA.

(3) NONE NOTED

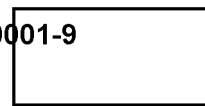(4) STATIC INDUCED FOG IS PRESENT ON THE LAST

25X1

CORONA

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25X1

TOP SECRET

25X1

TWO FEET OF FILM IN ASSOCIATION WITH FILM

SUPPLY EXHAUSTION.

K.   (1) (A) MINUS DENSITY STREAKS, UP TO 1/4 INCH

WIDE, PARALLEL TO THE MAJOR AXES OF THE FILM,

APPEAR INTERMITTENTLY THROUGHOUT THE MISSION.

     (B) MINOR RAIL SCRATCHES ARE PRESENT

THROUGHOUT.

     (2) (A) NONE

     (B) NUMEROUS FINE EMULSION SCRATCHES ARE

PRESENT AT THE TAKE-UP END OF MOST FRAMES. THE

ASSOCIATED IMAGE DEGRADATION IS MINOR.

     (3) (A) NONE

     (B) A CONTINUOUS BASE SCRATCH IS PRESENT

THROUGHOUT THE MISSION. IT IS LOCATED 0.25 INCH

FROM AND PARALLEL TO THE CAMERA NUMBER EDGE.

     (4) (A) SEVERAL MINUS DENSITY SPOTS APPEAR ON

EVERY FRAME OF THE MISSION. THE DOTS APPEAR TO

BE THE RESULT OF DIRT ON THE RESEAU PLATE.

     (B) NONE

L.   (1) HEAVY TO MOSTLY MEDIUM

     (2) MEDIUM

25X1

25X1

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(3) (A) ADEQUATE TO DETERMINE THE PRESENCE

OF STELLAR IMAGES. ABOUT NORMAL DENSITY FOR

THE SYSTEM.

    (B) SAME AS ITEM (A)

(4) MEDIUM TO THIN

M. (1) MEDIUM TO LOW

    (2) MEDIUM TO HIGH

    (3) (A) ADEQUATE TO DETERMINE THE PRESENCE

OF STELLAR IMAGES.

    (B) ADEQUATE TO DETERMINE THE PRESENCE

OF STELLAR IMAGES.

    (4) MEDIUM TO THIN

N. (1) DUAL GAMMA CHEMISTRY IN THE YARDLEIGH 5.

    (2) DUAL GAMMA CHEMISTRY IN THE YARDLEIGH 5.

    (3) SINGLE STAGE DEVELOPMENT IN THE TRENTON.

    (4) SINGLE STAGE DEVELOPMENT IN THE DRAPE.

O. (1) (A) 2953 CYCLES

    (B) 8067 FEET/SO-3404

    (C) 380 FEET

    (D) BEGIN 57/3600/3400/1390 END

    (E) FLIGHT
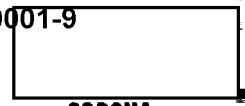
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25X1

    (2) (A) 2950 CYCLES

          (B) 7940 FEET/SO-3404

          (C) 370 FEET

          (D) BEGIN 56/3700/3300/1254 END

          (E) FLIGHT

    (3) (A) 1913/1907

          (B) 225 FEET/SO-3404

          (C) 25 FEET

    (4) (A) 1922
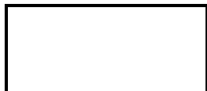
          (B) 815 FEET/SO 3404

          (C) 35 FEET

P. NONE

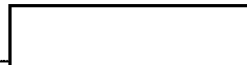Q. 24 MARCH 1972, 0900 EDT

             END OF MESSAGE

25X1

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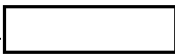Approved For Release 2005/04/21 : CIA-RDP78B04767A000500050001-9

TOP SECRET

25X1
NRO

PHOTOGRAPHIC EVALUATION & PROCESSING TEAM

(REAGIN-33)

1. Purpose: To provide the processing site with the names and clearances of individuals assigned from [   ] for preliminary photographic evaluation and processing.

25X1

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Priority

      Info: Priority

5. Submitted For: Each recovery

6. Report Due Time: Immediately following recovery

7. Submitted To: [   ]

8. Contents Format:

   a. Mission number

   b. Scheduled arrival date at the processing site

   c. Security clearances of personnel

   d. Names of individuals

9. Sample Cable:
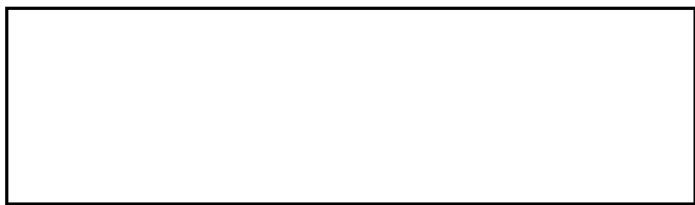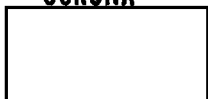
[   ]

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CORONA

25X1

REAGIN-33

A. 1112-1

B. 27 NOV 70

C. ALL CLEARED FOR PRODUCT ACCESS

25X1   D. R. [   ] GS-11, [   ] TEAM LEADER

            A. [   ] CAPT, USAF

               END OF MESSAGE

25X1

CORONA

25X1

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25X1

PAYLOAD AND VEHICLE STATUS REPORT

(REAGIN-34)

25X1

1. <u>Purpose</u>: To provide [   ] with current status of film supply and consumption rate plus brief status report on vehicle operation.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: Duration of mission

6. <u>Report Due Time</u>: First report will be submitted within four hours after launch. Subsequent reports will be submitted at least twice daily.

7. <u>Submitted To</u>: [   ]

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Rev number and station acquiring data

   c. Film status (by SRV)

   (1) Forward-looking camera (cycles used and cycles remaining)

   (2) Aft-looking camera (cycles used and cycles remaining)

25X1

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25X1

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 (3) DISIC (cycles used and cycles remaining)

  (a) Slave cycles remaining

  (b) Independent cycles remaining

 d. Vehicle/payload status

  (1) Perigee height

  (2) Geodetic latitude of perigee

  (3) Vehicle health

  (4) Payload health

  (5) DMU firing results, when applicable

 e. Remarks

9. <u>Sample Cable</u>:

25X1

REAGIN-34

 A. 1116-1

 B. REV 97, COOK

 C. (1) 2379 USED, 621 MIN TO 721 MAX REMAIN

  (2) 2364 USED, 636 MIN TO 736 MAX REMAIN

  (3) 1470 DISIC USED, 530 MIN to 630 MAX REMAIN

   (A) APPROX SLAVE REMAINING: 110 MIN TO 135

 MAX

25X1
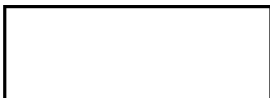
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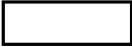
25X1

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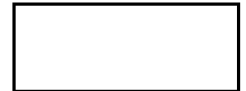
CORONA

(B) APPROX INDEPENDENT REMAINING: 420

MIN TO 495 MAX

D. (1) 99.3

    (2) 262.6

    (3) VEHICLE NORMAL

    (4) PAYLOAD NORMAL

    (5) TRACKING DATA FROM [ ] REV 98 INDICATES   25X1

NOMINAL BURN DMU NR 2, REV 97.

E. ABOVE FIGURES INCLUDE 12 CYCLE REV 96 COOK

ENGINEERING COVERING APPROX 234.5 TO 233.9

END OF MESSAGE

25X1

CORONA

25X1

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CORONA

MISSION STATUS REPORT

(REAGIN-35)

1. <u>Purpose</u>: To keep interested agencies informed of the immediate capability to launch vehicles assigned to this project.

2. <u>Point of Origin</u>:

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

   Info: Routine

5. <u>Submitted For</u>: Each mission at estimated launch minus 5 days

6. <u>Report Due Time</u>: First report will be submitted at launch minus 5 days. Subsequent reports will be made when a change in date or time of launch occurs.

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

   a. Mission number

   b. Estimated date and time (Z) of launch

   c. Reason for any change in date or time of launch from previously submitted estimate

   d. Remarks

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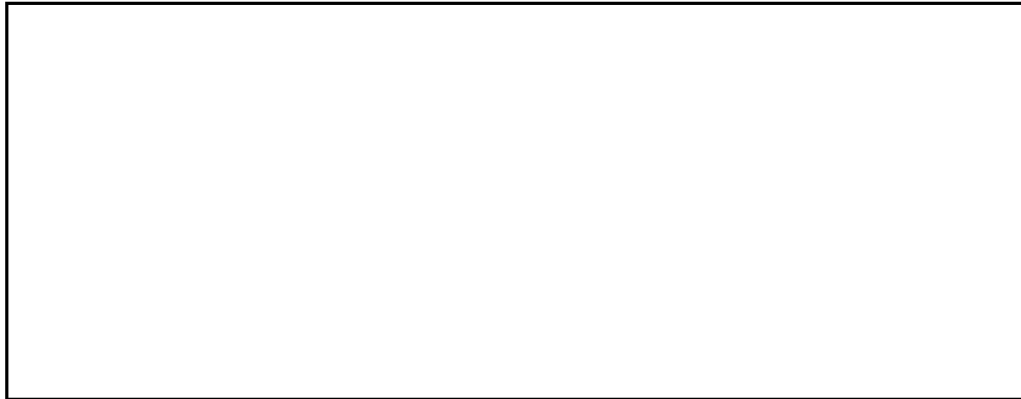**TOP SECRET**

25X1

CORONA

9. Sample Cable:

25X1

REAGIN-35

A. 1112

B. 18/2000Z

C. NO CHANGE

D. PAYLOAD FINAL PREFLIGHT CHECKOUT SUCCESSFULLY

COMPLETED.

END OF MESSAGE

25X1

CORONA

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CORONA

25X1

CAPSULE MOVEMENT HAWAII

(REAGIN-39)

1. **Purpose:** To inform interested parties of the movement of

the recovered capsule from Hickam to Eastern U.S.

25X1

2. **Point of Origin:**

3. **Classification:** Top Secret

4. **Precedence:** Action: Immediate

                Info: Priority

5. **Submitted For:** Each recovered capsule

6. **Report Due Time:** Immediately upon departure of capsule

from Hickam

7. **Submitted To:**

25X1

8. **Contents Format:**

   a. Mission number

   b. Actual time (Z) of capsule arrival at Hickam

   c. Actual time (Z) of capsule departure from Hickam

   d. Estimated time (Z) of arrival and destination in Eastern

U.S.

   e. Alternate destination in Eastern U.S.

25X1

CORONA

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CORONA

25X1

  f. Condition of capsule

  g. Name of courier having responsibility for capsule

  h. Aircraft commander, aircraft type, and aircraft tail number

    NOTE: Whenever East Coast ETA varies by one hour or more from the time provided by this message (REAGIN-39), a REAGIN-7 will be sent.

  9. <u>Sample Cable</u>:

25X1

    REAGIN-39

    A. 1116-1

    B. 28/0010Z

    C. 28/0105Z

    D. 28/1000Z, MCGUIRE AFB, NEW JERSEY

    E. WESTOVER AFB, MASS.

    F. UNDAMAGED

25X1   G.

    H.

    END OF MESSAGE

25X1

CORONA

25X1

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25X1

FILM ARRIVAL MESSAGE

(REAGIN-40)

1. <u>Purpose</u>: To inform interested agencies of the arrival of

25X1

the film at [   ] whenever defilming is done at [   ] REAGIN-23 is

not sent when this message is sent.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                Info: Routine

5. <u>Submitted For</u>: Each delivery of film

6. <u>Report Due Time</u>: Immediately upon arrival of film at [   ]

25X1

7. <u>Submitted To</u>: [   ]

25X1

8. <u>Contents Format</u>:

    a. Mission number

    b. Actual time (Z) of arrival at [   ]

25X1

25X1

    c. Estimated time [   ] expects to begin work on film

    d. Remarks

9. <u>Sample Cable</u>:

[   ]

25X1

25X1

[   ]

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CORONA

25X1

25X1

REAGIN-40

A. 1114-2

B. 01, 1240Z

C. 01, 1930Z

25X1   D. DEPARTS FOR WEST COAST 02/1000Z

25X1   EPARTS FOR   01/2200Z

END OF MESSAGE

25X1

CORONA

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25X1

RECOMMENDED CORN TARGET LOCATIONS

(REAGIN-41)

1. <u>Purpose</u>:   To coordinate CORN target locations with other

domestic requirements.

2. <u>Point of Origin</u>:

25X1

3. <u>Classification</u>:   Top Secret

4. <u>Precedence</u>:   Action: Priority

5. <u>Submitted For</u>:   Each mission.   Locations selected will be

listed in the REAGIN-45, LONG-RANGE CORN ALERT MESSAGE.

6. <u>Report Due Time</u>:   Fifteen (15) days prior to launch

7. <u>Submitted To</u>:   Action:

25X1

8. <u>Contents Format</u>:

   a.   Mission number

   b.   General central area where CORN targets are

desired, using USGS base names and TOPOCOM code letters, 15-

minute quadrangle numbers (1 thru 32), and maximum radius in

nautical miles.

   c.   Remarks

9. <u>Sample Cable</u>:

   BT

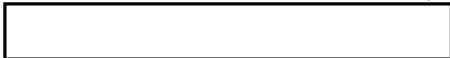   TOP SECRET 3119292 SEPT 75 CITE [   ] 776

25X1

   PRIORITY [   ]

25X1
25X1
25X1

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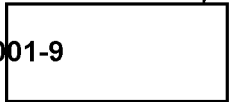
TOP SECRET

25X1

CORONA
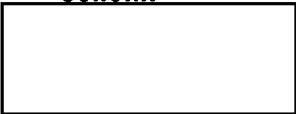
25X1

REAGIN 41

A. 1115

25X1

C. NONE

TOP SECRET

BT

25X1

25X1

CORONA

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CORONA

CORN CANCELLATION MESSAGE

(REAGIN-42)

1. Purpose: To inform [   ]

of those CORN targets listed in REAGIN-44 that will not be used.

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Immediate

    Info: Priority

5. Submitted For: Each CORN target listed in the REAGIN-44

that will be denied because of forecast weather conditions or other

factors.

6. Report Due Time: Not later than 24 hours prior to access

of the CORN targets to be denied.

7. Submitted To: [   ]

8. Contents Format:

    a. Mission number

    b. Location name, as listed in the REAGIN-44, of CORN

target to be denied.

    c. Remarks

25X1

25X1

25X1

25X1

CORONA

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CORONA

9. <u>Sample Cable:</u>

BT

TOP SECRET 012200Z SEP 75 CITE

IMMEDIATE

REAGIN-42
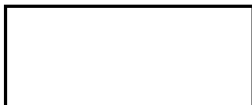
A. 1115

C. NONE

TOP SECRET

BT

25X1

25X1

25X1

25X1

25X1

25X1

CORONA

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CORONA

PRIORITY READOUT TARGET LIST

(REAGIN-43)

25X1   1. Purpose: To provide [   ] with COMIREX target data to

25X1 be used in [   ] ns

25X1   2. Point of Origin: [   ]

      3. Transmission of Message: UNIVAC 9300/DLT

      4. Classification: Top Secret

      5. Precedence: Action: Priority

      6. Submitted For: Each mission

      7. Report Due Time: Normally one day prior to launch

25X1   8. Submitted To: Action: [   ]

      9. Contents Format:

        a. Mission number

        b. Priority readout target list

          (1) Priority

          (2) Diameter

          (3) Altitude

          (4) Mode

          (5) Search diameter

          (6) COMIREX number

          (7) Latitude

          (8) Longitude

25X1

CORONA

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25X1

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CORONA

25X1

25X1

25X1

25X1

25X1

10. Sample Cable:

TO: ACTION: PRIORITY:

CITE:

REAGIN-43

A. 11;5

B. 1

C. 7

D. 10

E. 1

F. 100

G.

H. 46 59 17N

I. 132 22 00E

END OF MESSAGE

NOTE: Ordinarily the data format of the above information will

be horizontal. The vertical data format above is used as a

convenience in preparing this manual.

CORONA

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25X1

CORONA

CORN ALERT MESSAGE

(REAGIN-44)

1. <u>Purpose</u>: To confirm CORN alert coverage areas

25X1

2. <u>Point of Origin</u>:

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: As required for each day on orbit. This message will use REAGIN-45 as reference in paragraph 8b, below.

6. <u>Report Due Time</u>: Not later than 48 hours prior to the access of the CORN target.

7. <u>Submitted To</u>:

25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. Line item number as listed in REAGIN-45, paragraph 8b(1).

   c. Actual Zulu date/time target must be displayed

   d. Remarks, special instructions/requirements, or other changes.

9. <u>Sample Cable</u>:

   TO: ACTION: IMMEDIATE:

25X1

25X1

CORONA

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25X1

25X1

INFO: PRIORITY:

25X1   CITE:

REAGIN-44

A. 1112

B. 4

C. 20 NOV / 2048 Z

D. NONE

END OF MESSAGE

25X1

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25X1

25X1

LONG-RANGE CORN ALERT MESSAGE

(REAGIN-45)

25X1

1. <u>Purpose</u>: To inform [   ] of long-range plan for CORN target coverage areas.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

    Info: Priority

5. <u>Submitted For</u>: Each mission. Line item numbers as listed in paragraph 8b(1) below will be referenced in the REAGIN-44 message.

6. <u>Report Due Time</u>: Ten days prior to launch

7. <u>Submitted To</u>: [   ]

8. <u>Contents Format</u>:

    a. Mission number

    b. Horizontal description of CORN requirements for the entire mission:

        (1) Line item number assigned each target for quick reference for entire mission. First target requested will be line item number one with subsequent targets numbered consecutively.

        (2) Orbit revolution number corresponding to each CORN display.
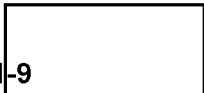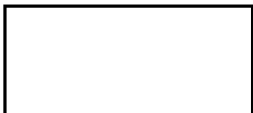
25X1

25X1

CORONA

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25X1

(3) Zulu date/time CORN target must be displayed.

(4) Coordinate location by latitude/longitude in degrees

and minutes.

(5) Geographical location (place name).

c. Type of CORN targets required in order of priority.

d. Flight azimuth(s) over targets.

e. Ground track checkpoints by revolution, latitude/longitude

by degrees and minutes of start and end points, and location name.

f. Remarks: Include special instructions/requirements.

9. Sample Cable:

REAGIN-45

A. 1112

B. FOLLOWING ARE PLANNED CORN TARGETS

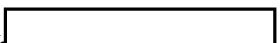| (1) LINE ITEM	(2) REV	(3) DATE/ TIME	(4) COORDINATES	(5) LOCATION
1	16	19/2111Z		
2	17	19/2230Z		
3	17	19/2233Z		
4	32	20/2052Z		

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(REAGIN-45)

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C. USE THE FOLLOWING TARGETS:

    (1) USE 51/51 T BAR, 100 FT EDGE AND 5 OR 8 STEP

GRAY SCALE FOR ALL LINE ITEMS EXCEPT LINE ITEM 2.

    (2) USE 51/51 T BAR, 100 FT EDGE, TRICOLOR

PATCH AND POINT SOURCE FOR LINE ITEM 2.

D. FLIGHT AZIMUTH IS 172 DEGREES

E. GROUND CHECKPOINTS

REV	COORDINATES	COORDINATES
15	4500N/8229W	
17	4000N/12304W	

F. USE SKY CAMERA AT ALL MOBILE SITES.

END OF MESSAGE

CORONA

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FAILURE TO ACHIEVE ORBIT REPORT

(REAGIN-46)

1. <u>Purpose</u>: To provide interested agencies with general
information regarding the failure of a launched satellite to achieve

25X1 orbit, and to provide [   ] with the predicted impact coordinates on
which to base a weather forecast for possible recovery operations.

25X1 2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: As required

6. <u>Report Due Time</u>: This report will be transmitted as soon as
possible and may be submitted in supplements, if required. However,
the initial report for a failed orbit will be submitted NLT 2 hours after
launch.

7. <u>Submitted To</u>: [   ]   25X1

8. <u>Contents Format</u>:

   a. Mission number

   b. A detailed narrative report explaining the reason the
satellite did not attain orbit, based on available information.

   c. Coordinates of predicted impact point and approximate time.

25X1

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25X1

CORONA

25X1

d. Probability of payload surviving re-entry

e. Approximate time additional reports will be submitted.

9. <u>Sample Cable:</u>

25X1

REAGIN-46

A. 1118

B. VEHICLE ATTITUDE ABNORMAL ON ASCENT, FIRST

NOTED 30 SEC AFTER LIFTOFF. HORIZON SENSORS

UNABLE TO DETECT AND CORRECT ROLL CONDITION

THROUGH AUTO-PILOT IN SUFFICIENT TIME TO PREVENT

FAILURE.

C.   40 DEGREES 20 MINUTES SOUTH

    165 DEGREES 30 MINUTES WEST

D. SEARCH UNDERWAY; HOWEVER, PROBABILITY HIGH

THAT THE PAYLOAD SANK IN APPROXIMATELY 800 FEET

OF WATER.

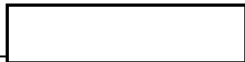E. 2345Z WHEN RESULTS OF SEARCH SHOULD BE KNOWN.

END OF MESSAGE

25X1

CORONA

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25X1

CORONA

CAMERA DATA

(REAGIN-47)

1. <u>Purpose</u>: To provide [   ] with mission

technical data for each camera programmed for flight.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

Info: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: NLT 24 hours after launch

8. <u>Submitted To</u>: Action: [   ]

Info: [   ]

25X1
25X1

9. <u>Contents Format</u>: This is self-explanatory in sample

cable, paragraph 10.

10. <u>Sample Cable</u>:
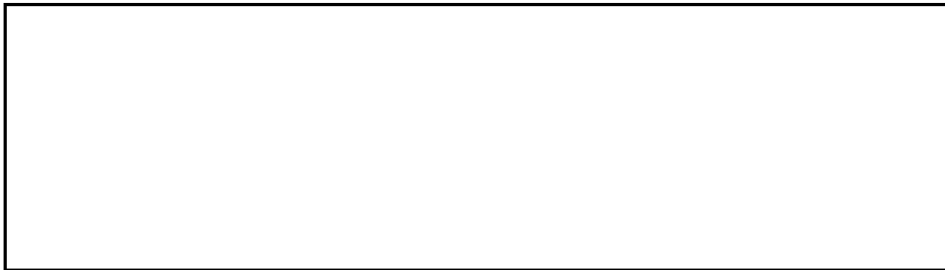
25X1

REAGIN-47

25X1

CORONA

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1.	GENERAL FLIGHT DATA	
1.1	MISSION NO	.1116
1.2	VEHICLE NO	.1692
1.3	SYSTEM NO	.CR-16
1.4	FWD-LOOKING CAMERA SERIAL NO	.325
1.5	AFT-LOOKING CAMERA SERIAL NO	.324
1.6	DISIC CAMERA SERIAL NO	.15
2.	LENS DATA	
2.1	FWD-LOOKING CAMERA (MAIN LENS)	.305
2.1.1	LENS SERIAL NO	.1-181
2.1.2	NOMINAL SLIT WIDTH (INCHES)	.
2.1.2.1.	POSITION 1	.0.215
2.1.2.2	POSITION 2	.0.270
2.1.2.3	POSITION 3	.0.340
2.1.2.4	POSITION 4	.0.340
2.1.2.5	FAILSAFE	.0.340
2.1.3	OPTICS FILTER TYPE	.
2.1.3.1	PRIMARY	.W-25 (GELATIN)
2.1.3.2	ALTERNATE	.SF09 POLARIZER PLUS 20 (GLASS)
2.1.4	E.O. FOCAL LENGTH (INCHES)	.24.000
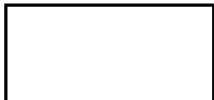
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2. 1. 5	RESOLUTION (LINES/MILLIMETER)	.
2. 1. 5. 1	STATIC	.
2. 1. 5. 1. 1	FILTER	. W-21
2. 1. 5. 1. 2	HIGH CONTRAST	. 256
2. 1. 5. 1. 3	LOW CONTRAST	. 156
2. 1. 5. 2	DYNAMIC	.
2. 1. 5. 2. 1	☐ POST VIBRATION	.
2. 1. 5. 2. 1. 1	FILTER	. 2-21 GELATIN
2. 1. 5. 2. 1. 2	HIGH CONTRAST	. 213 AT 0. 000
2. 1. 5. 2. 1. 3	LOW CONTRAST	. 139 AT 0. 000
2. 1. 5. 2. 2	A/P TEST	.
2. 1. 5. 2. 2. 1	FILTER	. W-21 GELATIN
2. 1. 5. 2. 2. 2	HIGH CONTRAST	. 205 AT -0. 002
2. 1. 5. 2. 2. 3	LOW CONTRAST	. 137 AT -0. 002
2. 1. 6	DISTORTION/PINCUSHION (MM)	.
	ANGLE OFF AXIS (DEG)	.
2. 1. 6. 1	3	. 0. 000
2. 1. 6. 2	2	. 0. 000
2. 1. 6. 3	1	. 0. 000
2. 1. 6. 4	0	. 0. 000
2. 1. 6. 5	359	. 0. 000
2. 1. 6. 6	358	. 0. 001

25X1

25X1

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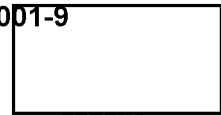
2. 1. 6. 7	357	. 0. 001
2. 2	AFT-LOOKING CAMERA (MAIN LENS)	. 304
2. 2. 1	LENS SERIAL NO	. 1-165
2. 2. 2	OPTICS SLIT WIDTH (INCHES)	.
2. 2. 2. 1	POSITION 1	. 0. 134
2. 2. 2. 2	POSITION 2	. 0. 170
2. 2. 2. 3	POSITION 3	. 0. 215
2. 2. 2. 4	POSITION 4	. 0. 270
2. 2. 2. 5	FAILSAFE	. 0. 250
2. 2. 3	OPTICS FILTER TYPE	.
2. 2. 3. 1	PRIMARY	. W-21 GELATIN
2. 2. 3. 2	ALTERNATE	. SF05 GLASS
2. 2. 4	E. O. FOCAL LENGTH (INCHES)	. 24. 001
2. 2. 5	RESOLUTION (LINES/MM)	.
2. 2. 5. 1	STATIC	.
2. 2. 5. 1. 1	FILTER	. W-21 GELATIN
2. 2. 5. 1. 2	HIGH CONTRAST	. 248
2. 2. 5. 1. 3	LOW CONTRAST	. 149
2. 2. 5. 2	DYNAMIC (LINES/MM)	.
2. 2. 5. 2. 1	POST VIBRATION	.

25X1

25X1

TOP SECRET

CONTROL NO
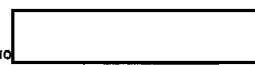
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CORONA

2.2.5.2.1.1	FILTER	.W-21 GELATIN
2.2.5.2.1.2	HIGH CONTRAST	.198 AT 0.000
2.2.5.2.1.3	LOW CONTRAST	.128 AT 0.000
2.2.5.2.2	A/P TEST	.
2.2.5.2.2.1	FILTER	.W-21 GELATIN
2.2.5.2.2.2	HIGH CONTRAST	.185 AT -0.002
2.2.5.2.2.3	LOW CONTRAST	.122 AT -0.002
2.2.6	DISTORTION/PINCUSHION (MM)	.
	ANGLE OFF AXIS (DEG)	.
2.2.6.1	3	.0.002
2.2.6.2	2	.0.001
2.2.6.3	1	.0.000
2.2.6.4	0	.0.000
2.2.6.5	359	.0.000
2.2.6.6	358	.0.000
2.2.6.7	357	.0.001
2.3	HORIZON OPTICS	.
2.3.1	FWD-LOOKING CAMERA	.
2.3.1.1	TAKE-UP (STARBOARD)	.
2.3.1.1.1	LENS SERIAL NO	.E23793
2.3.1.1.2	EXPOSURE TIME (SEC)	.1/100
2.3.1.1.3	APERTURE	.F/8.0

25X1

CORONA

25X1
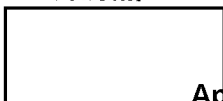
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CORONA

2.3.1.1.4	FILTER TYPE	.W-25
2.3.1.1.5	OPER FOCAL LENGTH (MM)	.55
2.3.1.1.6	RADIAL DISTORTION (MM)	.
2.3.1.1.6.1	10 DEG OFF AXIS	.0.02
2.3.1.1.6.2	20 DEG OFF AXIS	.0.05
2.3.1.1.7	TANGENTIAL DISTORTION	.0.018
2.3.1.1.8	RESOLUTION (LINES/MM)	.

ANGLE OFF AXIS (DEG) .0   5   10   15   20   25   30

2.3.1.1.8.1	(RADIAL)	. 187 208 206 181 62 150 72
2.3.1.1.8.2	(TANGENTIAL)	. 187 207 181 155 130 121 62
2.3.1.2	SUPPLY (PORT)	.
2.3.1.2.1	LENS SERIAL NO	.E23774
2.3.1.2.2	EXPOSURE TIME (SEC)	.1/100
2.3.1.2.3	APERTURE	.F/6.3
2.3.1.2.4	FILTER TYPE	.W-25
2.3.1.2.5	OPER FOCAL LENGTH (MM)	.55
2.3.1.2.6	RADIAL DISTORTION (MM)	.
2.3.1.2.6.1	10 DEG OFF AXIS	.0.02
2.3.1.2.6.2	20 DEG OFF AXIS	.0.06
2.3.1.2.7	TANGENTIAL DISTORTION	.0.01
2.3.1.2.8	RESOLUTION (LINES/MM)	.

ANGLE OFF AXIS (DEG)   .0 5 10 15 20 25 30

CORONA

TOP SECRET

TOP SECRET

|									
2.3.1.2.8.1	(RADIAL)	.166	186	184	143	169		81	
2.3.1.2.8.2	(TANGENTIAL)	.148	164	161	123	103	96	62	
2.3.2	AFT-LOOKING CAMERA	.							
2.3.2.1	TAKE-UP (PORT)	.							
2.3.2.1.1	LENS SERIAL NO	.E23799							
2.3.2.1.2	EXPOSURE TIME (SEC)	.1/100							
2.3.2.1.3	APERTURE	.F/6.3							
2.3.2.1.4	FILTER TYPE	.W-25							
2.3.2.1.5	OPER FOCAL LENGTH (MM)	.55							
2.3.2.1.6	RADIAL DISTORTION (MM)	.							
2.3.2.1.6.1	10 DEG OFF AXIS	.0.01							
2.3.2.1.6.2	20 DEG OFF AXIS	.0.03							
2.3.2.1.7	TANGENTIAL DISTORTION	.0.0288							
2.3.2.1.8	RESOLUTION (LINES/MM)	.							
	ANGLE OFF AXIS (DEG)	.0	5	10	15	20	25	30	
2.3.2.1.8.1	(RADIAL)	.187	186	184	160	139	139	43	
2.3.2.1.8.2	(TANGENTIAL)	.166	185	161	123	130	96	52	
2.3.2.2	SUPPLY (STARBOARD)	.							
2.3.2.2.1	LENS SERIAL NO	.E23785							
2.3.2.2.2	EXPOSURE TIME (SEC)	.1/100							
2.3.2.2.3	APERTURE	.F/8.0							
2.3.2.2.4	FILTER TYPE	.W-25							
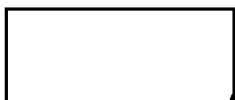
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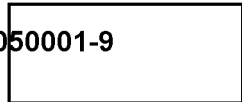
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CORONA

2.3.2.2.5	OPER FOCAL LENGTH (MM)	.55
2.3.2.2.6	RADIAL DISTORTION (MM)	.
2.3.2.2.6.1	10 DEG OFF AXIS	.0.02
2.3.2.2.6.2	20 DEG OFF AXIS	.0.05
2.3.2.2.7	TANGENTIAL DISTORTION	.0.03
2.3.2.2.8	RESOLUTION (LINES/MM)	.

ANGLE OFF AXIS (DEG)   .0   5   10   15   20   25   30

2.3.2.2.8.1	(RADIAL)	.209 208 184 181 110 150 57
2.3.2.2.8.2	(TANGENTIAL)	.187 185 161 155 130 96 62
2.4	DISIC CAMERA	.
2.4.1	PORT STELLAR CAMERA	.
2.4.1.1	LENS SERIAL NO	.7P
2.4.1.2	RESEAU SERIAL NO	.7P
2.4.1.3	APERTURE	.F/2.8
2.4.1.4	EXPOSURE TIME (SEC)	.1.5
2.4.1.5	NOMINAL FOCAL LENGTH (IN)	.3.0
2.4.1.6	FILTER	.NONE
2.4.2	STARBOARD STELLAR CAMERA	.
2.4.2.1	LENS SERIAL NO	.14
2.4.2.2	RESEAU SERIAL NO	.14
2.4.2.3	APERTURE	.F/2.8
2.4.2.4	EXPOSURE TIME (SEC)	.1.5

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2.4.2.5	NOMINAL FOCAL LENGTH (IN)	. 3. 0
2.4.2.6	FILTER	. NONE
2.4.3	TERRAIN CAMERA	.
2.4.3.1	LENS SERIAL NO	. 101
2.4.3.2	RESEAU SERIAL NO	. 101
2.4.3.3	FILTER TYPE	. W-12
2.4.3.4	APERTURE	. F/4.5
2.4.3.5	EXPOSURE TIME (SEC)	. 1/500
2.4.3.6	NOMINAL FOCAL LENGTH (IN)	. 3. 0
2.4.3.7	RESOLUTION (HI CONTRAST L/MM)	.

	ANGLE OFF AXIS (DEG)	. 0 7. 5 15
2.4.3.7.1	RADIAL	. 144 121 140
2.4.3.7.2	TANGENTIAL	. 114 114 89
2.4.3.7.3	FILM TYPE	. 3404
2.4.3.7.4	FILTER	. W-12
3.	FILM TYPES	
3.1	FWD-LOOKING CAMERA	.
3.1.1	SPLIT LOAD	. YES
3.1.2	FILM TYPE	. 3404/(SO-230)
3.1.3	LENGTH (FT)	. 16,200 + 100
3.1.4	SPLICES	. 7 MYLAR
3.1.5	LENGTH BETWEEN SPLICES (FT)	. 2000-630-5815-5855-(2000)

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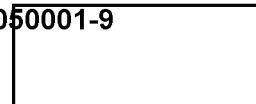
CORONA

3.1.6	EMULSION DATA	. 3404-401-1-11-7
		(SO-230-11-1-11-7)
3.1.7	PAYLOAD WEIGHT (LBS)	. 88. 3-80. 8
3.1.8	SPOOL NO	. 168T
3.1.9	BOX SERIAL NO	. 29
3.2	AFT-LOOKING CAMERA	.
3.2.1	SPLIT LOAD	. YES
3.2.2	FILM TYPE	. 3404
3.2.3	LENGTH (FT)	. 16, 300
3.2.4	SPLICES	. 6 PERMACEL
3.2.5	LENGTH BETWEEN SPLICES (FT)	. 3300-4175-2322-4003-(2500)
3.2.6	EMULSION DATA	. 3404-405-4-1-3-11-7
3.2.7	PAYLOAD WEIGHT (LBS)	. 87. 5-80. 3
3.2.8	SPOOL NO	. 215B
3.2.9	BOX SERIAL NO	. 30
3.3	DISIC CAMERA	.
3.3.1	STELLAR CAMERA	.
3.3.1.1	SPLIT LOAD	. NO
3.3.1.2	FILM TYPE	. 3401
3.3.1.3	LENGTH (FT)	. 2000

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CORONA

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25X1

(REAGIN-47)

TOP SECRET

3.3.1.4	SPLICES	. NONE
3.3.1.5	LENGTH BETWEEN SPLICES (FT)	.
3.3.1.6	EMULSION DATA	. 3401-238-5
3.3.1.7	PAYLOAD WEIGHT (LBS)	. 7. 1-1. 7
3.3.2	TERRAIN CAMERA	.
3.3.2.1	SPLIT LOAD	. NO
3.3.2.2	FILM LOAD	. 3400
3.3.2.3	LENGTH (FT)	. 2000
3.3.2.4	SPLICES	. NONE
3.3.2.5	LENGTH BETWEEN SPLICES (FT)	.
3.3.2.6	EMULSION DATA	. 156-8-7-7
3.3.2.7	TOTAL FILM WEIGHT (LBS)	. 20. 1-2. 4

END OF MESSAGE

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25X1

CORONA

CAMERA-OFF FRAME NUMBER MESSAGE

(REAGIN-48)

1. **Purpose:** To provide interested parties with last titled frame number of each camera operation and to list any processing abnormalities which may affect the number of frames in a mission.

2. **Point of Origin:**

25X1

3. **Classification:** Top Secret

4. **Precedence:** Action: Immediate

     Info: Routine

5. **Submitted For:** Each capsule filmload

6. **Report Due Time:** As soon as possible after arrival of film at processing site

7. **Submitted To:**

25X1

8. **Contents Format:**

    a. Mission number.

    b. List, pass-by-pass, in order of exposure sequence, the last titled frame number in each camera operation of the forward pan camera.

    c. List same as b. above for aft pan camera.
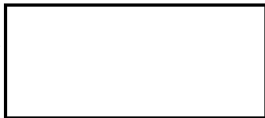
    d. The last numbered frame of the stellar exposures.

25X1

CORONA

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TOP SECRET

CORONA

25X1

e. The last numbered frame of the index exposures.

f. List any frames which were edited from the film of the forward pan camera.

g. List same as f. above for the aft pan camera.

h. List same as f. above for stellar and/or index cameras.

i. List any pertinent remarks.

9. Sample Cable:

REAGIN-48

A. 1116-1

B. FWD:

01D;	36;	10D;	100
02D;	35;	14D;	110
03D;	10	20D;	10, 80
06D;	21, 42, 116	31D;	21, 31, ·61

C. AFT:

01D;	36	10D;	98
02D;	35	14D;	109
03D;	10	20D;	10, 79
06D;	21, 41, 115	31D;	21, 30, 60

D. 321

25X1

CORONA

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25X1

TOP SECRET

E. 325

F. PASS 47-D WHAT WOULD HAVE BEEN 10.

G. PASS 47-D WHAT WOULD HAVE BEEN 16.

H. WHAT WOULD HAVE BEEN 261 AND 262 ON BOTH S

AND I.

I. THE ABOVE FRAMES HAVE BEEN EDITED FROM ORIG

NEGS AND REMAINDER OF FILM HAS BEEN TITLED AS IF

THESE HAD NEVER EXISTED. THE LAST FEW FRAMES OF

PASS 50D FWD AND AFT ARE CONTAINED IN SECOND

CAPSULE SO FINAL FIGURE FOR TOTAL FRAMES IN THIS

PASS IS INCOMPLETE AT THIS TIME. IT WILL BE

FURNISHED WITH BREAKDOWN FOR SECOND CAPSULE,

ALONG WITH THE FRAMES (IF ANY) EXPOSED DURING

CUT AND WRAP OPERATION.

END OF MESSAGE

25X1

25X1

Paragraph I
Sentence 1
This is not correct
the remainder of the frames
are lettered as though the
edited frames had remained
in the roll.

25X1

25X1

CORONA

CAMERA FRAME NUMBERS

(REAGIN-49)

25X1   1. Purpose: To provide ☐ with data necessary for

reproduction and handling of film.

25X1   2. Point of Origin: ☐

3. Classification: Top Secret

4. Precedence: Action: ~~Priority~~ *IMMEDIATE*

Info: Priority

5. Submitted For: Each recovery

6. Report Due Time: As soon as possible after film is

processed at processing site

25X1   7. Submitted To: ☐

8. Contents Format:

a. Mission number, TCS number

b. Forward camera breakdown

c. Aft camera breakdown

d. Engineering passes
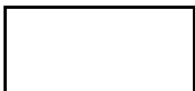
e. Special operations control passes

f. Nonreproduction passes (☐

g. Special printing orders

25X1

25X1

CORONA
☐

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25X1

TOP SECRET

CORONA

25X1

9. Sample Cable:

25X1

REAGIN-49

25X1

A. 1116-1,

B. PASS PARTS FRAMES CONTROL NOS FLIGHT DATE

D-81 2 OF 2 006-011 701055 5 SEP 71

C. PASS PARTS FRAMES CONTROL NOS FLIGHT DATE

D-93 1 001-034 701056 6 SEP 71

D. ONE PART EACH

FWD AFT

A88E A88E

E. FOLLOWING ARE CORONA/ [   ] PASSES.

FORWARD AND AFT ARE IDENTICAL. ONE PART EACH.

A88E

D94

F. ORIGINAL NEGATIVE

FWD, D151, PART 2 OF 2, FRAMES 043, 044

G. FOLLOWING PARTS REQUIRE SPECIAL PRINTING

IN ADDITION TO NORMAL PRINTING:

FWD AFT PART

D89 D89 1 OF 2

END OF MESSAGE

25X1

CORONA

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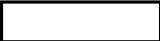DOD DIRECTIVE 5200 10 DOES NOT APPLY

CORN RECAP SUMMARY

(REAGIN-51)

1. Purpose: To provide [   ] with list of CORN

targets that were photographed on a mission.

25X1

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Immediate

Info: Priority

5. Submitted For: Each capsule

6. Report Due Time: Not later than 24 hours after each

recovery

7. Submitted To:

25X1

8. Contents Format:

a. Mission number

b. Target name

(1) Zulu date/time span when the target was on display

(2) USGS map designation on which the target can be

located, i.e., map name, number, and scale

(3) Exact coordinates of target
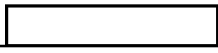
(4) Description of target panels

(5) Reason for deviation from requested display, if any

25X1

CORONA

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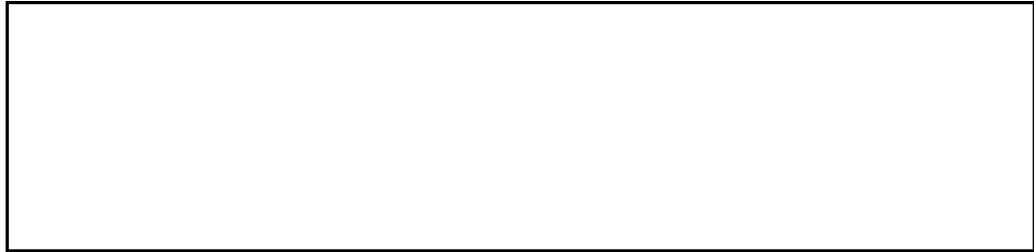
25X1

TOP SECRET

CORONA

      (6) Description of checkpoints in area that could aid

in locating the target

      (7) Weather conditions

    c., d., etc. - Target name

9.   Sample Cable:

REAGIN-51

A. 1117-1

CORONA

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25X1

CORONA

INCLINATION ANGLE PLANNING DATA

(REAGIN-53)

25X1

1. <u>Purpose</u>: To advise [   ] of the availability of inclination angles for a mission.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                  Info: Priority

5. <u>Submitted For</u>: Each mission for which multiple inclination angles are available.

6. <u>Report Due Time</u>: Not later than 30 days prior to launch

7. <u>Submitted To</u>: [   ]

25X1

8. <u>Contents Format</u>:

    a. Mission number

    b. Launch date (Z)

25X1

25X1

CORONA

[   ]

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CORONA

25X1

c.   Altitude, sync day, inclination, days, DMU

d.   Available launch windows

  (1) Vehicle

  (2) Pan camera

  (3) SI camera

  (4) Recommended launch window for each inclination

angle.

e.   Time and date (Z) REAGIN-55 is required at

25X1

f.   Supporting data

  (1) All secondary payloads, including scientific

experimental gear, that are being placed aboard, other than primary

payload.

  (2) Brief explanation as to why these items are being

placed aboard.

  (3) Statement that items do/do not affect primary

mission.

  (4) If items do affect primary mission, what is that

effect and what choice is available to correct it? (I.e. , shortened

life, less than full primary payload, etc.)

g.   Remarks

25X1

CORONA

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(REAGIN-53)
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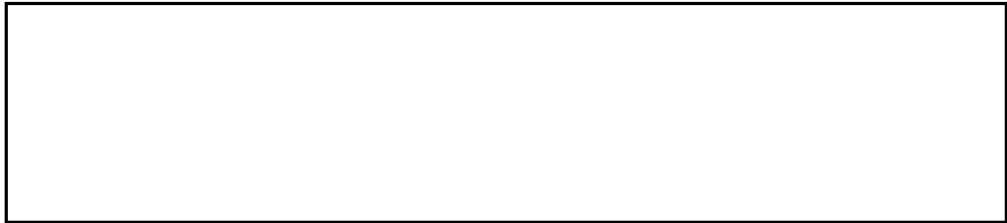TOP SECRET
25X1
25X1
CORONA

9. <u>Sample Cable</u>:

REAGIN-53

A. 1115

B. 19 MAY 71

C. 80 NM INJECTION PERIGEE, 7.5 DAY LOW SYNCH.

80 DEG - 20 DAYS, 11 DMU; 81.5 DEG - 20 DAYS, 11 DMU;

83 DEG - 20 DAYS, 10 DMU; 85 DEG - 20 DAYS, 10 DMU,

90 DEG - 17 DAYS, 8 DMU.

D.

INCL	(1) VEHICLE	(2) PAN	(3) SI	(4) RECOMMENDED
80	1800-2400Z	2100-2400Z	2000-2300Z	2100-2300Z
81.5	1800-2400Z	2100-2330Z	2000-2300Z	2100-2300Z
83	1800-2400Z	2100-2330Z	2000-2300Z	2100-2300Z
85	1800-2400Z	2100-2300Z	1930-2230Z	2100-2230Z
90	1800-2400Z	2100-2300Z	1930-2230Z	2100-2230Z

E. 1700Z, 2 MAY 71

F. (1) P-11, OTEX A & B, TAPE RECORDER

(2) BY DIRECTION

(3) DOES NOT AFFECT PRIMARY MISSION

CORONA
25X1
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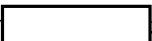CHANGE 1, 10 Nov 70

25X1

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PRIMARY INCLINATION ANGLE SELECTION

(REAGIN-55)

1. <u>Purpose</u>: To notify interested agencies of the inclination

25X1 angle selection by ⬚ for any scheduled mission.

25X1 2. <u>Point of Origin</u>: ⬚
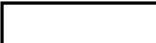
3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

   Info: Priority

5. <u>Submitted For</u>: Each scheduled mission

6. <u>Report Due Time</u>: Not later than 23 days prior to launch.

Date and time this message is required by ⬚ will be stated

in REAGIN-53.

7. <u>Submitted To</u>: ⬚

8. <u>Contents Format</u>:

   a. Mission number

   b. Number and transmission date (Z) of planning orbit

   c. Inclination angle selected

   d. Desired mission duration

   e. Approved optimum launch time and date (Z)

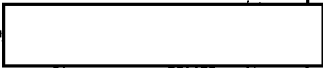   f. Earliest launch time and date (Z)

25X1

25X1

25X1

25X1

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CORONA

25X1

25X1

g. Remarks

9. Sample Cable:

REAGIN-55

A. 1115

B. 3075/27 APRIL 71

C. 81.5 DEGREES

D. 20 DAYS

E. 2300Z, 19 MAY 71

F. 2245Z, 19 MAY 71

G. (1) [   ] WILL FURNISH [   ] WITH X-Y
COORDINATES FOR DISIC OPERATIONS

(2) [   ] WILL SEND EMERGENCY PROGRAM FOR
HOLIDAY AREAS TO [   ]

END OF MESSAGE

25X1

25X1

25X1

25X1

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COUNTDOWN STATUS REPORT

(REAGIN-56)

1. Purpose: To keep interested agencies informed of the status
of the vehicle during pre-launch countdown.

25X1

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Immediate

   Info: Priority

5. Submitted For: Each mission

6. Report Due Time: The initial report will be due two hours
prior to estimated time of launch and thereafter every hour until a
launch or abort occurs. Estimated time of launch will be based on
the time given in the latest REAGIN-35.

7. Submitted To: [   ]

25X1

8. Contents Format:

   a. Mission number

   b. Latest estimated time of launch

   c. Reason for any change in estimated launch time from
previously submitted REAGIN-35.

9. Sample Cable:

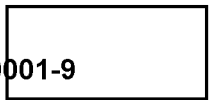25X1
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[   ]

CORONA

[   ]

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CITE:

REAGIN-56

A. 1116

B. 2030Z

C. DELAY IN AGENA PROPELLANT LOADING CAUSED

FIFTEEN-MINUTE DELAY.

END OF MESSAGE

CORONA

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PRE-RECOVERY REPORT

(REAGIN-57)

1. Purpose: To inform interested agencies of the estimated time of recovery and the anticipated recovery area.

2. Point of Origin:

3. Classification: Top Secret

4. Precedence: Action: Priority

   Info: Routine

5. Submitted For: Each mission

6. Report Due Time: Submit as soon as possible, but not later than 10 hours prior to recovery

7. Submitted To:

8. Contents Format:

   a. Mission number

   b. Estimated day/time (Z) recovered capsule should be aboard recovery aircraft

   c. Estimated recovery area in degrees latitude/longitude

   d. Weather in recovery area

9. Sample Cable:

25X1

25X1

25X1

25X1
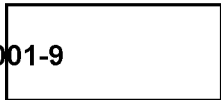
CORONA

TOP SECRET

CORONA

25X1

25X1

REAGIN-57

A. 1116-1

B. 11/2300Z

C. 17N, 156W

D. 2000 SCATTERED, TOPS 5000 - 3 FT SEAS - WIND 200/15
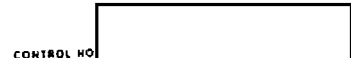
END OF MESSAGE

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CORONA

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ORBITAL EPHEMERIS

(REAGIN-58, DAILY & FINAL PRELIMINARY DATA)
(REAGIN-58A, FINAL "APF" EPHEMERIS)
(REAGIN-58B, FINAL "APF" ORBITAL ELEMENTS AND "APF"
              ACCURACY STATEMENT)

1. Purpose: To provide various using agencies with vehicle

ephemeris data during and after each mission.

2. Point of Origin: _____

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

                Info: Routine

6. Submitted For: Each mission

7. Report Due Time: REAGIN-58 is due ASAP after each day's

operation; REAGIN-58A and -58B are due NLT 3 days after completion

of the mission. _____ will only receive the final REAGIN-58.

8. Submitted To: _____

9. Contents Format:

   REAGIN-58 and -58A:

   a. Revolution number, GMT date, vehicle number

   b. Revolution ephemeris horizontal data

CORONA
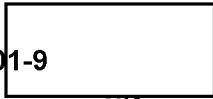
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CORONA

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(1) Universal time in hours, minutes, seconds

(2) System time in seconds

(3) Geodetic latitude and longitude of nadir position for each minute of time

(4) Height of vehicle above the reference (Hough) ellipsoid

(5) The radial distance, which is the length of the imaginary line beginning at the geometric center of the reference ellipsoid and terminating at the vehicle

(6) The right ascension angle of the radial line from the geometrical center of the reference ellipsoid to the vehicle

(7) The inertial velocity of the vehicle (as opposed to ground track velocity)

(8) Flight path of the vehicle

(9) Vehicle azimuth (Vector) referenced to a nonrotating sphere

(10) Geocentric latitude angle

c. Preceding each full revolution a line of orbital elements data for that revolution is given as follows:

(1) Epoch

(2) Longitude of the ascending node

(3) Orbit inclination angle

25X1

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(4) Eccentricity of the orbit

(5) Orbit decay

(6) Rate of decay

(7) Perigee

(8) Argument of perigee

(9) Apogee

REAGIN-58B:

a. Mission number

b. Accuracy statement

    (1) Along - track

    (2) Across - track

    (3) Height

    (4) Reliability

c. Element values in machine coded language

10. <u>Sample Cable</u>:

REAGIN-58 AND -58A:

REAGIN-58 (REAGIN-58A)

A. REV NO. 8, 19 NOV 70, VEHICLE NO. 1681

B. (1) 21-25-30

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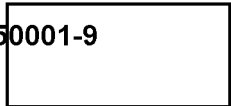
25X1

CORONA

(2) 77740.0

(3) 49 47.9S 107 11.8W

(4) 213546 YARDS

(5) 7188118 YARDS

(6) 284 48.1

(7) .25790

(8) 0 44.5

(9) 169 33.2

(10) 21 51.7S

C. (1) 9-22 08 02

(2) 307.49

(3) 80.06

(4) 0.02023

(5) 90.802

(6) -40.32

(7) 7173564 YARDS

(8) 164.16

(9) 7469729 YARDS

END OF MESSAGE

REAGIN-58B:

25X1

25X1

25X1

CORONA

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CORONA

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REAGIN-58B

A. 1112

B. ACCURACY STATEMENT

    (1) PLUS OR MINUS 2600 FEET

    (2) PLUS OR MINUS 2200 FEET

    (3) PLUS OR MINUS 1600 FEET ABOVE REFERENCED

EARTH

    (4) PLUS OR MINUS 2600 FEET, 3 SIGMA OF THE

ERROR VALUE

C. (ELEMENT VALUES EXPRESSED IN MACHINE CODE)

             END OF MESSAGE

NOTE: Ordinarily the 9300/DLT transmissions of the above

will be formatted in the horizontal. The vertical format above is

used merely as a convenience in typing this manual.

25X1

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CORONA   25X1

25X1

TARGET COVERAGE LIST FOR MISSION [   ]   25X1

(REAGIN-61)

25X1   1. <u>Purpose</u>: To provide [   ] with timely and accurate data

25X1   on all COMIREX and [   ] targets covered on each mission.

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

Info: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: For REAGIN-61C, G, and J, ASAP at end

of each day's operations; for REAGIN-61A, D, and E, NLT 48 hours

after completion of each SRV filmload.

8. <u>Submitted To</u>:

[   ]   25X1

REAGIN-61A

only)

9. <u>Contents Format</u>: (See NOTES 2 and 3)

a. Mission number

b. Status number

c. COMIREX target number

25X1   d. [   ] component code number, target name,

country code, latitude, longitude

25X1

CORONA

[   ]

CONTROL [   ]   25X1

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25X1

CORONA

e. WAC - NPIC number

f. Forward-looking camera

   (1) Pass

   (2) Frame

   (3) X-coordinate

g. Aft-looking camera

   (1) Pass

   (2) Frame

   (3) X-coordinate

h. Data line type

10. Sample Cable:

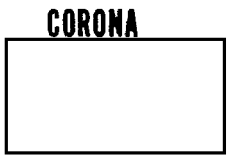TO: ACTION: PRIORITY:

25X1

CITE:

25X1

REAGIN-61J

A. 1116-2

B. 1

C. 7A0992

D. 323 MOGILEV MILITARY DEPOT UR 535500N 1000000E

E. 0167 41B

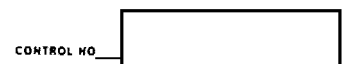F. 125 38 5

G. 125 43 64

H. 07

END OF MESSAGE

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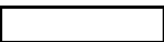
CORONA

25X1

NOTES

1. Ordinarily the format of the above information will be
horizontal. The vertical format above is used merely as a convenience
in typing this manual.

2. REAGIN-61C -61G and -61H use the [   ] target list.   25X1
REAGIN-61C is in pass/frame (time) order; REAGIN-61G is ordered by
[   ] component code and within component code by pass/frame
(time). REAGIN-61H is in WAC/[   ] number order.   25X1

3. REAGIN-61A, -61D, -61E -61F -61J -61K and -61Q use
the COMIREX target list. REAGIN-61A is in COMIREX target number
order; REAGIN-61D is sorted by [   ] component code and within   25X1
component code by COMIREX ID (data is triple spaced). REAGIN-61E
is ordered by component code and within component code by pass/frame
(time). REAGIN-61F is in straight pass/frame (time) order. REAGIN-
61J is the same as REAGIN-61D but single spaced. REAGIN-61K is the
same as REAGIN-61D but is sorted by the first digit of the component
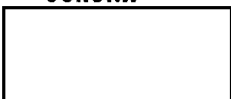code. REAGIN-61Q is sorted by pass/component code/COMIREX ID.

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25X1

CORONA

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CO[   ]

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FLIGHT OPERATION DATA (DAILY AND FINAL)

(REAGIN-62)

1. Purpose: To provide various using agencies with post-flight operational data for each mission.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

             Info: Priority

6. Submitted For: Each day of operation on orbit and for each recovered capsule.

7. Report Due Time: Sections 1 and 3 will be transmitted daily during flight. A final report, consisting of sections 1, 2, and 3, will be transmitted as soon as possible after each capsule recovery.

[   ]

25X1

9. Contents Format:

    a. Mission number.

    b. Condition of payload.

    c. Section 1 - operations and photographic summary:

25X1

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[   ]

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(1) Operations summary of forward-looking pan camera number: Rev, camera operation number, total frames in operation (first line only) frame number for which balance of line data applies (frame number recycle at ascending node of each orbit revolution); quadrant and geodetic latitude at center of format; longitude at center of format; altitude in feet; range in feet from vehicle to center of format on the ground; day of month; system time in hours, minutes, seconds (GMT); local time at center of format; systems time in seconds (GMT).

(2) Operations summary of aft-looking pay camera number: same as forward camera.

(3) Photographic summary of forward-looking pan camera number: Rev, camera operation number, total feet of film in operation (first line only); total frames in operation (first line only); frame number for which balance of line data applies; slit width in inches; filter type; film type; estimated exposure time in milliseconds; solar elevation at center of format in degrees; solar body angle - the delta - azimuth angle between vehicle and sun (angle between longitudinal axis and sun measured in plane perpendicular to radial vector to vehicle) measured -180 to +180 degrees with flight direction at zero and increasing angles clockwise; estimated exposure value of pan frame; ground track azimuth-direction of ground track measured 0 to 360 degrees

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clockwise from north (this angle includes directional change in ground track from inertial azimuth which results from earth's rotation).

(4) Photographic summary of aft-looking pan camera number: same as forward camera.

d. Section 2 - the rate and clock summary:

(1) Forward-looking pan camera rate estimate: Rev, camera operation number, ramp start level, ramp half-cycle level, total frames in operation (first line only); frame number for which balance of line data applies; time from start of operation to frame; seconds up ramp from start of primary sine-function generator; seconds up ramp from start of secondary sine-function generator; estimated instrument cycle rate; estimated FMC rate in radians per second; estimated scan rate in radians per second; estimated scan rate in inches per second; estimated instrument-to-orbit match (this data may be slightly in error).

(2) Aft-looking pan camera rate estimate - same as forward camera.

(3) Pan camera ramp profile data (one profile for each ramp) - period of the secondary sine-function generator (P); secondary sine-function generator multiplicative factor (K); time up ramp for secondary sine-function generator (T); cycle rate (or period) output of
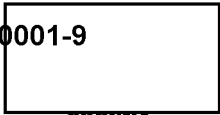
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primary sine-function generator (R); the universal constant (PI); time

up ramp in seconds; output cycling data of primary sine-function

generator for forward- and aft-looking pan cameras; cycle period for

forward-looking; cycle rate for forward-looking; angular velocity of

forward-looking (same info as aft-looking).

NOTE: The true instrument cycle rate (or period) (C)

is computed as follows:

$$C = R (1 + (K (1 - COS (2 T PT/P))))$$

(4) Clock to systems - time

Correlation Data - Preliminary clock

Correlation - First order fit-seconds system time adjusted for transmis-

sion time and the corresponding clock time as read from telemetry data;

seconds system time adjusted by least squares fit of clock and system

time; difference between input and adjusted systems time; rev; and track-

ing station. Second-order fit is run in the same format as first-order fit.

(5) Forward-looking pan camera clock operation

summary: Rev, camera operation number, total frames in operation

(first line only); frame number for which balance of line data applies;

system time in hours, minutes, seconds (GMT) at center of format;

decimal clock time at center of format; binary clock reading.

(6) Aft-looking pan camera clock operation summary -

same as forward-looking.

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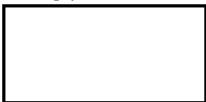
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  e. Section 3 - The DISIC operations and photographic

summary.

    (1) The DISIC operations summary: Rev, operation

number, total terrain frames in operation (first line only); terrain

frame number for which balance of line data applies; stellar frame

number taken at the time of this terrain frame (each stellar frame con-

sists of one exposure from the starboard stellar plus one from the port

stellar where port and starboard are left and right respectively, looking

ahead in orbit); forward-looking pan frame which has a center of format

most nearly at the same location as the center of format on this terrain

frame; if no forward pan frame covers the terrain center of format

this report will contain minus ninety-nine (-99); aft-looking pan frame

contains same data as forward-looking; quadrant and geodetic latitude

at center of terrain format; longitude at center of format; height in

feet from a point on the ground corresponding to the center of terrain

format; systems time (GMT) at center of terrain format; local time at

center of terrain format.

    (2) The DISIC photographic summary: Rev, operation

number, total terrain frames in operation (first line only); terrain

frame number for which balance of line data applies; stellar frame num-

ber taken at the time of this frame; forward-looking pan frame which has

a center of format most nearly at the same location as the center of

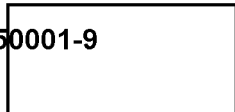**TOP SECRET**

TOP SECRET

CORONA

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format on this terrain frame; if no forward-looking pan frame covers

the terrain center of format, this report will contain minus ninety-nine

(-99); aft-looking pan frame contains same data as forward-looking pan;

exposure time coded and identified in heading; solar elevation at center

of terrain format; solar body angle as described in 9.c.(3); estimated

exposure value of terrain frame; ground track azimuth as described in

paragraph 9.c.(3); estimated right ascension at center of port stellar

camera exposure; estimated declination at center of stellar exposure;

estimated orbit angle at which stellar frame was taken (orbit angle is

measured from 0 to 360 degrees along the direction of flight, with 0

degrees at the ascending node, 90 degrees at the highest northern lati-

tude achieved, 180 degrees at the descending node, and 270 degrees at

the highest southern latitude achieved).

   10. Sample Cable:

      NOTE: All data records will be 80 columns with columns 73

thru 80 containing an eight-digit identification number in accordance with

the following rules:

      a. Column 73 will contain the version number (1 thru 9).

      b. Column 74 - section identification as follows:

SECTION NAME	NUMBER
Pan Camera Operations Summaries	1
Pan Camera Photographic Summaries	2
Pan Camera Rate Summaries	3

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Clock to Systems-Time Correlation	4
Pan Camera Clock Summaries	5
DISIC Operations Summary	6
DISIC Photographic Summary	7
Message Headers Notes	8
Pan Camera Ramp Profiles	9
Blank Records, other	0

    c. Column 75 - line data association number as follows:

ASSOCIATION	NUMBER
Forward-Looking Pan Camera	1
Aft-Looking Pan Camera	2
DISIC Terrain Camera Data (See para f. below)	
Clock Correlation Headers	4
Clock Correlation Fit-One Line Data	5
Clock Correlation Fit-One Results	6
Clock Correlation Fit-Two Line Data	7
Clock Correlation Fit-Two Results	8
Pan Camera Ramp Data	9
Note Message Headers	0

    d. Columns 76 through 78 will contain a non-recycling operation number for pan camera operations. The first operation during the mission for both pan cameras will be numbered 001 with operations numbered consecutively to the end of the mission. For the ramp profiles these columns will contain a ramp identification number between 001 and 400 for immediate identification by computer logic of the ramp in
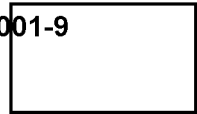
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question. (The ramp defined by start level 1 half cycle level 1 will be number 001, start level 2 half cycle level 1 will be 021, etc.)

e. Columns 79 thru 80 are for line item numbering within sections 1 and 2. (Sections are determined by a. thru d. above.)

All line items will be numbered consecutively, except that the first frame line data for each pan camera operation will always be numbered 01 and the last frame line data will always be number 99.

f. Line item numbering for DISIC summaries will be as follows:

Column 73 as above.

Column 74 as above.

Columns 75 thru 77 will contain a non-recycling operation number for DISIC operations:

Columns 78 thru 80 - The first frame line data for each DISIC camera operation will always be numbered 001 and the last frame line data will always be numbered 999.

g. The data to be provided in each of the summaries will consist of headers, prelaunch data (if applicable), plus line data for each camera operation as follows-- (The line data for all pan camera operations will consist of one data line for the first frame [   ] one data line for the last usable frame, plus one data line for each intervening point of photographic change. The line data for DISIC camera operations will consist of one data line for each terrain frame.)

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(REAGIN-62)

REAGIN-62

A. 1117-1

B. DRY

C. SECTION 1 OPERATIONS AND PHOTOGRAPHIC SUMMARY:

   1. OPERATIONS SUMMARY
       FWD PAN CAMERA NUMBER 354

REV	OPN	FRA TOT	FRA NUM	LAT DEG-MN	LONG DEG-MN	HEIGHT (FEET)	RANGE (FEET)	DA	H-M-S	LTIM H-M	S-TIM (GMT)
1	6 1	18	1	256 01	150 16W	702352	728097	16	2304 35	1304	83075
			17	253 38	149 07W	691520	716807	16	2305 12	1309	83112

   2. OPERATIONS SUMMARY
       AFT PAN CAMERA NUMBER 355

REV	OPN	FRA TOT	FRA NUM	LAT DEG-MN	LONG DEG-MN	HEIGHT (FEET)	RANGE (FEET)	DA	H-M-S	LTIM H-M	S-TIM (GMT)
1	6 1	18	1	256 59	150 46W	702352	728097	16	2304 35	1301	83075
			17	254 35	149 33W	691520	716807	16	2305 12	1307	83112

25X1

25X1

CORONA

(REAGIN-62)

3. PHOTOGRAPHIC SUMMARY
   FWD PAN CAMERA NUMBER 354

REV	OPN	FEET TOTAL	FRA TOT	FRA NUM	SLIT (IN)	FILT TYPE	FILM TYPE	ET	SOLAR ELEV	SOLAR DIR	EV	GR. TR. AZIM.
1	6 2	47.4	18	1	0.2002	W/23A	3404	320	55.3	42.1	12.17	163.9
				17	0.2002	W/23A	3404	324	57.1	44.6	12.19	165.1

4. PHOTOGRAPHIC SUMMARY
   AFT PAN CAMERA NUMBER 355

REV	OPN	FEET TOTAL	FRA TOT	FRA NUM	SLIT (IN)	FILT TYPE	FILM TYPE	ET	SOLAR ELEV	SOLAR DIR	EV	GR. TR. AZIM.
1	6 2	47.4	18	1	0.1502	W/21	3404	425	54.6	41.2	12.58	163.4
				17	0.1502	W/21	3404	432	56.4	43.7	12.61	164.6

D. SECTION 2 THE RATE AND CLOCK SUMMARY:

1. RATE ESTIMATE
   FWD PAN CAMERA NUMBER 354

REV	OPN	RAMP	FRA TOT	FRA NUM	TIME FROM START	TUR PRM	TUR SEC	INSTRUMENT CPS	ANG-VEL	SCAN-RATE R/SEC	I/SEC	ORBIT MATCH (PCT)
1	6 2	5 9	18	1	0	1007	3521	0.4251	0.03528	2.671	64.10	6.1
				17	36	1044	3558	0.4314	0.03148	2.711	65.06	5.9

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25X1

CORONA

(REAGIN-62)

TOP SECRET

2. RATE ESTIMATE
   AFT PAN CAMERA NUMBER 355

REV	OPN	RAMP	FRA TOT	FRA NUM	TIME FROM START	TUR PRM	TUR SEC	INSTRUMENT CPS	INSTRUMENT ANG-VEL	SCAN-RATE R/SEC	SCAN-RATE I/SEC	ORBIT MATCH (PCT)
1	6 2	5 9	18	1	0	1007	3521	0.4240	0.03519	2.664	63.94	5.8
				17	36	1044	3558	0.4304	0.03573	2.704	64.91	5.7

3. RAMP PROFILE
   LEVEL 1 = 5, LEVEL 2 = 9, PRIMARY PERIOD = 3100 SECONDS
   SECONDARY PERIOD = 2625, SECONDARY RAMP FACTOR = 0.049850

PRIMARY CYCLE DATA

TUR	FWD-LOOKING PAN CAMERA PERIOD	CPS	ANG-VEL	AFT-LOOKING PAN CAMERA PERIOD	CPS	ANG-VEL
0	3.407	0.2936	0.02437	3.412	0.2930	0.02432
100	3.390	0.2950	0.02448	3.396	0.2945	0.02444
200	3.342	0.2992	0.02484	3.346	0.2988	0.02480

4. CLOCK CORRELATION SUMMARY
   ORDER FIT ONE

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.33040756D 05	0.470276367D 06	0.330407484D 05	0.0076	8	COOK
0.77886913D 05	0.515122526D 06	0.778869180D 05	-0.0050	16	COOK

AO = 0.4372357287D 06   A1 = 0.100000023428D 01
SIGMA = 0.00291   NO. POINTS = 11
RATIO OF CLOCK TIME TO SYS TIME = 0.999999765721D 00

25X1

25X1

CORONA

CORONA

(REAGIN-62)

ORDER FIT TWO

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
0.33040756D 05	0.470276367D 06	0.330407505D 05	0.0055	8	COOK
0.77886913D 05	0.515122526D 06	0.778869188D 05	-0.0058	16	COOK

$AO = 0.4372356950D\ 06 \quad A1 = 0.100000013181D\ 01$
$A2 = 0.7466891496662D-13$
$SIGMA = 0.00266 \quad NO.\ POINTS = 11$

5. CLOCK OPERATIONS SUMMARY
   FWD PAN CAMERA NUMBER 354

REV	OPN	FRA TOT	FRA NUM	SYS-TIME H M S	CL-TIME DECIMAL	BINARY CLOCK READING
1	6 2	18	1	23 04 35	433911.4	11001110111001111011010001101
			17	23 05 12	433948.2	11001110111011000011001011010

6. CLOCK OPERATIONS SUMMARY
   AFT PAN CAMERA NUMBER 355

REV	OPN	FRA TOT	FRA NUM	SYS-TIME H M S	CL-TIME DECIMAL	BINARY CLOCK READING
1	6 2	18	1	23 04 35	433911.4	11001110111001111011010
			17	23 05 12	433948.2	11001110111011000011001

E. SECTION 3 THE DISIC PERFORMANCE SUMMARY:

1. DISIC OPERATIONS SUMMARY

25X1

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25X1

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25X1

CORONA

(REAGIN-62)

TOP SECRET
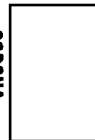
REV	OP	TERRAIN FRA TOT	STL FRA NUM	FWD PAN FRA	AFT PAN FRA	LAT DEG-MN		LONG DEG-MN		HEIGHT (FEET)	S-TIME (GMT)	LTIM H M
1	1	21	1	1	-99	-99	270	6	163	10W	773344	82857.0	1208

2. DISIC PHOTOGRAPHIC SUMMARY

CAMERA	EXPOSURE TIME	FILM	FILTER
STELLAR	1.5 SEC.	3401	NONE
TERRAIN	A = 1/250, B = 1/500	3400	W/12

REV	OP	TERRAIN FRA TOT	STL FRA NUM	FWD PAN FRA	AFT PAN FRA	E T	S-EL (DG)	S-DIR (DEG)	TERR EV	GR-TR AZIM	STELLAR R-ASC	DECL	FRAME ORBIT ANGLE
1	1	21	1	1	-99	-99	A	43.2	31.8	11.8	150.6	202.3	19.5	107.4

END OF MESSAGE

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25X1

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CORONA

CORONA

25X1

NOMINAL COVERAGE AND CONSUMPTION DATA

(REAGIN-64)

25X1

1. Purpose: To provide [   ] with nominal independent

DISIC and emergency program cut for editing prior to H-timer

punching.

2. Point of Origin: [   ]   NRO   25X1

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each mission

7. Report Due Time: NLT twelve days prior to launch

8. Submitted To: Action: [   ]   25X1

9. Contents Format:

    a. Title and mission number

    b. Rev number

    c. Program code (0 = Station acquisition, 1 = Emergency

Program 1, 2 = Emergency Program 2, 6 = CASCADE Program, 11 =

DISIC Program)

    d. Operation number this rev for a particular program

    e. Function (i.e., tracking station, emergency program

operation, CASCADE, or DISIC)

25X1

    f. Time interval in seconds between CASCADE punch holes

CORONA

25X1

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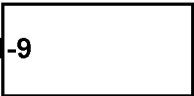
25X1

25X1

g.   On and off times of each program in seconds

h.   On and off latitudes of each program in degrees and

minutes

i.   Duration in seconds for each operation

j.   Total program duration for an entire rev for all DISIC

and emergency programs.

k.   Total nominal DISIC and emergency program film

consumption expected in cycles for each operation, each rev, and

cumulative total for mission.
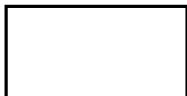
10.   Sample Cable:

TO: ACTION: PRIORITY: [   ]

25X1

CITE: [   ]

REAGIN-64

(Data on following page)

25X1

25X1

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25X1

25X1

CORONA

(REAGIN-64)

NOMINAL COVERAGE AND CONSUMPTION DATA FOR MISSION 1117

NRO
25X1

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REV	PR	OP	FUNC-TION	PUNCH SPACE (SEC)	ON TIME	OFF TIME	ON LAT DEG-MIN	OFF LAT DEG-MIN	TOTAL-DURAT THIS OP	THIS REV	TOTAL-NOM-CYCLES THIS OP	THIS REV	IN MISSION
56	0	1			968	1347	165 22	287 41	379				
56	1	1	OPER		1500	1629	277 12	270 8	129	129	60	60	5873
56	1	2	OPER		1664	1744	266 08	262 17	80	209	38	98	5911
56	1	3	OPER		1966	2114	245 35	237 00	148	357	74	172	5985
56	2	1	OPER		1937	1987	247 28	245 44	50	50	25	25	641
56	6	1	CASC	6	1436	2666	282 29	301 38	1230				
56	6	2	CASC	6	2676	2778	302 19	309 19	102				
56	6	3	CASC	6	2832	2964	313 01	322 05	132				
56	11	1	DISI		1812	1846	257 01	254 40	34	34	4	4	1796
56	11	2	DISI		1883	1916	252 09	249 53	33	67	4	8	1800

ETC.

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END OF MESSAGE

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CORONA

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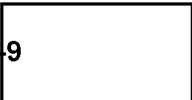
25X1

CORONA

25X1

DISIC/EMERGENCY FILM CONSUMPTION DATA

(REAGIN-65)

1. **Purpose**: To correlate actual independent DISIC and emergency programs, as punched on H-timer, to geodetic latitudes and to provide related film consumption data.

2. **Point of Origin**:

3. **Transmission of Message**: UNIVAC 9300/DLT

4. **Classification**: Top Secret

5. **Precedence**: Action: Priority

6. **Submitted For**: Each mission

7. **Report Due Time**: Daily

8. **Submitted To**: Action:

9. **Contents Format**:

    a. Mission number

    b. Film consumption data

    (1) Rev number with northbound (N) or southbound (S) designator for station acquisitions only.

    (2) Program and operation number this rev for program (1 = Emergency 1; 2 = Emergency 2; 10 = brush point; and 11 = DISIC).

    (3) Latitude program comes on, if selected, and latitude program ends in degrees - minutes.

25X1

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25X1

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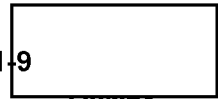
25X1

CORONA

25X1

(4) Maximum elevation in degrees. This does not

apply to DISIC or emergency programs, but only to acquisition and

fade information which is intermingled with film consumption data.

(5) Duration of DISIC or emergency program in seconds.

(6) Nominal film consumption in cycles for programs 1,

2, and DISIC. Program 6 is CASCADE punches and is always zero.

DISIC is broken down into two categories--slave, applicable to

emergency pan programs only, and independent DISIC.

10. Sample Cable:

TO: ACTION: PRIORITY: [   ]

CITE: [   ]

REAGIN-65

A. 1116-2

B. FILM CONSUMPTION DATA

(Data on following page)

25X1

25X1

25X1

CORONA

[   ]

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25X1

CORONA

REV	PN	OP	LAT ON DEG-MN	LAT OFF DEG-MN	MAX ELV	DUR SEC	NOMINAL PR 1	PR 2	PR 6	CONSUMPTION DISIC IN SLV	IN IND
120N	BOSS		132 21	ACQ	6						
120N	BOSS		FADE	154 22	6						
120	1	1	150 16	153 7	0	68	25	0	0	8	8
120N			163 10	ACQ	31						
120N			FADE	154 22	31						
120	1	2	275 3	240 29	0	530	232	0	0	57	37
120	1	3	230 22	229 8	0	39	19	0	0	4	4
120	10	1	485 34	*** **			0	0	0	0	0
120	11	1	258 34	248 29	0	141	0	0	0	0	15
120	11	2	247 7	244 6	0	35	0	0	0	0	4
120	11	3	225 38	223 23	0	34	0	0	0	0	4

25X1
NRO

ETC.

END OF MESSAGE

25X1

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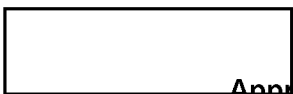
25X1

TOP SECRET

CORONA

25X1

25X1

MISSION PRODUCT DELIVERY AIRCRAFT MESSAGE

(REAGIN-69)

25X1

1. <u>Purpose</u>: To assure [   ] that aircraft is on the way to pick

up mission product which is ready for delivery.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

    Info: Priority

5. <u>Submitted For</u>: Each flight departing for [   ] to pick up

mission product.

25X1

6. <u>Report Due Time</u>: Immediately after aircraft departs for

25X1

[   ]

7. <u>Submitted To</u>: [   ]

25X1

8. <u>Contents Format</u>:

    a. Mission number

    b. Actual time and date of aircraft departure

    c. Location of aircraft departure

    d. Estimated time of arrival at [   ]

25X1

9. <u>Sample Cable</u>:

25X1

[   ]

25X1

CORONA

25X1

[   ]

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CORONA

25X1

CITE:

REAGIN-69

A. 1112-2

B. 23/2300Z

C. ANDREWS AFB

D. 24/0100Z

END OF MESSAGE

25X1

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25X1

PRECISION CLOCK CORRELATION

(REAGIN-70)

1. <u>Purpose</u>: To provide interested agencies with the best possible correlation between clock time recorded on payload film and Greenwich mean time (GMT).

25X1

2. <u>Point of Origin</u>:

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: As soon as possible after recovery of last SRV.

8. <u>Submitted To</u>: Action:

25X1

9. <u>Contents Format</u>:

   a. Mission number

   b. Data identification

   c. First-order polynomial fit clock readout data and first-order coefficients.

   d. Second-order polynomial fit clock readout data and second-order coefficients.

10. <u>Sample Cable</u>:

25X1   TO: ACTION: PRIORITY:

25X1

CORONA

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25X1

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5X1

CITE:

PEAGIN-70

A. .116

B. POST FLIGHT PRECISION CLOCK CORRELATION

FIRST-ORDER FIT

REV STAT AV-SYS-TIME   AV-CLK-TIME PT COMP-SYS-TIME DELTA-ST

KODI 0.8261735171D05 0.1550202330D06 6 0.8261736253D05 0.010825
HULA 0.8444947815D05 0.2247815290D06 1 0.8444947440D05 0.003751

-0.72402845903D05 $A1 = 0.9999998415283D00$
SIGMA = 0.00351966   NO. POINTS = 7   NO. ACQUISITIONS = 2

SECOND-ORDER FIT

REV STAT AV-SYS-TIME   AV-CLK-TIME PT COMP-SYS-TIME DELTA-ST

KODI 0.8261735171D05 0.1550202330D06 6 0.8261735370D05 0.001990
HULA 0.8444947815D05 0.2247815290D06 1 0.8444947851D05 0.000366

-0.72402862405D05 $A1 = 0.999999896700D00$ $A2 = -0.368954348223D-13$
SIGMA = 0.00092898   NO. POINTS = 7   NO. ACQUISITIONS = 2

END OF MESSAGE

25X1

25X1

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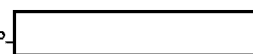PAGE 2 OF 2 PAGES

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CORONA

25X1

PRELIMINARY SRV TAPE RECORDER REPORT

(REAGIN-71)

25X1   1. Purpose: To provide the [   ] team leader at [   ]

with an SRV tape recorder performance report.

25X1   2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Immediate

Info: Priority

5. Submitted For: Each recovered SRV equipped with a tape

recorder.

6. Report Due Time: Within 10 hours after delivery of SRV

25X1   tape recorder to [   ]

7. Submitted To: [   ]   25X1

8. Contents Format:

a. Mission number

b. Estimated percent of tape recorder frame times to

25X1   be transmitted from [   ] in REAGIN-81 and REAGIN-91

(1) Forward-looking camera

(2) Aft-looking camera

(3) DISIC (slave operations only)

25X1

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CONTROL NO [   ]   25X1
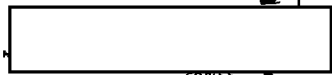COPY _____ OF _____ COPIES
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c. Description and location of missing frame time data for

    (1) Forward-looking camera

    (2) Aft-looking camera

    (3) DISIC (slave operations only)

d. Estimated time of REAGIN-81 and REAGIN-91

transmission.

9. Sample Cable:

25X1

REAGIN-71

A. 1117-1

B. (1) 100

    (2) 45

    (3) 100

C. (1) NONE

    (2) ALL DATA AFTER REV 74, OPER 2

    (3) NONE

D. 102200 DEC 71

END OF MESSAGE

25X1
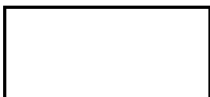
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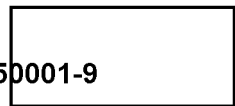
25X1

TOP SECRET

25X1

CORONA

FRAME TIME & ATTITUDE DATA

(REAGIN-72)

25X1

1. Purpose: To provide [   ] with frame time and attitude data

for each mission.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Routine

6. Submitted For: Each mission

7. Report Due Time: Normally within four weeks after

completion of mission.

8. Submitted To: Action: [   ]   25X1

9. Contents Format:

    a. Camera designator (forward or aft)

    b. Pass number

    c. Pass designator (A-D-M)

    d. Frame number

    e. Pitch

    f. Roll

    g. Yaw

    h. Indicator

    i. Year

25X1

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j. G.C.T. (month, day, hour, minutes, seconds)

k. Octal equivalent of uncorrected binary time

l. Mission number and bucket

10. Sample Cable:

TO: ACTION: ROUTINE:

25X1

CITE:
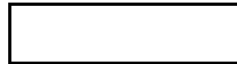
REAGIN-72

A. FORWARD

B. 1

C. D

D. 3

E. 14-41

F. -07

G. -04

H. D

I. 71

J. 10-28-22-44-45.289

K. 3570023204

L. 1116-1

NOTE: Ordinarily the 9300/DLT transmission of the above will be

formatted in the horizontal. The vertical format is used merely as a

convenience in typing this manual.

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NOTIFICATION OF LAUNCH DATE

(REAGIN-75)

1. <u>Purpose</u>: To inform interested organizations of scheduled

launch date

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Routine

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: Thirty-five days prior to launch
25X1

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

   a. Mission Number

   b. Scheduled launch date (GMT)

9. <u>Sample Cable</u>:
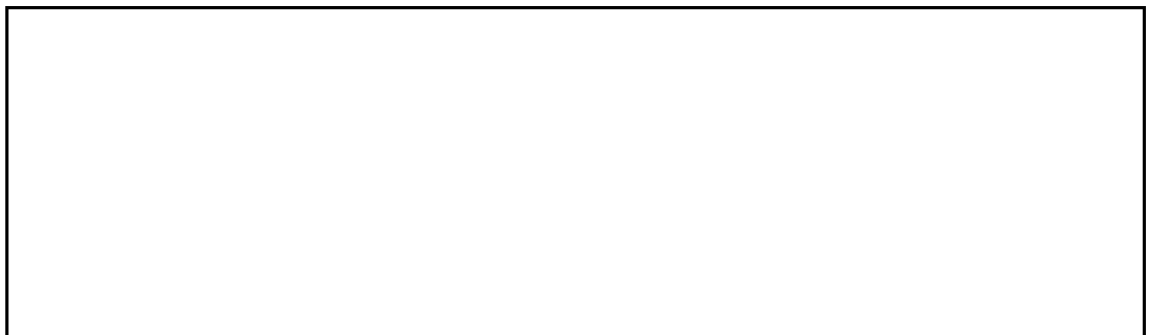
25X1

REAGIN-75

25X1

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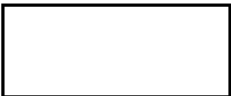
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A. 1116

B. 1 SEPTEMBER 1971 (Z)

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CORONA

CHANGE TO LAUNCH DATE NOTIFICATION

(REAGIN-78)

1. <u>Purpose</u>: To keep all interested organizations informed of any schedule changes that might occur after the REAGIN-75 has been transmitted and prior to transmission of REAGIN-35.

2. <u>Point of Origin</u>:

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

5. <u>Submitted For</u>: As required

6. <u>Report Due Time</u>: Immediately after launch date is changed

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

    a. Mission number

    b. Old launch date (GMT)

    c. New launch date (GMT)

    d. Reason for change and other remarks as necessary

9. <u>Sample Cable</u>:

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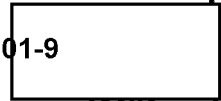
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25X1

REAGIN-78

A. 1117

B. 1 DECEMBER 1971 (Z)

C. 6 DECEMBER 1971 (Z)

D. PAYLOAD PROBLEM

END OF MESSAGE

25X1

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CONTROL NO
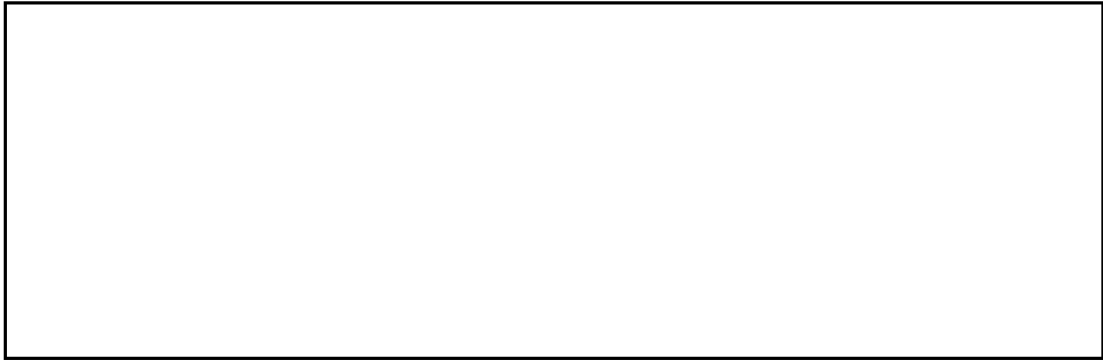COPY _____ OF _____ COPIES
PAGE __2__ OF __2__ PAGES

25X1
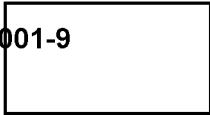
TOP SECRET

25X1

CORONA

LAUNCH REPORT

(REAGIN-79)

25X1

1. <u>Purpose</u>: To inform [   ] of the actual launch of each
mission

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Immediate

Info: Priority

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: Transmit at launch plus 15 minutes

7. <u>Submitted To</u>:

25X1

8. <u>Contents Format</u>:

a. Mission number

b. Date and time launched (GMT)

c. Estimate of success

d. FTV number

e. Payload number

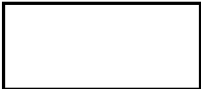f. Inter-range operations number [   ]
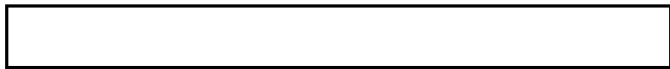
25X1

9. <u>Sample Cable</u>:

25X1

CORONA

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25X1

TOP SECRET

REAGIN-79

A. 1116

B. 01/2000Z

C. LAUNCH SUCCESSFUL

D. 1821

E. J-45

F. 4622

END OF MESSAGE

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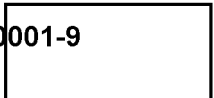
CORONA

25X1

ORBIT CANDIDATES FOR [   ]

(REAGIN-80)

25X1   1. Purpose: To provide [   ] with several orbits as input to

25X1   the orbit evaluation program ([   ] output will assist

25X1   [   ] in selecting the mission orbit.

25X1   2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Priority

5. Submitted For: Each mission

6. Report Due Time: Twenty days prior to launch when secondary payloads are aboard, otherwise sixteen days prior to launch.

25X1   7. Submitted To: Action: [   ]

8. Contents Format:

a. Mission number

b. Inclinations to be considered

c. Orbit synchronous periods to be evaluated for each inclination.

d. Type of orbital period (high/low)

e. Vehicle altitude at perigee in nautical miles

f. Latitude of perigee in degrees

g. Planned mission lifetime in days

25X1   h. Drag considerations

CORONA

[   ]

CONTROL NO [   ]
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25X1

TOP SECRET

CORONA

25X1

i. List of specific areas of interest which will require redundant coverage percentages.

9. Sample Cable:

TO: ACTION: PRIORITY:

CITE:

REAGIN-80

A. 1117

B. 81 THRU 85 DEGREES AT HALF-DEGREE INCREMENTS

C. 8-1/2-DAY, 9-1/2-DAY, AND 11-DAY SYNCHRONOUS ORBIT.

D. LOW PERIOD

E. 100

F. 35N

G. 20

H. NONE. ASSUME NO DRAG.

I. AREAS OF SPECIAL INTEREST

(1) SEMIANNUAL HOLIDAY

(2) ANNUAL HOLIDAY

(3) NORTH VIETNAM

(4) NORTH KOREA

(5) EAST EUR COMM COUNTRIES (NON-HOLIDAY)

(6) MIDDLE EAST (NON-HOLIDAY)

END OF MESSAGE

CORONA

25X1

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25X1

25X1

SRV TAPE RECORDER SUMMARY

(REAGIN-81)

1. Purpose: To provide in-flight recorded data obtained from the satellite recovery vehicle tape recorder.

25X1 2. Point of Origin: [ ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each recovered SRV equipped with a tape recorder.

7. Report Due Time: Within 72 hours after delivery of SRV

25X1 tape recorder to [ ]

25X1 8. Submitted To: Action: [ ]

9. Contents Format:

   a. Mission number

   b. Camera location in vehicle (FWD or AFT), camera look direction (F or A), and camera serial number.

   c. Launch date of mission

   d. Tape recorder data

      (1) Binary payload clock-time with least significant bit first. Only provided for pan and DISIC data lines (columns 2 - 30).

25X1
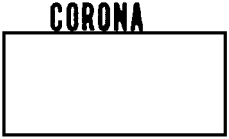
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CHANGE 1, 10 Nov 70

TOP SECRET

25X1

(2) Data descriptor containing camera look direction and serial number for pan data lines and DSIC for DISIC data lines, columns 32 - 35.

(3) Rev number with prefix denoting ascending (A), descending (D), or mixed (M), columns 37 - 40.

(4) Pan or DISIC frame number, columns 42 - 44.

(5) GMT month, day and year of event in columns 46 - 47, 48 - 49, and 50 - 51.

(6) GMT time of event in octal milliseconds, columns 53 - 62.

(7) Slit width and filter type for pan data lines, columns 64 - 67 and 69 - 72.

(8) Numeric record descriptor and key, columns 74 - 80.

10. Sample Cable:

25X1

REAGIN-81

A. 1117-1

B. FWD - A 374   AFT - F 375

C. 1 DEC 71

25X1

25X1

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25X1

(REAGIN-81)

TOP SECRET

D. TAPE RECORDER DATA

CLOCK TIME	CAM DESC	PASS DESC	FRM NUM	G - M - T DATE	OCT	MSEC	SLIT WIDTH	FILT TYPE	4000000 4000000
1101000110	A374	D138	1	12	171	45149800	.204	W-21	1138001
1011000110	F375	D138	1	12	171	45149801	.253	W-25	2138001
1011000110	DSIC	D138	1	12	171	45149801			3138001

END OF MESSAGE

4000000

NOTE: Only 10 bits of clock time are shown. Actual message contains all 29 bits.
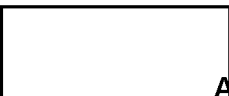
TOP SECRET

25X1

CORONA

25X1

RECOVERY CODE MESSAGE

(REAGIN-82)

25X1

1. <u>Purpose</u>: To inform [   ] of the code words and/or

numbers to be used by tracking stations and recovery forces during

each recovery effort.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

Info: Priority

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: Not later than 3 days prior to launch

25X1

7. <u>Submitted To</u>:

8. <u>Contents Format</u>:

a. Mission number

b. Inter-range operations number [   ]

25X1

c. Cite column numbers (see columns attached to this

message format) to use for each recovery.

9. <u>Sample Cable</u>:
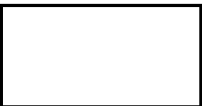
25X1

25X1

CORONA

REAGIN-82

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25X1

CHANGE 1, 10 Nov 70

25X1

CORONA

25X1

A. 1117

C. 1117-1   1117-2

COLUMN B   COLUMN E

END OF MESSAGE

NOTE: The column listings are attached.

25X1

25X1
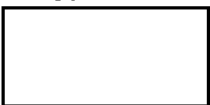
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CORONA

COLUMN NUMBERS

Event numbers   Message

ON-ORBIT PHASE

A	B	C	D	E	F	G	
13	21	17	15	26	23	32	Impact prediction change
31	41	27	17	30	48	29	No acq by any means, standing by for instructions

DESCENT PHASE

27	40	25	12	42	35	24	Visual sighting of parachute
18	34	49	27	46	24	39	Lost visual contact
46	25	29	16	13	37	49	System entered clouds at __ altitude
29	37	45	32	24	18	26	Electronic station passage grid ____
39	17	23	37	48	29	42	Electronic surveillance lost at ____Z
34	18	39	47	16	32	50	Aircraft rigged and ready
02	02	02	02	02	02	02	Aircraft not rigged, and FL 150
23	29	32	49	35	13	36	Recovery gear malfunction. Unable to work.
41	27	48	39	19	26	16	Recovery gear malfunction, repaired
20	43	37	26	12	31	28	Look - see pass completed ___ altitude.
25	38	50	21	32	19	46	Capsule appears damaged

RECOVERY PHASE

45	31	20	35	50	28	18	Lined up for recovery pass
22	22	22	22	22	22	22	Contact-no recovery (tear thru)

25X1

CORONA

25X1

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33	33	33	33	33	33	33	Reporting aircraft de-rigged
11	11	11	11	11	11	11	Parachute damaged - recoverable
44	44	44	44	44	44	44	Attempt aerial recovery
37	30	43	25	17	40	14	System descent rate abnormally high
16	32	18	48	21	38	20	Parachute damaged - not recoverable
28	35	46	34	29	14	31	Missed on recovery pass
49	26	42	24	15	39	19	System in trail
14	24	35	42	39	42	38	Capsule aboard
32	47	26	19	25	49	27	Helo sighting of primary aircraft
35	14	19	46	28	46	13	Intentional pull off

SURFACE IMPACT PHASE

24	20	38	45	41	27	15	Capsule sighted in water
26	45	40	31	27	43	12	Dropping electronic marker buoy at
							_____ Z
30	39	21	14	47	20	35	Capsule appears to be sinking
50	15	31	36	45	12	41	Capsule sank

SURFACE RECOVERY PHASE

38	16	30	41	14	50	47	Capsule position estimated _____ NM
							from SRU
15	50	41	28	31	25	48	ETA at capsule _____ Z
36	43	34	20	23	34	17	Capsule secured
42	12	24	40	20	47	21	Scuba team retrieved at _____ Z

(REAGIN-82)
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TOP SECRET

CORONA

POST-RECOVERY PHASE

| 12 | 28 | 47 | 29 | 49 | 17 | 23 | Released from support of this mission |

CORONA
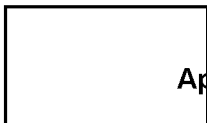
25X1

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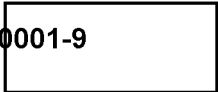
TOP SECRET

25X1

CORONA

DISIC RECORD TIME REPORT

(REAGIN-85)

25X1

1. Purpose: To provide [   ] with a list of time data for the DISIC frames.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each SRV having properly imaged time records and when DISIC is part of payload.

7. Report Due Time: As soon as possible after film is

25X1

received at [   ]

25X1

8. Submitted To: Action: [   ]

9. Contents Format:

    a. Report number and mission number

    b. DISIC record time data

        (1) Mission number, SRV, and "I" for index.

        (2) Rev number and direction, i.e., ascending or descending.

        (3) Frame number (DISIC)

        (4) Vehicle clock time in decimal seconds.

        (5) Delta time in seconds

25X1
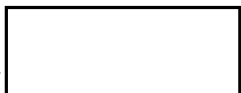
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[   ]

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25X1

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CORONA

25X1

   (6) Vehicle clock time in 29-figure binary

configuration in seconds.

      (7) Date and time of frame exposure.

      (8) Day of mission (first day is day zero).

  10. Sample Cable:

25X1

REAGIN-85   1117-1

    (Data on next page)

25X1

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25X1

25X1

CORONA

(REAGIN-85)

1117-1I   105D   001 215778.283   0.000 01100 . . . 1101   01 12 1971   '08 35 10.086 00

1117-1I   105D   002 ETC.

END OF MESSAGE

TOP SECRET

NOTE: Binary clock time is abbreviated in data line above. In actual message there will
be 29 figures.
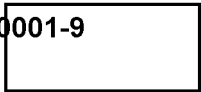
25X1

25X1

CORONA

25X1

CORONA

POST-LAUNCH EPHEMERIS DATA REPORT

(REAGIN-90)

25X1

1. Purpose: To provide [   ] with a "Best Fit" ephemeris after each recovered capsule

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Immediate

6. Submitted For: Each bucket

7. Report Due Time: As soon as possible after recovery of SRV

25X1

8. Submitted To: Action: [   ]

9. Contents Format:

   a. Mission number

   b. Rev span

   c. Ephemeris data:

      Rev Number

      Universal Time

      Geog Lat & Long (Even 5° Increments)

      Altitude (NM)

      Swath Width

      Sun Angle (Deg)

25X1

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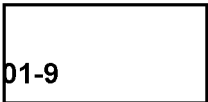
25X1

TOP SECRET

CORONA

25X1

25X1

10. <u>Sample Cable</u>:

REAGIN-90

A.   1116-1

B.   REVS 1 THRU 80

C.   EPHEMERIS DATA

REV NO 1

| 22-27-45 | 80N 160 60.0E | 153.1 | 111.0 | -17 |
| 22-29-25 | 75N 151 51.0E | 141.3 | 102.4 | -18 |

END OF MESSAGE

25X1

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25X1

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TOP SECRET

25X1

CORONA

SRV TAPE RECORDER/EPHEMERIS DATA

(REAGIN-91)

1. Purpose: To provide frame ephemeris information based on panoramic camera center-of-format times recorded on the SRV tape recorder.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each recovered SRV equipped with a tape recorder.

7. Report Due Time: Within 72 hours after delivery of SRV

25X1

tape recorder to [   ]

8. Submitted To: Action: [   ]

9. Contents Format:

a. Mission number

b. Frame ephemeris data line for each pan camera center-of-format containing the following:

(1) Instrument number (1 = forward-looking, 2 = aft-looking)

(2) Rev number

25X1
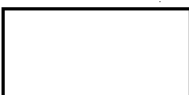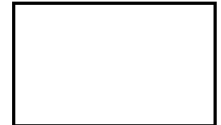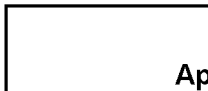
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[   ]

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25X1

25X1
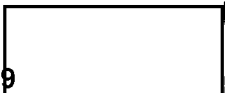
CORONA

(3) Operation descriptor (A = ascending, D =

descending, M = mixed).

(4) Frame number

(5) GMT year, month, day, hour, minutes and

seconds.

(6) Vehicle geodetic latitude and longitude in degrees -

minutes.

(7) Vehicle altitude in feet and velocity in feet per

second.

(8) Solar elevation or sun angle in degrees - minutes

(9) Latitude and longitude of look-point in degrees -

minutes.

(10) Instrument cycle period in seconds

(11) Ground track azimuth in degrees - minutes

(12) Solar azimuth in degrees - minutes

(13) Vehicle geocentric latitude in degrees - minutes

10. Sample Cable:

25X1

REAGIN-91

A. 1117-2

25X1

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25X1

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B. FRAME EPHEM DATA

(1) 2

(2) 299

(3) D

(4) 19

(5) 71 12 20 10 16 29. 037

(6) 59 12. 26N 32 18. 50E

(7) 581298   24587

(8) 45 35

(9) 59 34. 8N 31 52. 6E

(10) 2. 115

(11) 151   18

(12) 36   47

(13) 59   02. 4N

END OF MESSAGE

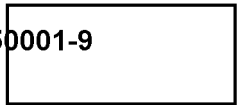NOTE: Above data line, items (1) thru (13), are shown vertically.

Data line will be horizontal in actual Univac 9300 transmissions.

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FIRM PICKUP TIME FOR MISSION PRODUCT

(REAGIN-92)

1. Purpose: To provide interested agencies with the latest

pickup times for mission product

25X1

2. Point of Origin:

3. Classification: Top Secret

4. Precedence: Action: Priority

Info: Priority

5. Submitted For: Whenever the times furnished in the REAGIN-

28 change more than one hour. This report can be submitted in series

and be used after the delivery of mission priorities has begun.

6. Report Due Time: To be transmitted not later than six

hours prior to desired arrival time of the airlift aircraft.

25X1

8. Contents Format:

   a. Mission number

   b. Priority, customer designator, and firm date/time (Z)

of pickup

   c. Number of boxes, cube and weight

   d. Special shipment, number of boxes, cube and weight
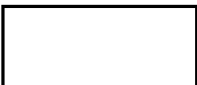
25X1

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25X1

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25X1

e. Remarks

9. Sample Cable:
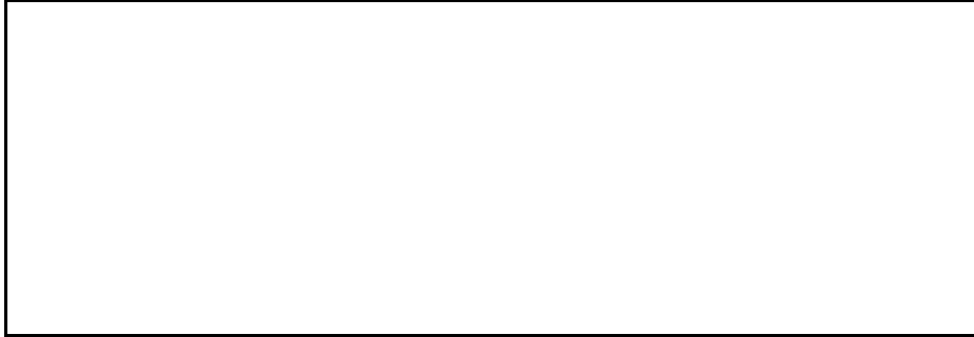
REAGIN-92

A. 1116-1

B. PRIORITY   CUSTOMER   COPIES   DATE/TIME

   1A   A   6   13/1830Z

   2   C   1   13/1915Z
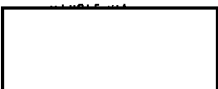
C. EACH COPY 13 BOXES, 26 CUBE, 520 POUNDS

D. 0. NEG 10 BOXES, 20 CUBE, 250 POUNDS

E. N/A

END OF MESSAGE

25X1

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25X1

MONTHLY SCHEDULING MESSAGE

(REAGIN-95)

25X1   1. <u>Purpose</u>: Provide [   ] with the projected six-month

launch schedule monthly

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                 Info: Priority

5. <u>Submitted For</u>: Following six-month period

6. <u>Report Due Time</u>: Last working day of each calendar month

7. <u>Submitted To</u>: [   ]   25X1

8. <u>Contents Format</u>:

   a. As of date

   b. Projected schedule:

     (1) Mission number

     (2) Launch date

     (3) Booster number

     (4) Flight vehicle number

     (5) WTR Operations number

     (6) Mission duration

     (7) Payload number

25X1

CORONA
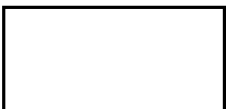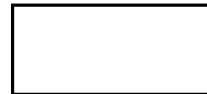
[   ]

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25X1

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CORONA

25X1

        (8) Auxiliary payload

    c. Reason for slippage

25X1

    d. Date of verification with   ☐

25X1

9. <u>Sample Cable</u>:

25X1

REAGIN-95

A. 31 DECEMBER 1969

B.	FEB	MAY	SEP	NOV	JAN	MAR
1.	1109	1110	1111	1112	1113	1114
2.	18 FEB 70	20 MAY 70	2 SEP 70	18 NOV 70	6 JAN 71	3 MAR 71
3.	647	651	648	649	652	650
4.	1655	1656	1658	1657	1659	1660
5.	1703	1704	1705	1708	1707	1706
6.	19 DAY	19 DAY	20 DAY	20 DAY	20 DAY	20 DAY
7.	J-60	J-61	J-62	J-63	J-64	J-65
8.	P-11	P-11		P-11		P-11

    C. NONE

    D. 15 DEC 1969

END OF MESSAGE

25X1
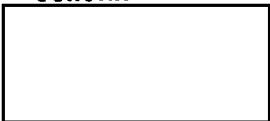
25X1

CORONA

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25X1

CORONA

COURIER TRAVEL MESSAGE

(REAGIN-98)

25X1   1. Purpose: To inform [   ] of time and location that capsule

security courier must be in place

25X1   2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: PRIORITY

Info: PRIORITY

5. Submitted For: Each mission attaining orbit

6. Report Due Time: As soon as aircraft flight schedule is

known

7. Submitted To: [   ]   25X1

8. Contents Format:

a. Mission number

b. Aircraft type and tail number

c. SAAM number

d. Aircraft commander's name

e. Courier aircraft scheduled date and departure time (Z)

from Hickam AFB to ZI

f. Remarks

25X1

CORONA

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25X1

CORONA

9. Sample Cable:

REAGIN-98

A. 1116

B. C-135 - 61 - 4620

C. 1128

25X1   D.

E. 11/1500Z SEP

F. NONE

END OF MESSAGE
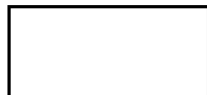
CORONA

25X1

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25X1

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25X1

CORONA

PRELIMINARY MENSURATION PARAMETER FILE

(REAGIN-101)

25X1

1. Purpose: To provide [   ] with ground coordinates of pan frame format to permit correlation of frames of photography to WAC cells.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Immediate

6. Submitted For: Each SRV

7. Report Due Time: Normally within one week of SRV recovery.

8. Submitted To: [   ]

25X1

9. Contents Format:

a. Mission number, e.g., 1117-2

b. Header information for all subsequent data lines concerning camera position, ephemeris, and attitude data.

c. Camera focal length

d. New pass indicator data line, provided for each set of data applicable to a particular pass. Data line contains the following information:

25X1
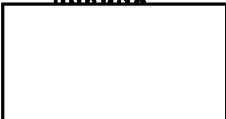
25X1

CORONA

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CORONA

          (1) Pass number and descriptor (ascending or descending), e.g., 005D.

          (2) Date (day - month - year GMT)

    e. Frame data (provided for each frame of film)

          (1) Primary camera position data

              (a) Pass number and descriptor

              (b) Frame number

              (c) GMT time in hours, minutes, and seconds

              (d) Camera nadir latitude and longitude in degrees and minutes.

              (e) Format center latitude and longitude in degrees and minutes.

              (f) Vehicle altitude in feet

              (g) Ground track velocity in feet per second

              (h) Inertial velocity in feet per second

              (i) Ground track azimuth in degrees and minutes

              (j) Inertial azimuth in degrees and minutes

              (k) Solar elevation in degrees and minutes

              (l) Solar azimuth in degrees and minutes

          (2) Primary camera attitude

              (a) Pass number and descriptor

              (b) Frame number

CORONA

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(REAGIN-101)
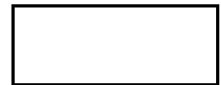
TOP SECRET

(c) Pitch, roll and yaw in degrees

(d) Scan rate (absolute value) in radians per

second.

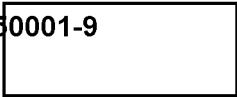10. Sample Cable: Not provided.

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25X1

CORONA

25X1

SNOW COVER STATUS REPORT

(REAGIN-120)

25X1

1. Purpose: To provide [ ] with snow cover data for setting camera slit bias values.

25X1

2. Point of Origin: [ ]

3. Classification: Top Secret

4. Precedence: Priority

5. Submitted For: Each 24-hour period during each mission.

6. Report Due Time: Daily not later than 1800Z.

25X1

7. Submitted To: [ ]

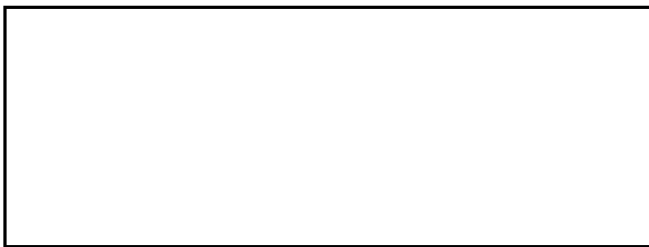8. Contents Format:

   a. Mission number

   b. Rev number of those revolutions which will access areas of four or more inches of snow.

   c. Latitudes where four-inch snow areas begin and end.

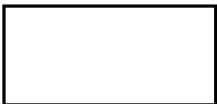   d. Latitudes where four-inch snow areas begin and end repeated.

9. Sample Cable:

25X1

[ ]

25X1

CORONA

[ ]

TOP SECRET

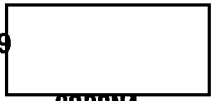EXCLUDED FROM AUTOMATIC REGRADING
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CONTROL NO [ ]
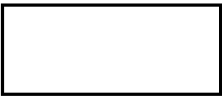COPY _____ OF _____ COPIES
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25X1

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CORONA

A. 1117-2

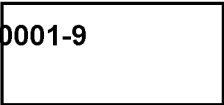| B.	REV	START	STOP	START	STOP
	289	41.0 NA	49.0 NA	41.0 NA	49.0 NA
	290	51.0 NA	44.0 ND	51.0 NA	44.0 ND
	291	48.0 ND	45.0 ND	48.0 ND	45.0 ND

END OF MESSAGE

CORONA

25X1

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25X1

CORONA

25X1

HPA CLIMATOLOGY DATA (GARTER)

(REAGIN-121)

25X1

1. Purpose: To provide [ ] with climatological data for specific high-priority areas listed in REAGIN-11.

25X1

2. Point of Origin: [ ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each mission

7. Report Due Time: Not later than 6 days prior to launch

25X1

8. Submitted To: Action: [ ]

9. Contents Format:

   a. Weather day

   b. Target ID

   c. Latitude/longitude and weather grid I, J coordinates

   d. Single-access table consisting of the following:

      (1) THRESHOLD -- The minimum allowable weather forecast which would permit a high-priority area to be photographed. Weather forecasts are given as the probability that a 12-by-18-nautical-mile WAC cell will be 90 to 100 percent cloud free when photographed.

25X1

CORONA

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25X1

CORONA

(2) SINGLE ACCESS PROB OF LOOK -- The probability that a camera operation will occur, given a certain threshold.

(3) WAC CELL PROB OF SEE -- The probability of obtaining 90 to 100 percent cloud-free photography of a WAC cell area, given a certain threshold.

(4) PT TARGET PROB OF SEE -- The probability of obtaining 90 to 100 percent cloud-free photography of a point target, given a certain threshold.

    e. NA = 1 Table (same as single-access table)

      (1) THRESHOLD (same as 9d(1))

      (2) EXP LOOKS (same as 9d(2))

      (3) WAC CELL PROB ACQ (same as 9d(3))

      (4) PT TARGET PROB ACQ (same as 9d(4))

    f. NA = 2, two-access table (same as 9e)

    g. NA = 3, three-access table (same as 9e)

    h. NA = 4, 5, etc.

NOTE: Above data are provided for each COMIREX target that is within the Communist Bloc and listed on the REAGIN-11.

    10. Sample Cable:

25X1

REAGIN-121

25X1

CORONA

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CORONA

A. 1116

B. GARTER

WEATHER DAY = 80   1A0003   LAT = 625400N

LON = 403800E   WX (I, J) = (79, 82)

THRESHOLD	SINGLE ACCESS PROB OF LOOK	WAC CELL PROB OF SEE	PT TARGET PROB OF SEE
0.00	1.00	0.40	0.40
0.05	0.87	0.38	0.38
0.10	0.74	0.36	0.36
0.15	0.63	0.34	0.34
0.20	0.57	0.33	0.33
0.25	0.51	0.31	0.31
0.30	0.45	0.30	0.30
0.35	0.40	0.28	0.29
0.40	0.36	0.27	0.28
0.45	0.33	0.26	0.27
0.50	0.31	0.25	0.26
0.55	0.30	0.24	0.25
0.60	0.28	0.23	0.24
0.65	0.26	0.22	0.23
0.70	0.21	0.19	0.20
0.75	0.17	0.15	0.16
0.80	0.15	0.14	0.15
0.85	0.14	0.13	0.14
0.90	0.13	0.12	0.13
0.95	0.12	0.11	0.12

NA = 1

THRESHOLD	EXP LOOKS	WAC CELL PROB ACQ	PT TARGET PROB ACQ

(SAME DATA AS ABOVE)

CORONA

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CORONA

NA = 2

		WAC CELL	PT TARGET
THRESHOLD	EXP LOOKS	PROB ACQ	PROB ACQ
0.00	2.00	0.63	0.63
0.05	1.74	0.61	0.61
0.10	1.48	0.59	0.59
0.15	1.27	0.57	0.57
0.20	1.14	0.55	0.55
0.25	1.01	0.53	0.53
0.30	0.89	0.51	0.51
0.35	0.79	0.49	0.50
0.40	0.72	0.47	0.48
0.45	0.67	0.45	0.47
0.50	0.63	0.44	0.45
0.55	0.60	0.43	0.44
0.60	0.56	0.41	0.43
0.65	0.52	0.39	0.41
0.70	0.43	0.34	0.36
0.75	0.34	0.29	0.30
0.80	0.31	0.27	0.28
0.85	0.28	0.25	0.26
0.90	0.26	0.23	0.24
0.95	0.24	0.21	0.22

NA = 3 ETC.
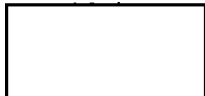
WEATHER DAY = 80   1A0005   LAT = 590400N

LON = 491700E   WX (I, J) = (80, 75)

(SAME DATA FORMAT AS FOR 1A0003)

END OF MESSAGE

NOTE: The vertical format is used as a convenience in typing this manual. Ordinarily the numerical data presented above will be formatted in the horizontal on a 9300/DLT transmission.

25X1

CORONA

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25X1

CORONA

25X1

CORN TARGET FORECASTS
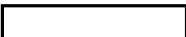
(REAGIN-123)

1. <u>Purpose</u>: To furnish [   ] with   25X1

24-hour planning forecast probability that CORN targets will be 90

to 100 percent cloud free.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

                  Info: Routine

5. <u>Submitted For</u>: Each CORN target listed in REAGIN-44,

as they are accessed during the mission.

6. <u>Report Due Time</u>: Thirty (30) hours prior to the first

domestic pass whenever CORN targets are accessed.

25X1

7. <u>Submitted To</u>: [   ]

8. <u>Contents Format</u>:

    a. Mission number

    b. Rev number, location, name of CORN target accessed,

and forecast percent probability of the area of the target being 90 to

100 percent cloud free.

    c. Remarks

25X1

CORONA

[   ]

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CORONA

25X1

25X1

9. Sample Cable:

TOP SECRET 311510Z SEPT 75 CITE [   ]

25X1

A. 1115

25X1

C. NONE

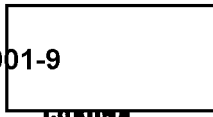TOP SECRET

25X1

25X1

CORONA

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25X1

CORONA

WEATHER FOR PREDICTED IMPACT POINT

(REAGIN-124)

25X1

1. Purpose: To furnish ☐ with weather information for

predicted impact point in case of failure to orbit.

25X1

2. Point of Origin: ☐

3. Classification: Top Secret

4. Precedence: Action: Immediate

Info: Immediate

5. Submitted For: Each launch which fails to orbit, when a

REAGIN-46 message is received by ☐

25X1

6. Report Due Time: As soon as possible after REAGIN-46

is received.

25X1

7. Submitted To: ☐

8. Contents Format:

a. Mission number

b. Valid time of weather information

c. Probable existing weather plus 24-hour forecast

within a 500-NM radius of predicted impact point. These data will be

sent by teletype and will include cloud cover, surface wind direction

and velocity, visibility, restrictions to visibility, and sea surface

conditions.

25X1

CORONA

☐

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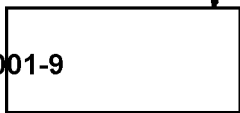DOD DIRECTIVE 5200.10 DOES NOT APPLY

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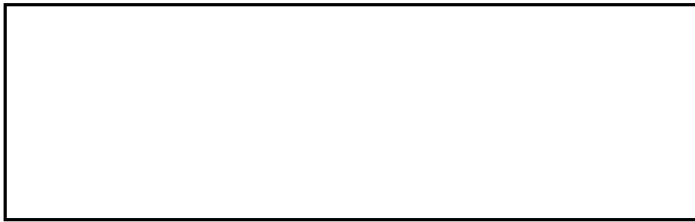
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25X1

CORONA
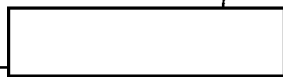
25X1

9.   Sample Cable:

REAGIN-124

A.   1108-1

B.   17/2124Z TO 18/2124Z

C.   AREA 25 PER CENT CLOUD COVERED IN CU BASES

2000 FT, TOP 5000 FT.   ISOLATED TOWERING CU BASES

2000 FT TOPS 15000 FT.   WINDS 090/10 TO 15 KNOTS,

VISIBILITY 10 MILES EXCEPT IN ISOLATED RAIN

SHOWERS 3 - 4 MILES.   SEAS FROM THE SE 2 TO 3 FT,

3 TO 5 SECONDS, SWELLS FROM THE ENE 3 TO 5 FT,

6 TO 8 SECONDS.   NO SIGNIFICANT CHANGE EXPECTED.

END OF MESSAGE

25X1

CORONA

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FLIGHT LINE WEATHER FORECAST

(REAGIN-125)

25X1   1. Purpose: To furnish [   ] with cloud cover

information along specific flight line segments to be used in determining

camera operations.

25X1   2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Immediate

Info: Immediate

6. Submitted For: Each pass briefingas scheduled in

REAGIN-200 message

7. Report Due Time: As prescribed in REAGIN-200

25X1   8. Submitted To: [   ]

9. Contents Format:

a. Mission number and message identifier.

b. Rev number, latitude (or longitude) where forecast

commences, then on succeeding lines (with rev number repeated on

each line) the forecast in the form LLLLHD FF FF FF NNN.

LLLL is the latitude (or longitude) to nearest tenth of a degree where

the forecast commences, H indicates hemisphere (N, S, E, W), D

25X1

CORONA

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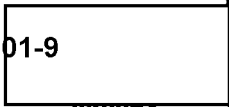DOD DIRECTIVE 5200.10 DOES NOT APPLY

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indicates the direction of motion along the flight line (A for ascending, D for descending). FF is the forecast percent probability that a 12-by-18-NM area will be 90 to 100 percent cloud free. The forecast applies to the LLLL in the preceding line to the LLLL on the same line as the forecast. FF FF FF indicates the west, center, and east thirds of the pass, respectively, for descending passes and east, center, and west for ascending passes. Forecasts will commence two degrees of latitude (or longitude) in advance of, and end two degrees after,

25X1 ☐ Programs. Discontinuous segments of ☐ on the

25X1

same pass will begin with LLL appearing alone on a line followed by the forecast on succeeding lines, as above. The card number (NNN) will appear at the end of each line.

10. Sample Message:

25X1

MSN 1108	REAGIN-125
025 0400NA	001
025 0430NA	50 50 50 002
025 0463NA	50 25 10 003 END
026 0732ND	004
026 0430ND	10 10 10 005

25X1

25X1

CORONA

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25X1

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026 0320ND   90 90 90 006 END

EDT

END OF MESSAGE

CORONA

25X1

25X1

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CORONA

25X1

FLIGHT LINE ASSESSED WEATHER

(REAGIN-127)

1. Purpose: To furnish [   ] an assessment of

cloud cover conditions existing at the time of camera operations for

completed passes.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Immediate

Info: Immediate

6. <u>Submitted For</u>: All camera operations listed in REAGIN-203

7. <u>Report Due Time</u>: As data becomes available, or as outlined

in other special instructions.

8. <u>Submitted To</u>: Action: [   ]

25X1

9. <u>Contents Format</u>:

a. Mission number and message identifier

b. Assessment data in the same format as that used in

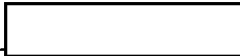the REAGIN-125 message.

10. <u>Sample Message</u>:

25X1

25X1

CORONA

[   ]

CONTROL NO [   ]

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25X1

TOP SECRET

25X1

CORONA

MSN 1108   REAGIN-127

025 0400NA   001

025 0430NA   50 70 90 002

025 0463NA   50 50 50 003 END

026 0732ND   004

026 0430ND   10 50 50 005

026 0320ND   90 90 90 006 END

EDT

END OF MESSAGE

25X1

CORONA

25X1

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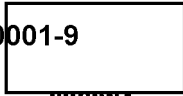DOD DIRECTIVE 5200 10 DOES NOT APPLY

TOP SECRET

CORONA

25X1

SNOW COVER REPORT

(REAGIN-129)

25X1

1. <u>Purpose</u>: To provide [ ] with estimated snow cover in target

areas photographed.

25X1

2. <u>Point of Origin</u>: [ ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

5. <u>Submitted For</u>: Each successful payload recovery.

6. <u>Report Due Time</u>: Immediately following payload recovery.

25X1

7. <u>Submitted To</u>: Action: [ ]

8. <u>Contents Format</u>:

    a. Mission number

    b. Rev numbers and areas within each pass where snow

cover is estimated to be four inches or greater. Areas are denoted by

latitude bands. Snow cover of four inches or greater will cover 50 to

100 percent of the areas reported. No snow cover information is

available for China, hence only an estimate will be provided for this

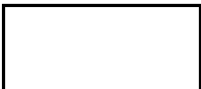area.

    9. <u>Sample Cable</u>:

25X1

[ ]

REAGIN-129

25X1

A. 1117-1

CORONA

[ ]

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CORONA

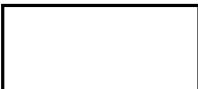B. REV   AREAS

5   70N TO 62N

6   72N TO 60N

7   70N TO 66N, 60N TO 50N

8   70N TO 65N

END OF MESSAGE

25X1

CORONA

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25X1

SATELLITE PHASE PROGRAM DATA

(REAGIN-131)

25X1   1. <u>Purpose</u>: To inform [   ] of weather satellite support

for proposed orbits for next mission.

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Classification</u>: Top Secret

4. <u>Precedence</u>: Action: Priority

Info: Routine

5. <u>Submitted For</u>: Each mission

6. <u>Report Due Time</u>: L-27 days

25X1   7. <u>Submitted To</u>: [   ]

8. <u>Contents Format</u>:

a. Mission number

b. Weather satellite support analysis for proposed

inclination angles, which includes:

(1) A table showing one specific rev of the reconnais-

sance satellite and a number of revs of the weather satellite for

each day on orbit. Data include a letter designator for all weather

satellite revs, nodal times in GMT and local time, and indication

as to whether interrogation is possible on the rev.

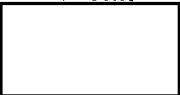25X1   25X1

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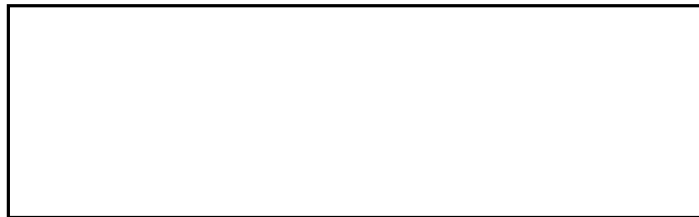
(2) A chart which plots relative timing <u>vs.</u> latitude for those weather satellite revs listed in the table which view a portion of the primary track.

(3) Local time and solar elevation of the area under the reconnaissance satellite as a function of ascending and descending latitude.

9. Sample Cable: *

25X1

REAGIN-131

A. 1111

B. INCLINATION ANGLE 80 DEGREES, 20 DAYS,

8 AND ONE-HALF DAY SYNC.

C. (Data on following pages)

---

* – Example Interpretation:

From the table: Portions of rev 275 of the primary (reconnaissance vehicle) will be viewed by the letter-designated revs of a 1219 Local Sun Time weather satellite.

From the graphical presentation: The lefthand column indicates the time difference in hours between the weather satellite (TS) and the primary satellite (TP) viewing of the latitudes shown in the top row. For primary rev 275, rev K of the weather satellite will view the area between 40° N. and the equator 3 hours prior (TS - TP = -3) to the primary. The sun angle for the primary over those latitudes (bottom row) will be greater than zero from 57° N. southward.
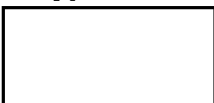
CORONA

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MAP CODE	REV NO.	ASC NODE	TIME		DES NODE	TIME		
B	909	083E	0645Z	1219L	109W	0736Z	0019L	
C	910	058E	0826Z	1219L	135W	0917Z	0019L	
D	911	033E	1008Z	1219L	160W	1058Z	0019L	
E	912	007E	1149Z	1219L	175E	1240Z	0019L	BLIND
F	913	018W	1330Z	1219L	149E	1421Z	0019L	
G	914	043W	1512Z	1219L	124E	1602Z	0019L	
H	915	069W	1653Z	1219L	099E	1744Z	0019L	
I	916	094W	1834Z	1219L	073E	1925Z	0019L	
J	917	119W	2016Z	1219L	048E	2106Z	0019L	
K	918	145W	2157Z	1219L	023E	2247Z	0019L	
L	919	170W	2338Z	1219L	003W	0029Z	0019L	BLIND
M	920	165E	0119Z	1219L	028W	0210Z	0019L	BLIND
N	921	139E	0301Z	1219L	053W	0351Z	0019L	
O	922	114E	0442Z	1219L	078W	0533Z	0019L	
P	923	089E	0623Z	1219L	104W	0714Z	0019L	
PRIMARY	275	030E	0013Z	0215L	160W	0057Z	1416L	

25X1

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(REAGIN-131)

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PRIMARY ASCENDING LATITUDE

TS-TP	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
-18															
-17															
-16															
-15															
-14	D	D	D	D	D	D	D	D	D	D	D	D	D		
-13															
-12								E	E	E	E	E	E		
-11												F	F		
-10															
-9															
-8															
-7															
-6															
-5															
-4															
-3															
-2		K	K	K	K	K									
-1	K														
0						L	L	L	L	L	L				
1										M	M	M	M		
2															
3												N	N		
4															
5													O		
6															
LOC TM	0207	0159	0151	0143	0134	0124	0113	0100	0045	0027	0003	2330	2236		
SUN EL	-52	-55	-58	-60	-62	-62	-62	-60	-57	-54	-50	-45	-39		

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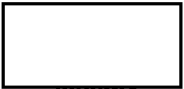
CORONA

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(REAGIN-131)

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PRIMARY DESCENDING LATITUDE

TS-TP	75	70	65	60	55	50	45	40	35	30	25	29	15	10	5
-18															
-17			B	B											
-16			C	C	C	C	C	C							
-15															
-14			D	D	D	D	D	D	D	D	D	D	D	D	D
-13															
-12															
-11															
-10															
-9			G												
-8				H											
-7			H												
-6			I	I	I	I									
-5															
-4			J	J	J	J									
-3							J	J							
-2							K	K	K	K	K	K	K	K	
-1															
0															L
1															
2															
3															
4															
5															
6			P												
LOC TM			1754	1700	1627	1603	1545	1530	1517	1506	1456	1447	1439	1431	1423
SUN EL			-15	-8	-2	3	8	13	18	23	28	32	37	41	45

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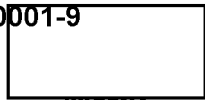
25X1

CORONA

25X1

COMMAND AND CONTROL TIME LINES

(REAGIN-200)

1. Purpose: To provide a time schedule to [   ]

25X1 [   ] for the timely flow of information from one organization

to another prior to each station acquisition for enabling or disabling

the payload system.

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each mission

7. Report Due Time: Daily

8. Submitted To: Action: [   ]

25X1

9. Contents Format:

   a. Mission number

   b. Command and control time line data

      (1) Revolution number of acquisition

      (2) Tracking station name

      (3) Acquisition time (GMT)

      (4) Primary or backup station designation

25X1   (5) [   ] run time (GMT)

25X1   (6) [   ] file time (GMT)

25X1

CORONA

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25X1

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25X1

CORONA

(7) [ ] brief time (GMT)

(8) [ ] brief time (local time: EST or EDT)

(9) [ ] CTP run time (GMT)

25X1

(10) [ ] file time (GMT)

(11) [ ] link time (GMT)

(12) Operational programs

    (a) Emergency program 1 (PR 1)

    (b) Emergency program 2 (PR 2)

25X1

    (c) [ ] program (PR 6)

    (d) Independent DISIC program (DIS IND)

10. Sample Cable:

[ ]

REAGIN-200

A. 1116-2

B. COMMAND AND CONTROL TIME LINE DATA

25X1

25X1

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REV	STA NAME	ACQ TIME GMT	CNTRL REQT	LETHAL RUN GMT	FILE TIME GMT	BRIEF TIME GMT	LOC	CTP RUN GMT	FILE TIME GMT	LINK TIME GMT	PR 1	PR 2	PR 6	DIS IND
175N	GUAM	1523	PRMRY	1438	1428	1408	0908	1353	1353	1343	0	0	*	3
175N		1545	B/U											
175S	BOSS	1553	B/U											
176S	BOSS	1722	PRMRY	1637	1627	1607	1107	1552	1552	1542	1	1	*	9

END OF MESSAGE

(REAGIN-200)

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NRO 25X1

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TOP SECRET

CORONA

CTP DAILY SWATH PLOT

(REAGIN-201)

25X1

1. <u>Purpose</u>: To provide [   ] with a visual computer plot of targets, search and Mapping and Charting areas; their value criteria; location of emergency and DISIC camera operations, if selected; and nominal film consumption data for each revolution of the mission.

25X1

2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

6. <u>Submitted For</u>: Each day of the mission

7. <u>Report Due Time</u>: Daily beginning one day prior to launch and covering a 24-revolution increment.

25X1

8. <u>Submitted To</u>: Action: [   ]

9. <u>Contents Format</u>:

   a. Mission statistics

      (1) Mission number

      (2) Revs covered in this report

      (3) Perigee height and latitude

      (4) Inclination, eccentricity and period

      (5) Date of computer run

25X1

CORONA

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25X1

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CORONA

    b. The following data are provided for each revolution:

        (1) Mission number and rev number

        (2) TCOP and KCOP values

        (3) DP number

        (4) Latitude for each 10-second time interval (function
of vehicle V/h) with longitude being provided for each ninth line of data.

        (5) Sun angle at nadir in degrees

        (6) Graphic display of swath content, bounded by
asterisks. Each line represents a 10-second interval or approximately
40 nautical miles in-track distance. Each HSMA column, denoting
HPA's, Semiannual search, Mapping and charting, and Annual search,
respectively, covers a 6-degree segment of scan (the end columns
are 5-degree scan segments) totaling the full 70-degree scan. The
S and A positions in each column have values ranging from 0.00 to
0.99, if a search cell center falls within the DP and scan sector. The
value is printed out only as an integer representing tenths of the value,
e.g., "9" represents a value of 0.90 to 0.99. The HPA position in
each column will contain an A or B, priority one and two, respectively,
if an HPA falls within the DP and scan sector. The mapping and
charting position in each column will contain a V, W, X, or Y, priori-
ties one thru four, respectively, if a required mapping and charting
WAC cell center falls within the DP and scan sector.

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25X1

CORONA

(7) In column, which lists the numeral "6" for each DP having [   ] punches.

(8) Search value, which is the total value for the full 70 degrees in each DP.

(9) Unacceptable cloud cover probability, PU, but can be acceptable once a camera operation has been selected adjacent to this DP.

(10) Acceptable cloud cover probability, PA, making the DP a candidate for a camera operation.

(11) Percent of HPA covered on this pass, PC.

(12) Percent probability, PR, that the HPA has been successfully photographed prior to this pass.

(13) COMIREX or other ID of HPA.

(14) Film consumption data for DISIC, emergency one, and emergency two programs, and on - off cycle numbers for estimating film consumption of selected camera operations including start - stop losses.

(15) Rise and fade of stations are indicates on right-hand side of printout.

10. <u>Sample Cable</u>: Due to the complexity of the REAGIN-201, a sample message will not be shown in this manual. All data is identified by column headings which are explained in paragraph 9, above.

25X1

CORONA

25X1

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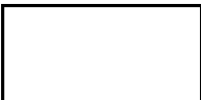
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25X1

CORONA

CTP CAMERA OPERATION SELECTION

(REAGIN-202)

25X1   1. <u>Purpose</u>: To provide [   ] with recommended camera

operations and supporting data explaining how these operations were

selected.

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Immediate

6. <u>Submitted For</u>: Each tracking station acquisition during the

mission.

7. <u>Report Due Time</u>: Message will be sent following each

CTP run, but not later than 75 minutes prior to each tracking station

acquisition.

8. <u>Submitted To</u>: Action: [   ]   25X1

9. <u>Contents Format</u>:

   a. Rev number

   b. TCOP and KCOP values

   c. Control acquisition data: Rev, station, direction, rise

latitude, fade latitude, maximum elevation

   d. Camera operations selected:

25X1

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[   ]

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(1) OP NUM -- Operation number this rev

(2) LAT ON -- Latitude where stereo coverage should begin.

(3) LAT OFF -- Latitude where stereo coverage should end.

(4) The film utilization efficiency, FUE, and total value of the operation.

(5) Pan and DISIC film consumption in cycles of film to be expended, if this camera operation is selected.

(6) Number of cells contained in the operation by requirement category.

(7) DP on and off corresponding to latitude on and off. DP and latitude correspond as shown on the REAGIN-201.

e. Panoramic film consumption data

(1) Number of cycles to be used this rev, if operations are selected as recommended.

(2) Number of cycles expended to date, if operations are selected as recommended.

(3) Remaining film in cycles this mission, if operations are selected as recommended.

f. HPA information

(1) HPA IDENT -- Name or number of HPA

25X1

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25X1

(REAGIN-202)

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(2) PR -- Priority of HPA

(3) TOTAL CELLS (in HPA)

(4) ACCESSED NO PCT -- The number of cells and percentage of HPA accessed this rev.

(5) PROB ACMP REQ ACT -- The desired percent probability of successfully photographing the entire HPA and the actual probability based on previous attempts. A "P" or "F," pass or fail, denotes whether the PROB ACMP ACT was less than - or greater than - the PROB ACMP REQ, respectively, prior to this rev.

(6) AVG PCF REQ ACT -- The average probability cloud free required to photograph on HPA and the actual PCF based on forecasted weather. The "P" or "F," pass or fail, determines whether or not actual PCF was equal to, or greater than, required PCF.

(7) INCREMENT REQ ACT -- The required incremental increase in the probability of successful coverage of the HPA, PROB ACMP, and the actual incremental increase in PROB ACMP. The P or F determines whether or not the threshold, INCREMENT REQ, was exceeded or not by INCREMENT ACT.

(8) HPA EXTENSIONS -- This section lists the initial and final DP's which cover the HPA. For large, irregularly

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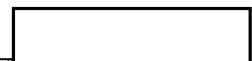
shaped HPA's, it is possible that more than one contiguous segment

of DP's will contain the HPA on a single rev: therefore, the space is

provided.

    g. DP summary table

      (1) TCOP and KCOP values

      (2) Camera operation selection and mode, e.g., B1

is basic selection, M1 is a merge between operations, E1 is an

extended operation, and *1 is an HPA-selected camera operation.

      (3) DP number

      (4) Sun angle in degrees

      (5) Average value per frame of film expended for DP

      (6) WXPT -- Weather point or latitude where there is

a change in weather data.

      (7) Code indicating checks made by computer program

in arriving at recommended camera operations.

      (8) Cell count per DP by category (i.e., HPA,

semiannual search, mapping and charting, and annual search) and

total cells in DP.

      (9) Weather forecast, in percent probability of a WAC

cell being 90 to 100 percent cloud free, listed by left, center, and

right third of the swath.

25X1
CORONA
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25X1

(REAGIN-202)

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(10) HPA identifier, when applicable

(11) Graphical representation of average value per frame of film for each DP. The "X" represents search value. The "O" is a mandatory value for HPA's which pass all HPA thresholds. This value is equal to TCOP.

10. <u>Sample Cable</u>: Due to the complexity of the REAGIN-202, a sample message will not be shown in this manual. All data is identified by column headings which are explained in paragraph 9, above.
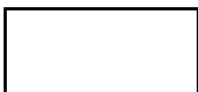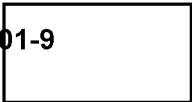
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25X1

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COMMAND CONTROL DECISION

(REAGIN-203)

1. Purpose: To notify

25X1

of the decision for any flight line or series of flight lines.

25X1

2. Point of Origin:

3. Classification: Top Secret

4. Precedence: Action: Immediate

                   Info: Priority

5. Submitted For: Each decision that is made for camera

operations.

6. Report Due Time: Will be at [   ] not later than 45

25X1
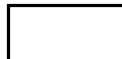
minutes before command control time. [   ] file time will be not

25X1

later than 55 minutes before command control time.

7. Submitted To:

25X1
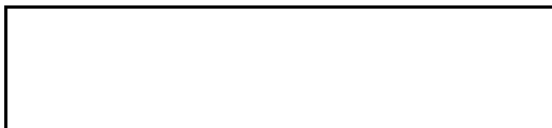
8. Contents Format:

   a. Mission number

   b. Control segment (from rev/station to rev/station)

   c. Rev number, latitude on, and latitude off for all camera

operations, with this data repeated to ensure accuracy in transmission.

Use the word "none" after the rev number if no camera operations

are selected for that rev.

25X1

CORONA

25X1

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DOD DIRECTIVE 5200.10 DOES NOT APPLY
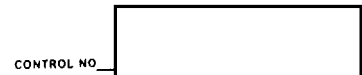
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d. Emergency program number to be used in the event of failure to successfully enable the primary command system. If no emergency program is desired, use the word "none." If emergency program is desired, specify "yes" or "no" by rev.

e. Independent DISIC specification. Should read "yes," "no," or "N/A."

f. Remarks. If there are no remarks, use the word "none." Use this paragraph for bi-spectral decisions, if applicable.

9. Sample Cable:
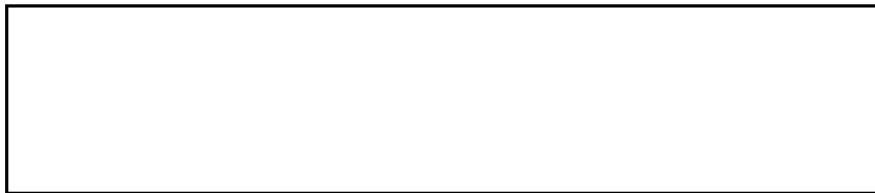
REAGIN-203

A. 1116-1

B. FROM REV 46 [   ] TO REV 48 [   ]

C.

REV	LAT ON	LAT OFF	REV	LAT ON	LAT OFF
46	241.6	237.4	46	241.6	237.4
46	231.8	224.8	46	231.8	224.8
47	305.2	307.3	47	305.2	307.3
48N	NONE				

D. EMERGENCY PROGRAM ONE

REV 46 YES

REV 47 NO

REV 48N NO

CORONA
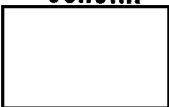
TOP SECRET
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CHANGE 1, 10 Nov 70

25X1

(REAGIN-20)
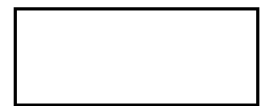
TOP SECRET

25X1

CORONA

E. YES

F. NONE

END OF MESSAGE

25X1

CORONA

25X1

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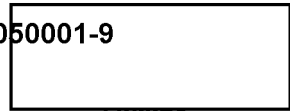
CORONA

H-TIMER PROGRAM DATA (CLOVER)

(REAGIN-204)

1. Purpose: To provide the nominal camera operations data, which is programmed on the H-timer, to be used with the CORONA Targeting Program (CTP).

25X1

2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Immediate (Priority for premission only)

6. Submitted For: Duration of each mission

7. Report Due Time:

   a. Premission covering the entire mission

   b. Daily, covering the next two days of the mission

8. Submitted To: [   ] (premission only)   **25X1**

9. Contents Format:

   a. Mission number

   b. Rev span covered by this message

   c. H-timer data - Part I

      (1) Rev number

      (2) Program number (0 = Station acquisition program;   **25X1**

1 or 2 = Emergency Program 1 or 2; 6 = [   ] program; 10 =
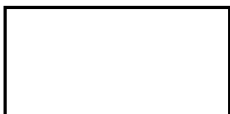
25X1   Intermix step; 11 = DISIC program).

CORONA

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CONTROL NO _____
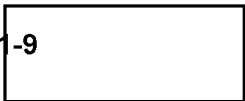COPY _____ OF _____ COPIES
PAGE ___1___ OF ___4___ PAGES

25X1

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CORONA

25X1

25X1

25X1

25X1

25X1

25X1

25X1

    (3) Operation number of program each rev

    (4) Program name, i.e., station name, OPER for emergency programs,

    (5) In-orbit-times for

        (a) Program O, station acquisition and station fade.

        (b) Program 1 and 2, camera on and off punches

        (c) Program 6, first and last [   ] punches

        (d) Program 10, brush 14 punch

        (e) Program 11, camera on and off punches

    (6) [   ] punch increment size in seconds for program 6, maximum elevation in degrees for program 0.

    (7) Flag, "9," to indicate that [   ] is followed by a redundant "off."

    (8) In-orbit-times

        (a) Paragraph (5), above, is repeated for programs 0, 6, and 10.

        (b) For programs 1 or 2, times to latitudes of first and last usable stereo frames of photography are listed.

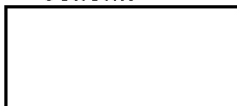   (c) For program 11, times to first and last latitude covered by two DISIC frames are listed.

CORONA

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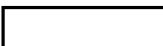PAGE 2 OF 4 PAGES

25X1

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CORONA

(9) Latitudes corresponding to

(a) Station acquisition and station fade, program 0

(b) First and last usable stereo frames, programs

1 and 2.

(c) First and last [   ] punch, program 6   25X1

(d) Brush 14 punch, program 10

(e) First and last point covered by two DISIC

frames, program 11.

(10) Sequence number of data line

d. H-timer data for station acquisitions – Part II
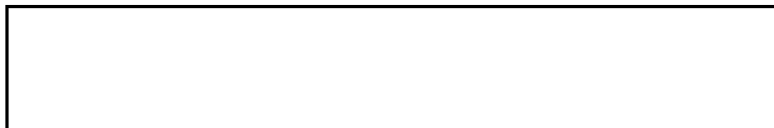
(1) Rev number and vehicle direction of travel

(2) Name of tracking station

(3) Primary or backup designation

(4) H-timer data, same as Part I, paragraphs 9c(5)(a),

9c(6), 9c(5)(a) repeated, and 9c(9)(a).

10. Sample Cable:

[   ]   25X1

REAGIN-204

A. 1116-2

B. CTP CLOVER DATA REV 107 THRU 134

25X1

CORONA

25X1

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25X1

CTP POSTPASS DATA

(REAGIN-205)

25X1   1. Purpose: To provide [   ] with a daily status report of

mission performance to include film consumption, area coverage

summaries, and predicted coverage of high-priority targets.

25X1   2. Point of Origin: [   ]

3. Transmission of Message: UNIVAC 9300/DLT

4. Classification: Top Secret

5. Precedence: Action: Priority

6. Submitted For: Each mission

7. Report Due Time: Daily, covering previous day of operation

25X1   8. Submitted To: Action: [   ]

9. Contents Format:

    a. Mission number

    b. Cycles of pan film consumed on pad prior to launch

    c. Mission resources summary

        (1) Total pan film used (frames)

        (2) Total number of main camera operations

25X1   (3) Total percent of [   ] used thus far in the

mission

        (4) Total percent of film used thus far in the mission

25X1

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25X1

CORONA

25X1

(5) TCOP summary, listing maximum, minimum and average TCOP values thus far this mission.

    d. Coverage summary

(1) Requirement category, i. e., 6-month, 12-month, HPA, extraordinary, mapping and charting.

(2) Total number of unique cells photographed to date

(3) Percent of 6-month and 12-month category unique cells photographed which were overdue.

(4) Total number of redundant cells photographed to date.

(5) Total number of unique cells photographed having unconfirmed probabilities of accomplishment (based on assessed weather data) of 85 to 100 percent, 70 to 84 percent, and 0 to 69 percent.

    e. Age distribution of 6-month search cells

(1) Age categories are in 30-day increments from one thru 900, plus a "greater than 900" category. For each category, the following data is provided:

(a) Age category, e.g., 91 - 120

(b) Total number of cells in age category

(c) Total cells (redundant) of age category photographed to date

25X1

CORONA

25X1

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CORONA

(d) Total unique cells and percent by age category photographed.

(e) Number of unique cells photographed in each weather category (assessed weather), i. e. , 85 to 100, 84 to 70, and 0 to 69 percent probability of having been photographed under 90 percent or better cloud-free conditions.

(2) Totals line shows total cell count for all age categories. Percentages are now expressed as percentage of total number of cells in 6-month search areas.

(3) Total overdue line totals those cells in age categories greater than 6 months, i. e. , all age categories subsequent to the 151- to 180-day age group. Percentages remain based on total number of cells in 6-month search areas.

f. Age distribution of 12-month search cells

(1) Same as paragraph 9. e. (1).

(2) Total line shows total cell count for all age categories. Percentages are now expressed as percentage of total number of cells in 12-month search areas.

(3) Total overdue line totals those cells in age categories greater than 12 months, i. e. , all age categories subsequent to the 331- to 360-day age group. Percentages remain based on total number of cells in 12-month search areas.
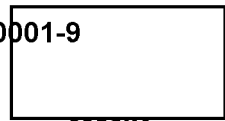
CORONA

25X1

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g. Main camera operation summary

   (1) Rev number

   (2) Operation number within a rev

   (3) Number of pan frames of film used during the

operation.

   (4) TCOP value in effect for the operation

   (5) Mean cloud-free probability forecast and

assessment in percent.

   (6) Stereo latitudes on and off for camera operation

   (7) Cell count by category of cells photographed by the

operation.

h. High-priority area (HPA) summary

   (1) Sequential number of HPA

   (2) HPA identification (name or number)

   (3) Total number of cells in HPA

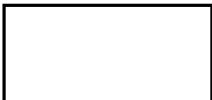   (4) Current cumulative probability that HPA has been

successfully photographed.

   (5) HPA thresholds, i.e., desired probability of

accomplishment, required cloud-free forecast, and required

incremental increase in probability of accomplishment.

   (6) Number of cells in HPA photographed uniquely to

date.

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(7) Total number of HPA cell sightings (redundant)

(8) Total number of accesses (total or partial) this mission.

(9) Total number of accesses (total or partial) to date. These are geometric accesses and not photographic attempts.

(10) The total number of attempts to photograph the HPA to date and the rev number on which each attempt was made.

10. <u>Sample Cable</u>: Not provided. Explanation of data is found in paragraph 9, above.

TOP SECRET

25X1

CORONA

VERIFIED PAN CAMERA OPERATIONS DATA (EPISOD)

(REAGIN-206)

25X1   1. Purpose: To provide [   ] with latest orbital elements

and verified pan camera operations data from start of mission to

present.

25X1   2. Point of Origin: [   ]

     3. Transmission of Message: UNIVAC 9300/DLT

     4. Classification: Top Secret

     5. Precedence: Action: Immediate

     6. Submitted For: Duration of each mission

     7. Report Due Time: Daily with mission summary at

completion of mission

25X1   8. Submitted To: Action: [   ]

     9. Contents Format:

         a. Mission number and date and time of launch (GMT)

         b. Rev span being reported

         c. The following data are presented in groups of 16 revs

            (1) Breakwell orbital elements

                (a) Semi-major axis in feet

                (b) Eccentricity

                (c) Inclination in radians

25X1   (d) Argument of perigee in radians
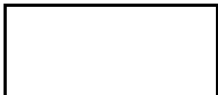
CORONA

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25X1

CORONA

(e) Rev number

(f) C-decay divided by two-pi

(g) Longitude of ascending node in radians

(h) Non-recycled system time at ascending node

(i) Breakwell Bessel function XI/XO

(2) Pan camera operations data

(a) Rev number

(b) In-orbit times to latitudes of first and last usable frames of forward-looking camera.

(c) In-orbit times to latitudes of first and last usable frames of aft-looking camera.

(d) In-orbit times to latitudes of first and last usable stereo frames.

(e) Pan camera film consumption in frames for forward-looking and aft-looking cameras.
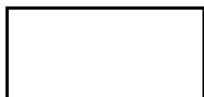
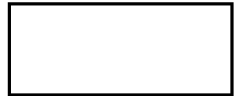10. Sample Cable:
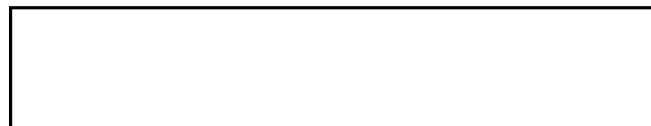
REAGIN-206

A. 1117-1, 012207 DEC 71

CORONA

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25X1

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25X1

CORONA

B. EPISOD DATA REV 1 - 37

0.21599200E 08   0.76474659E-02   0.14486227E 01   0.27902117E 01 1

0.19648744E-11   0.88733119E 00   0.82642250E 05   0.65713835E 00

0.21599200E 08   0.76566823E-02   0.14486227E 01   0.27857780E 01 2

0.19648744E-11   0.49837333E 00   0.87960187E 05   0.65756160E 00

0.21599200E 08   0.77953823E-02   0.14486227E 01   0.27237034E 01 16

0.19648744E-11   0.13361349E 01   0.16241156E 06   0.66383028E 00

1	1472	1516	1459	1510	1472	1510	21	21
2	1512	1632	1498	1625	1512	1625	63	63
2	1731	1826	1718	1820	1731	1820	49	49
16	2094	2147	2081	2141	2094	2141	28	28

NOTE: Data repeated for next 16 revs.

END OF MESSAGE

25X1

25X1

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25X1

CORONA

NOTIFICATION OF INACTIVE STATION ACQUISITIONS

(REAGIN-207)

1. <u>Purpose</u>: To provide [   ]   25X1

with 24-hour advance notification of those passes, by rev number,

for which there are no requirements or anticipated camera operations

for the following 24 hours. Such notification will permit optimum

management and computer maintenance and decrease communications

traffic.

25X1

    2. <u>Point of Origin</u>: [   ]
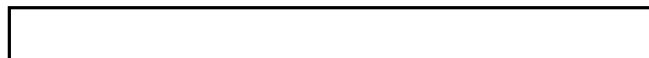
    3. <u>Classification</u>: Top Secret

    4. <u>Precedence</u>: Routine

    5. <u>Submitted For</u>: The 24-hour period beginning at 1800Z the

following day.

    6. <u>Report Due Time</u>: Not later than 1700Z and at least 24 hours

in advance of the period being reported.

    7. <u>Submitted To</u>: Action: [   ]   25X1

    8. <u>Contents Format</u>:

        a. Mission number

        b. Rev span being reported. This must include all revs

and portions of revs within the control segments being reported.

        c. List of acquisitions, by rev number and station, which

will not require enabling of the primary command system.   25X1

25X1

CORONA

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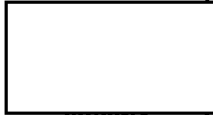
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25X1

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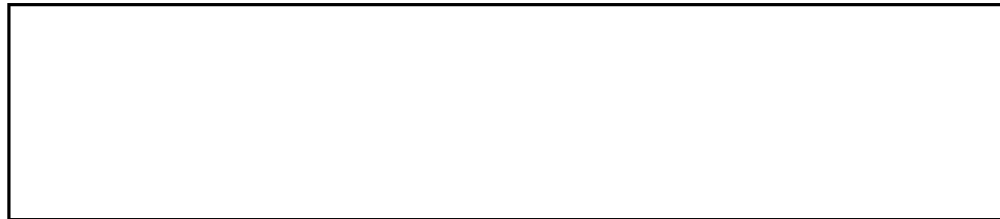   d. Remarks

9.   Sample Cable:

25X1

    REAGIN-207

    A. 1117-2

    B. 178S THRU 192N

25X1

             END OF MESSAGE
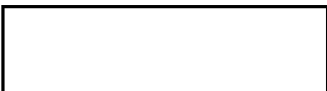
25X1

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25X1

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CHANGE 1, 10 Nov 70

PREMISSION STATISTICS

(REAGIN-208)

25X1   1. <u>Purpose</u>: To provide [   ] with premission statistical

data regarding status of semiannual and annual search satisfaction.

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Routine

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: Normally one day prior to launch

25X1   8. <u>Submitted To</u>: [   ]

9. <u>Contents Format</u>:

   a. Mission number

   b. Mission requirement summary. Lists total number

of WAC cells and corresponding area in square nautical miles of each

of the following categories:

     (1) Search areas

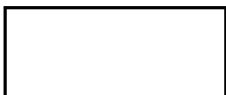   (a) Quarterly

       (b) Semiannual

       (c) Annual

     (2) High-priority areas

25X1   (a) Extraordinary

TOP SECRET
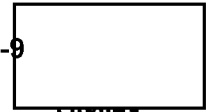
        (b) Priority 1

        (c) Priority 2

    (3) Mapping areas

        (a) Priority 1

        (b) Priority 2

        (c) Priority 3

        (d) Priority 4

    (4) Equatorial belt area

    (5) DISIC area

    (6) Total nonredundant

    (c) Search age distribution for current mission and for next scheduled mission, assuming current mission does not fly. Age distribution is expressed in 30-day increments from one to 900 days, with the last two increments being "greater than 900" and "never seen." Cells listed as "never seen" are also included in the "greater than 900" age increment. "Never seen" is arbitrarily chosen as those cells not seen 90 to 100 percent cloud free since 1 February 1966. For each age category there is provided the number of cells having this age (by search category) and its percent of the total semiannual or annual search cells.

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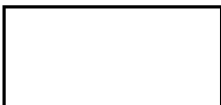
PAGE___2___ OF___3___ PAGES

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CORONA

d. The following data is provided for the current mission and for the next scheduled mission, assuming current mission does not fly:

(1) Total area for semiannual and annual search expressed in total number of cells and percentage (always 100 percent). Also provided is the average cell age in months and the standard deviation in months.

(2) Total area overdue for semiannual and annual search expressed in number of cells and percentage of total search. Also provided is the average age of overdue cells in months and the standard deviation in months.

(3) Total area for those semiannual and annual cells which are not overdue, by cell count and percent, with average age and standard deviation, both expressed in months.

e. Age distribution graphs are provided with percent of total cells plotted against age in five-day increments for each of the following requirement categories:

(1) Semiannual search, current mission

(2) Annual search, current mission

(3) Semiannual search, next mission

(4) Annual search, next mission

10. Sample Cable: Not provided due to complexity of message.

25X1

CORONA

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EMERGENCY PROGRAM AREA REQUIREMENTS

(REAGIN-209)

25X1

1. <u>Purpose</u>: To provide [ ] with WAC cell boundaries of

all areas requiring coverage by Emergency Programs One and/or

Two.

25X1

2. <u>Point of Origin</u>: [ ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: Not later than 14 days prior to launch

25X1

8. <u>Submitted To</u>: Action: [ ]

9. <u>Contents Format</u>:

    a. Mission number

    b. Emergency Program One requirements

       (1) Latitude bands, corresponding to any WAC cell

centers which are contained in any areas requiring Emergency Pro-

gram One coverage. Latitude band increments are listed in 0.2 - degree

increments North to South.

       (2) Longitudes of westernmost and easternmost WAC

cell centers, which define the longitude limits of the required areas

25X1

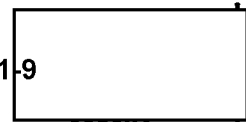along a particular latitude band. Longitudes are listed in east-limit/

CORONA

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CORONA

25X1

25X1

west-limit sets with as many sets as there are areas to define along a single latitude band.

    c. Emergency Program Two is formatted the same as Emergency Program One.

    10. <u>Sample Cable</u>:

    TO: ACTION: PRIORITY: [   ]

25X1

    CITE: [   ]

    REAGIN-209

    A. MISSION 1116

    B. EMERGENCY PROGRAM ONE REQUIREMENTS

78.30	55.70	55.70	71.90	72.21	128.71	129.35
78.10	59.61	61.37	132.81	141.70		
77.90	60.46	63.17	130.70	141.70		
77.70	61.37	61.37	132.81	141.70		

    END OF PROGRAM ONE

    C. EMERGENCY PROGRAM TWO REQUIREMENTS

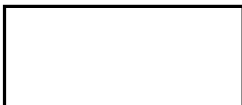|						
73.30	54.82	54.82				
59.30	28.70	29.90	32.30	32.90		
59.10	23.92	23.92	26.12	26.67	27.22	33.27
59.10	48.67	50.32				

    END OF PROGRAM TWO

       END OF MESSAGE
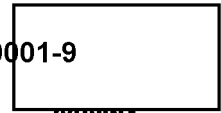
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HPA SUMMARY AND LOOK AHEAD

(REAGIN-210)

25X1   1. <u>Purpose</u>: To provide [   ] with an HPA summary

consisting of the REAGIN-11 list of high-priority areas, the

REAGIN-221 HPA thresholds, and the revs on which each HPA will

be accessed.

25X1   2. <u>Point of Origin</u>: [   ]

3. <u>Transmission of Message</u>: UNIVAC 9300/DLT

4. <u>Classification</u>: Top Secret

5. <u>Precedence</u>: Action: Priority

6. <u>Submitted For</u>: Each mission

7. <u>Report Due Time</u>: First report is due not later than one day

prior to launch. An updated report is provided on day one of the

mission. Additional reports are provided as required and upon [   ]   25X1

request.

25X1   8. <u>Submitted To</u>: [   ]

9. <u>Contents Format</u>:

   a. Mission number

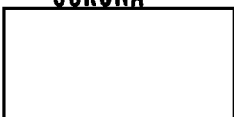   b. Date and time of computer run

   c. HPA predicted contacts for revs 1 - 304

     (1) Sequential number of HPA

25X1   (2) HPA ID name or number

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(3) Number of WAC cells comprising the HPA

(4) Thresholds

    (a) Desired probability of accomplishment

    (b) Required cloud-free forecast

    (c) Required incremental increase in probability of accomplishment

(5) Total number of accesses or partial accesses during this mission

(6) Listing of rev number and percent of HPA accessed for each access during the mission.

10. Sample Cable:

TO: ACTION: PRIORITY: _____

CITE: _____

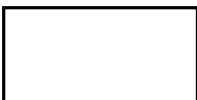REAGIN-210

A. 1117

B. DATE 18/11/71   TIME 14 57

(Data on following page)

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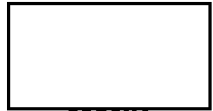EXCLUDED FROM AUTOMATIC REGRADING
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HPA PREDICTED CONTACTS   REVS 1-304

	HPA		THRESHOLDS			ACCESSES						
	IDENT	TOTAL				MSN						
NO	NO	CELLS	PROB	PCF	INCR	TOT	REV	PCT	REV	PCT	REV	PCT
1		19	0.99	0.65	.0	6	9	31	25	89	122	89
2		26	0.99	0.60	.100	5	8	15	24	46	121	100
3		19	0.85	0.65	.150	5	41	15	57	73	154	73
4		27	0.85	0.70	.150	5	9	11	25	77	122	77
5		22	0.85	0.65	.150	6	89	81	105	18	186	81
6		10	0.85	0.65	.150	5	9	10	25	70	122	70
7		20	0.85	0.65	.150	5	90	100	187	100	203	25
8		32	0.85	0.60	.150	5	39	84	136	84	152	21
9		24	0.85	0.55	.150	5	90	66	106	54	187	20
10		35	0.85	0.70	.0	5	8	65	105	94	82	218
11		1	0.85	0.30	.150	3	74	100	171	100	284	100

ETC.

END OF MESSAGE
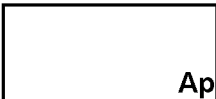
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CORONA

CTP THRESHOLDS FOR HPA'S

(REAGIN-221)

25X1

1. Purpose: To provide [   ] with threshold inputs to the CORONA Targeting Program (CTP) for those high-priority areas (HPA's) listed on REAGIN-11.

25X1

2. Point of Origin: [   ]

3. Classification: Top Secret

4. Precedence: Action: Priority

5. Submitted For: Each mission and as required for changes to a previously submitted REAGIN-221.

6. Report Due Time: Initial REAGIN-221 must be submitted not later than 5 days prior to launch. Subsequent messages are sent as changes are required.

25X1

7. Submitted To: Action: [   ]

8. Contents Format:

a. HPA identification (COMIREX ID, SOC ID, country, polygon defined by latitude/longitude, WAC cell ID, etc.)
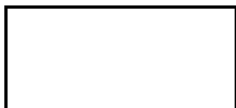
b. Desired probability of accomplishment

c. Required cloud-free forecast

d. Required incremental increase in probability of accomplishment.

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9. <u>Sample Cable</u>:

TO: ACTION: PRIORITY:

CITE:

REAGIN-221

A. 1117

B. TARGET THRESHOLDS

TGT ID	THRESHOLDS		
	ACCOMP	PCA	INCR
	99	40	15
	85	45	15
	85	55	14
	85	60	13
S. CHINA	85	40	01
	85	50	12
N. VIETNAM	85	40	07
495-12-06	85	65	15

ETC.

END OF MESSAGE

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MISCELLANEOUS

(REAGIN-X)

1. <u>Purpose</u>: To allow exchange of operational information between interested organizations, where such an exchange is not covered in specific numbered reports.

2. <u>Point of Origin</u>: As required

3. <u>Classification</u>: As required

4. <u>Precedence</u>: As required

5. <u>Submitted For</u>: As required

6. <u>Report Due Time</u>: As required

7. <u>Submitted To</u>: As required. [ ] must be either action or info addressee on all REAGIN-X messages. When [ ] is an info addressee, avoid an immediate precedence whenever possible.

8. <u>Contents Format</u>:

   Narrative type message. When referring to a specific mission, the mission number will appear in paragraph A.

9. <u>Sample Cable</u>:

   TO: ACTION: IMMEDIATE: [ ]

   [ ]

   REAGIN-X

   A. 1117-1

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B.   PLEASE PROVIDE DETAILS REGARDING H-TIMER

PROBLEM AND PROGNOSIS FOR LAUNCH DATE.

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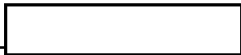
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