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(Including Cover Sheet)

14 000403590

CORONA "J" FLIGHT DATA BOOK

SYSTEM NO. J-17

VEHICLE NO. 1607

MISSION NO. 1015-2

CAMERA NOS. 138 & 141

Prepared by: [redacted]

Checked by: _____

Approved by: _____

Approved by: [redacted] Manager



[redacted]

[redacted]

LOGGED
5 JAN 1965

TABLE OF CONTENTS



[redacted]

SYSTEM NO. J-17
VEHICLE NO. 1607
MISSION NO. 1015-2
CAMERA NOS. 138 & 141



[redacted]

GENERAL FLIGHT DATA:

Master Camera Serial No. 138

Slave Camera Serial No. 141

Stellar Index "A" Serial No. D 61/61/61

Stellar Index "B" Serial No. D 58/58/58

Launch Date DECEMBER 19, 1964

Reactivation Date DECEMBER 28, 1964

Reactivation Orbit No. 137

Orbital Parameters: (Rev. 145)

Period 90.1996 Min. Eccentricity 0.016977

Perigee 98.141 NM Perigee Latitude 47.144 Deg. N

Apogee 220.27 NM Inclination Angle 74.96 Deg. N

Recovery Orbit No. 175

Recovery Date DECEMBER 30, 1964

REMARKS:

[redacted]

SYSTEM NO. J-17
VEHICLE NO. 1607
MISSION NO. 1015-2
CAMERA NOS. 138 & 141



CYCLE PERIOD DATA:

PRE-FLIGHT CYCLE PERIODS:

| V/H Ramp Level | V/H Ramp Amplitude | Cycle Period Seconds | | Time Up Ramp Sec |
|---|---|---|---|---|
| | | Master | Slave | |
| 6 | 4 | 4.490 | 4.456 | 346 |
| 4 | 5 | 2.197 | 2.174 | 1909 |
| 4 | 5 | 3.737 | 3.692 | 490 |
| 4 | 5 | 3.675 | 3.630 | 533 |
| 4 | 5 | 2.208 | 2.182 | 2132 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

IN-FLIGHT CYCLE PERIODS

| V/H Ramp Level | V/H Ramp Amplitude | Cycle Period Seconds | | Orbit No. | Time Up Ramp Sec |
|---|---|---|---|---|---|
| | | Master | Slave | | |
| 6 | 4 | 4.566 | 4.570 | 88 | 346 |
| 4 | 5 | 2.240 | 2.240 | 142 | 1909 |
| 4 | 5 | 3.840 | 3.835 | 152 | 490 |
| 4 | 5 | 3.768 | 3.768 | 167 | 533 |
| 4 | 5 | 2.250 | 2.245 | 174 | 2132 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SYSTEM NO. J-17
VEHICLE NO. 1607
MISSION NO. 1015-2
CAMERA NOS. 138 & 141

[redacted]



PRELIMINARY CLOCK CORRELATION:

| | ORBIT | CORRECTED SYSTEM TIME | CLOCK TIME | DIFFERENCE |
|---|---|---|---|---|
| * | 142 | 69208.980 | 47855.662 | |
| | 152 | 35453.039 | 100,499.745 | |
| | 158 | 69484.531 | 134,531.252 | |
| | 167 | 30219.576 | 181,666.319 | |
| | 174 | 69659.469 | 221,106.230 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

* DUE TO THE VEHICLE DEACTIVATION, POWER WAS INTERRUPTED AND A CONTINUOUS CLOCK CORRELATION IS IMPOSSIBLE. ORBIT 142 WILL THEN BE THE STARTING POINT FOR PART TWO OF THE MISSION.

[redacted]

[redacted]

A. 1015-2
B. DRY
C. PERFORMANCE ESTIMATE

| REV | PROG | CAM NO. | PAN FR. | SI FR | LAT. ON | LAT. OFF | TIME ON ZD | TIME ON ST | TUR NO | DUR SEC. | SOLAR EXPOS. SEC ON | SOLAR EXPOS. SEC OFF | ON | OFF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT-WRAP | | 138 | 4 | 0 | | | | | | | | | | |
| CUT-WRAP | | 141 | 4 | | | | | | | | | | | |
| 83 | 5 1 | 138 | 94 | 14 | 261 | 247 | 25 | 8247 | 6 4 | 1405 | 229 | 4 19 | 4.3 | 3.9 |
| 83 | 5 1 | 141 | 93 | | 261 | 247 | 25 | 8247 | 6 4 | 1405 | 229 | 3 18 | 3.0 | 2.8 |
| 84 | 5 1 | 138 | 33 | 04 | 253 | 248 | 2513 | 805 | 6 4 | 1539 | 77 | 12 17 | 4.1 | 3.9 |
| 84 | 5 1 | 141 | 33 | | 254 | 249 | 2513 | 805 | 6 4 | 1539 | 77 | 11 17 | 2.9 | 2.8 |
| 84 | 5 2 | 138 | 41 | 06 | 246 | 240 | 2513 | 920 | 6 4 | 1654 | 92 | 20 26 | 3.9 | 3.8 |
| 84 | 5 2 | 141 | 40 | | 246 | 240 | 2513 | 920 | 6 4 | 1654 | 92 | 19 25 | 2.7 | 2.7 |
| 84 | 5 3 | 138 | 66 | 10 | 233 | 223 | 2514 | 117 | 6 4 | 1851 | 147 | 33 42 | 3.8 | 3.8 |
| 84 | 5 3 | 141 | 66 | | 234 | 224 | 2514 | 117 | 6 4 | 1851 | 147 | 32 42 | 2.7 | 2.7 |
| 85 | 5 1 | 138 | 33 | 04 | 258 | 253 | 2519 | 139 | 6 4 | 1449 | 82 | 6 12 | 4.3 | 4.1 |
| 85 | 5 1 | 141 | 33 | | 259 | 254 | 2519 | 139 | 6 4 | 1449 | 82 | 5 11 | 3.0 | 2.9 |
| 85 | 5 2 | 138 | 28 | 04 | 243 | 238 | 2519 | 393 | 6 4 | 1703 | 64 | 23 27 | 3.9 | 3.9 |
| 85 | 5 2 | 141 | 28 | | 243 | 239 | 2519 | 393 | 6 4 | 1703 | 64 | 22 26 | 2.8 | 2.7 |
| 85 | 5 3 | 138 | 95 | 14 | 234 | 219 | 2519 | 532 | 6 4 | 1842 | 217 | 32 46 | 3.8 | 3.9 |
| 85 | 5 3 | 141 | 93 | | 234 | 220 | 2519 | 532 | 6 4 | 1842 | 217 | 31 45 | 2.7 | 2.7 |
| 86 | 2 1 | 138 | 48 | 07 | 261 | 254 | 2524 | 514 | 6 4 | 1411 | 118 | 3 11 | 4.3 | 4.1 |
| 86 | 2 1 | 141 | 48 | | 262 | 255 | 2524 | 514 | 6 4 | 1411 | 118 | 2 10 | 3.0 | 2.9 |
| 86 | 2 2 | 138 | 35 | 05 | 249 | 243 | 2524 | 727 | 6 4 | 1624 | 81 | 17 22 | 4.0 | 3.9 |
| 86 | 2 2 | 141 | 35 | | 249 | 244 | 2524 | 727 | 6 4 | 1624 | 81 | 16 21 | 2.8 | 2.7 |
| 87 | 6 1 | 138 | 142 | 20 | 258 | 237 | 2530 | 000 | 6 4 | 1474 | 327 | 7 28 | 4.1 | 3.7 |
| 87 | 6 1 | 141 | 141 | | 259 | 238 | 2530 | 000 | 6 4 | 1474 | 327 | 6 27 | 2.9 | 2.6 |
| 88 | 3 0 | 138 | 10 | 01 | 138 | 141 | 2534 | 256 | 6 4 | 307 | 47-65-62 | | 8.6 | 8.5 |
| 88 | 3 0 | 141 | 10 | | 136 | 139 | 2534 | 256 | 6 4 | 307 | 47-66-64 | | 6.0 | 5.9 |
| 88 | 3 1 | 138 | 42 | 06 | 234 | 227 | 2535 | 808 | 6 4 | 1859 | 97 | 32 38 | 3.9 | 3.9 |
| 88 | 3 1 | 141 | 42 | | 235 | 228 | 2535 | 808 | 6 4 | 1859 | 97 | 31 37 | 2.8 | 2.7 |
| 89 | 1 0 | 138 | 5 | LENS STOW FOR DEACTIVATION | | | | | | | | | | |
| 89 | 1 0 | 141 | 5 | LENS STOW FOR DEACTIVATION | | | | | | | | | | |

NOTE - THE VEHICLE AND ORBITAL TIMER WERE DEACTIVATED ON REV 89 AT [redacted]. THE VEHICLE AND TIMER WERE REACTIVATED AT [redacted] ON REV 137. THE OPERATIONS TAKEN AFTER REV 137 WERE THOSE NOMINALLY PROGRAMMED FOR AN ORBITAL TIMER SUBCYCLE 48 REVS EARLIER. IN OTHER WORDS REV 138 CORRESPONDS TO ORBITAL TIMER SUBCYCLE 90, REV 139 CORRESPONDS TO ORBITAL TIMER SUBCYCLE 91, ETC.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 142 | 9 1 | 138 | 25 | 03 | 240 | 237 | 2869 | 109 | 4 5 | 1857 | 58 | 24 28 | 4.0 | 4.0 |
| 142 | 9 1 | 141 | 25 | | 241 | 237 | 2869 | 109 | 4 5 | 1857 | 58 | 23 27 | 2.8 | 2.8 |
| 145 | 1 1 | 138 | 36 | 05 | 261 | 256 | 2885 | 015 | 4 5 | 1538 | 83 | 1 7 | 4.0 | 3.9 |
| 145 | 1 1 | 141 | 36 | | 262 | 257 | 2885 | 015 | 4 5 | 1538 | 83 | 1 6 | 2.8 | 2.7 |
| 146 | 1 1 | 138 | 29 | 04 | 261 | 257 | 29 | 4026 | 4 5 | 1540 | 66 | 1 5 | 4.0 | 3.9 |
| 146 | 1 1 | 141 | 29 | | 262 | 258 | 29 | 4026 | 4 5 | 1540 | 66 | 0 5 | 2.8 | 2.7 |
| 146 | 1 2 | 138 | 30 | 05 | 249 | 245 | 29 | 4222 | 4 5 | 1735 | 65 | 14 19 | 3.8 | 3.7 |
| 146 | 1 2 | 141 | 30 | | 250 | 246 | 29 | 4222 | 4 5 | 1735 | 65 | 14 18 | 2.6 | 2.6 |

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[redacted]

[redacted]

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147 | 1 | 1 | 138 | 106 | 15 | 256 | 241 | 29 | 9521 | 4 | 5 | 1626 | 239 | 7 | 23 | 3.9 | 3.7 |
| 147 | 1 | 1 | 141 | 106 | | 257 | 242 | 29 | 9521 | 4 | 5 | 1626 | 239 | 6 | 22 | 2.7 | 2.6 |
| 148 | 1 | 1 | 138 | 93 | 13 | 261 | 248 | 2914848 | | 4 | 5 | 1545 | 213 | 1 | 15 | 4.0 | 3.8 |
| 148 | 1 | 1 | 141 | 93 | | 262 | 249 | 2914848 | | 4 | 5 | 1545 | 213 | 0 | 15 | 2.8 | 2.6 |
| 148 | 1 | 2 | 138 | 151 | 22 | 243 | 221 | 2915138 | | 4 | 5 | 1834 | 339 | 21 | 44 | 3.7 | 3.8 |
| 148 | 1 | 2 | 141 | 151 | | 244 | 222 | 2915138 | | 4 | 5 | 1834 | 339 | 20 | 43 | 2.6 | 2.7 |
| 148 | 1 | 3 | 138 | 54 | 07 | 202 | 306 | 2915760 | | 4 | 5 | 2457 | 141 | 63 | 73 | 4.2 | 4.5 |
| 148 | 1 | 3 | 141 | 54 | | 203 | 305 | 2915760 | | 4 | 5 | 2457 | 141 | 63 | 72 | 3.0 | 3.2 |
| 149 | 9 | 1 | 138 | 149 | 22 | 258 | 237 | 2920311 | | 4 | 5 | 1599 | 336 | 4 | 27 | 3.9 | 3.7 |
| 149 | 9 | 1 | 141 | 148 | | 259 | 238 | 2920311 | | 4 | 5 | 1599 | 336 | 3 | 27 | 2.7 | 2.6 |
| 150 | 6 | 1 | 138 | 93 | 13 | 256 | 243 | 2925756 | | 4 | 5 | 1636 | 209 | 7 | 21 | 3.8 | 3.7 |
| 150 | 6 | 1 | 141 | 94 | | 257 | 244 | 2925756 | | 4 | 5 | 1636 | 209 | 6 | 20 | 2.7 | 2.6 |
| 151 | 7 | 1 | 138 | 99 | 14 | 254 | 240 | 2931200 | | 4 | 5 | 1671 | 223 | 9 | 24 | 3.8 | 3.7 |
| 151 | 7 | 1 | 141 | 99 | | 255 | 241 | 2931200 | | 4 | 5 | 1671 | 223 | 8 | 23 | 2.7 | 2.6 |
| 152 | 9 | 0 | 138 | 12 | 02 | 138 | 141 | 2935390 | | 4 | 5 | 451 | 48-72-69 | | | 7.2 | 7.0 |
| 152 | 9 | 0 | 141 | 12 | | 137 | 140 | 2935390 | | 4 | 5 | 451 | 48-73-70 | | | 5.0 | 4.9 |
| 152 | 9 | 1 | 138 | 98 | 14 | 206 | 309 | 2937346 | | 4 | 5 | 2408 | 248 | 59 | 76 | 4.0 | 4.5 |
| 152 | 9 | 1 | 141 | 97 | | 207 | 308 | 2937346 | | 4 | 5 | 2408 | 248 | 58 | 75 | 2.8 | 3.2 |
| 161 | 8 | 1 | 138 | 51 | 07 | 261 | 254 | 2985196 | | 4 | 5 | 1582 | 117 | 0 | 8 | 3.9 | 3.8 |
| 161 | 8 | 1 | 141 | 51 | | 262 | 255 | 2985196 | | 4 | 5 | 1582 | 117 | -0 | 7 | 2.7 | 2.7 |
| 162 | 8 | 1 | 138 | 30 | 04 | 261 | 257 | 30 | 4205 | 4 | 5 | 1584 | 68 | 0 | 5 | 3.9 | 3.8 |
| 162 | 8 | 1 | 141 | 30 | | 262 | 258 | 30 | 4205 | 4 | 5 | 1584 | 68 | -0 | 4 | 2.7 | 2.7 |
| 162 | 8 | 2 | 138 | 52 | 08 | 254 | 247 | 30 | 4322 | 4 | 5 | 1700 | 115 | 8 | 16 | 3.8 | 3.7 |
| 162 | 8 | 2 | 141 | 52 | | 255 | 248 | 30 | 4322 | 4 | 5 | 1700 | 115 | 7 | 15 | 2.7 | 2.6 |
| 164 | 8 | 1 | 138 | 59 | 08 | 261 | 253 | 3015026 | | 4 | 5 | 1589 | 134 | 0 | 9 | 3.9 | 3.8 |
| 164 | 8 | 1 | 141 | 59 | | 262 | 254 | 3015026 | | 4 | 5 | 1589 | 134 | -0 | 8 | 2.7 | 2.7 |
| 164 | 8 | 2 | 138 | 183 | 26 | 243 | 216 | 3015317 | | 4 | 5 | 1879 | 415 | 20 | 49 | 3.7 | 4.0 |
| 164 | 8 | 2 | 141 | 183 | | 244 | 217 | 3015317 | | 4 | 5 | 1879 | 415 | 19 | 48 | 2.6 | 2.8 |
| 165 | 9 | 1 | 138 | 129 | 19 | 260 | 242 | 3020456 | | 4 | 5 | 1612 | 291 | 1 | 21 | 3.9 | 3.7 |
| 165 | 9 | 1 | 141 | 129 | | 261 | 243 | 3020456 | | 4 | 5 | 1612 | 291 | 1 | 21 | 2.7 | 2.6 |
| 166 | 8 | 1 | 138 | 55 | 08 | 261 | 254 | 3025850 | | 4 | 5 | 1596 | 126 | 0 | 9 | 3.9 | 3.8 |
| 166 | 8 | 1 | 141 | 54 | | 262 | 254 | 3025850 | | 4 | 5 | 1596 | 126 | -0 | 8 | 2.8 | 2.7 |
| 166 | 8 | 2 | 138 | 112 | 16 | 250 | 234 | 3026030 | | 4 | 5 | 1776 | 253 | 13 | 30 | 3.8 | 3.8 |
| 166 | 8 | 2 | 141 | 112 | | 251 | 235 | 3026030 | | 4 | 5 | 1776 | 253 | 12 | 29 | 2.7 | 2.7 |
| 167 | 9 | 0 | 138 | 12 | 01 | 138 | 141 | 3030156 | | 4 | 5 | 494 | 48-73-70 | | | 7.2 | 7.0 |
| 167 | 9 | 0 | 141 | 12 | | 137 | 140 | 3030156 | | 4 | 5 | 494 | 48-74-71 | | | 5.0 | 4.9 |
| 167 | 9 | 1 | 138 | 100 | 15 | 257 | 243 | 3031328 | | 4 | 5 | 1666 | 226 | 5 | 20 | 3.9 | 3.7 |
| 167 | 9 | 1 | 141 | 100 | | 258 | 244 | 3031328 | | 4 | 5 | 1666 | 226 | 4 | 20 | 2.7 | 2.6 |
| 168 | 6 | 1 | 138 | 87 | 12 | 201 | 313 | 3037598 | | 4 | 5 | 2527 | 234 | 64 | 80 | 4.2 | 4.8 |
| 168 | 6 | 1 | 141 | 86 | | 202 | 312 | 3037598 | | 4 | 5 | 2527 | 234 | 63 | 79 | 3.0 | 3.4 |
| 172 | 7 | 1 | 138 | 29 | 04 | 242 | 237 | 3058621 | | 4 | 5 | 1916 | 66 | 21 | 25 | 3.9 | 3.9 |
| 172 | 7 | 1 | 141 | 29 | | 242 | 238 | 3058621 | | 4 | 5 | 1916 | 66 | 20 | 24 | 2.7 | 2.8 |
| 172 | 7 | 2 | 138 | 27 | 04 | 222 | 217 | 3058927 | | 4 | 5 | 2222 | 65 | 42 | 46 | 4.0 | 4.1 |
| 172 | 7 | 2 | 141 | 27 | | 222 | 218 | 3058927 | | 4 | 5 | 2222 | 65 | 41 | 45 | 2.9 | 2.9 |
| 173 | 7 | 1 | 138 | 29 | 04 | 234 | 229 | 3064156 | | 4 | 5 | 2043 | 66 | 29 | 34 | 3.9 | 3.9 |
| 173 | 7 | 1 | 141 | 28 | | 234 | 230 | 3064156 | | 4 | 5 | 2043 | 66 | 29 | 33 | 2.8 | 2.8 |
| 174 | 5 | 1 | 138 | 56 | 08 | 236 | 227 | 3069535 | | 4 | 5 | 2013 | 126 | 27 | 36 | 3.8 | 3.8 |
| 174 | 5 | 1 | 141 | 55 | | 236 | 228 | 3069535 | | 4 | 5 | 2013 | 126 | 26 | 35 | 2.7 | 2.7 |

AAA BB C DDD EEE FF GHH GII JJKKKKK LLMM NNNN OOO PP QQ RRR SSS

A REVOLUTION NUMBER
B PROGRAM NUMBER

[redacted]

[redacted]

C OPERATION NUMBER [redacted]
D PAN. CAMERA SERIAL NUMBER (MASTER IS EVEN, SLAVE IS ODD)
E EST. NO OF PAN FRAMES, BASED ON COUNTER READINGS INFLITE
F EST. NUMBER OF STELLAR/INDEX FRAMES
G QUADRANT
H EST. LATITUDE OF FIRST FORMAT CENTER IN PASS
I EST. LATITUDE OF LAST FORMAT CENTER IN PASS
J ZULU DATE
K SYSTEM TIME IN SECONDS (GMT)
L FMC PROGRAMMER REFERENCE LEVEL
M FMC PROGRAMMER AMPLITUDE LEVEL
N EST. TIME UP RAMP IN SECONDS TO OPERATE COMMAND
O EST. SECONDS DURATION OF OPERATION, BETWEEN ON AND OFF
P SOLAR ELEVATION AT ITEM H
Q SOLAR ELEVATION AT ITEM I
R EST. MILLISECONDS EXPOSURE TIME AT ITEM H
S EST. MILLISECONDS EXPOSURE TIME AT ITEM I

FRAMES TO FEET,PAN X 2.645 STELLAR X 0.099,INDEX X 0.198

NOTE - T/M DATA INDICATES NORMAL INSTRUMENT OPERATION

J- 17 RAMP R- 6 A- 4

| R= 0.3269 | | A= 0.1304 | RAMP |
|---|---|---|---|
| TIME | PERIOD | CPS | GAV |
| 0 | 5.089 | 0.1965 | 0.01777 |
| 100 | 5.055 | 0.1978 | 0.01789 |
| 200 | 4.955 | 0.2018 | 0.01825 |
| 300 | 4.800 | 0.2083 | 0.01884 |
| 400 | 4.602 | 0.2173 | 0.01965 |
| 500 | 4.376 | 0.2285 | 0.02067 |
| 600 | 4.137 | 0.2417 | 0.02186 |
| 700 | 3.896 | 0.2567 | 0.02322 |
| 800 | 3.662 | 0.2731 | 0.02470 |
| 900 | 3.441 | 0.2906 | 0.02628 |
| 1000 | 3.238 | 0.3088 | 0.02793 |
| 1100 | 3.052 | 0.3276 | 0.02963 |
| 1200 | 2.838 | 0.3523 | 0.03187 |
| 1300 | 2.659 | 0.3761 | 0.03402 |
| 1400 | 2.512 | 0.3982 | 0.03601 |
| 1500 | 2.395 | 0.4176 | 0.03777 |
| 1600 | 2.306 | 0.4337 | 0.03923 |
| 1700 | 2.242 | 0.4460 | 0.04034 |
| 1800 | 2.203 | 0.4539 | 0.04105 |
| 1900 | 2.187 | 0.4572 | 0.04135 |
| 2000 | 2.194 | 0.4558 | 0.04122 |
| 2100 | 2.224 | 0.4497 | 0.04067 |
| 2200 | 2.277 | 0.4391 | 0.03972 |
| 2300 | 2.356 | 0.4245 | 0.03839 |
| 2400 | 2.461 | 0.4063 | 0.03675 |
| 2500 | 2.596 | 0.3852 | 0.03484 |
| 2600 | 2.762 | 0.3620 | 0.03274 |
| 2700 | 2.962 | 0.3376 | 0.03053 |
| 2800 | 3.162 | 0.3162 | 0.02860 |

[redacted]

[redacted]

| | | | |
|---|---|---|---|
| 2900 | 3.358 | 0.2978 | 0.02694 |
| 3000 | 3.572 | 0.2800 | 0.02532 |
| 3100 | 3.801 | 0.2631 | 0.02380 |
| 3200 | 4.040 | 0.2475 | 0.02239 |
| 3300 | 4.281 | 0.2336 | 0.02113 |
| 3400 | 4.514 | 0.2215 | 0.02004 |
| 3500 | 4.725 | 0.2116 | 0.01914 |
| 3600 | 4.899 | 0.2041 | 0.01846 |
| 3700 | 5.022 | 0.1991 | 0.01801 |
| 3800 | 5.084 | 0.1967 | 0.01779 |

J- 17 RAMP R- 4 A- 5

R= 0.3518 A= 0.1219 RAMP

| TIME | PERIOD | CPS | GAV |
|---|---|---|---|
| 0 | 4.350 | 0.2299 | 0.02079 |
| 100 | 4.326 | 0.2311 | 0.02091 |
| 200 | 4.258 | 0.2349 | 0.02124 |
| 300 | 4.150 | 0.2410 | 0.02179 |
| 400 | 4.010 | 0.2493 | 0.02255 |
| 500 | 3.849 | 0.2598 | 0.02350 |
| 600 | 3.674 | 0.2722 | 0.02462 |
| 700 | 3.495 | 0.2862 | 0.02588 |
| 800 | 3.317 | 0.3015 | 0.02727 |
| 900 | 3.146 | 0.3178 | 0.02875 |
| 1000 | 2.986 | 0.3349 | 0.03029 |
| 1100 | 2.837 | 0.3525 | 0.03188 |
| 1200 | 2.663 | 0.3756 | 0.03397 |
| 1300 | 2.514 | 0.3978 | 0.03598 |
| 1400 | 2.390 | 0.4184 | 0.03784 |
| 1500 | 2.291 | 0.4366 | 0.03949 |
| 1600 | 2.214 | 0.4517 | 0.04085 |
| 1700 | 2.179 | 0.4589 | 0.04151 |
| 1800 | 2.179 | 0.4589 | 0.04151 |
| 1900 | 2.179 | 0.4589 | 0.04151 |
| 2000 | 2.179 | 0.4589 | 0.04151 |
| 2100 | 2.179 | 0.4589 | 0.04151 |
| 2200 | 2.190 | 0.4567 | 0.04131 |
| 2300 | 2.257 | 0.4430 | 0.04007 |
| 2400 | 2.347 | 0.4260 | 0.03853 |
| 2500 | 2.461 | 0.4063 | 0.03675 |
| 2600 | 2.600 | 0.3846 | 0.03479 |
| 2700 | 2.764 | 0.3618 | 0.03272 |
| 2800 | 2.925 | 0.3418 | 0.03092 |
| 2900 | 3.081 | 0.3246 | 0.02936 |
| 3000 | 3.248 | 0.3079 | 0.02785 |
| 3100 | 3.423 | 0.2922 | 0.02642 |
| 3200 | 3.602 | 0.2776 | 0.02511 |
| 3300 | 3.780 | 0.2646 | 0.02393 |
| 3400 | 3.948 | 0.2533 | 0.02291 |
| 3500 | 4.097 | 0.2441 | 0.02207 |
| 3600 | 4.219 | 0.2370 | 0.02144 |
| 3700 | 4.304 | 0.2323 | 0.02101 |
| 3800 | 4.346 | 0.2301 | 0.02081 |

[redacted]

NOTE - THE ABOVE RAMP DATA REPRESENT THE BEST APPROXIMATION OF HOW THE RAMP PERFORMED IN-FLIGHT AND ARE NOT THE PRE-FLIGHT CALIBRATIONS FOR THESE RAMPS.

PAYLOAD J-17 MISSIONS 1015-1 TIME CORRELATION

ORDER FIT 1

| SYS TIME I/P | CL TIME I/P | COMP SYS TM | DELTA ST | REV | STA |
|---|---|---|---|---|---|
| 37345.257 | 102153.10490 | 37345.26380 | -0.00584 | 9 | 1 |
| 76952.907 | 141760.76090 | 76952.90970 | -0.00180 | 16 | 1 |
| 37526.884 | 188734.74490 | 37526.88180 | 0.00311 | 25 | 1 |
| 72101.597 | 223309.46590 | 72101.59410 | 0.00388 | 31 | 1 |
| 38229.084 | 275836.96690 | 38229.08180 | 0.00320 | 41 | 1 |
| 72574.358 | 310182.25090 | 72574.35700 | 0.00190 | 47 | 1 |
| 33457.124 | 357465.02990 | 33457.12410 | 0.00089 | 56 | 1 |
| 73025.176 | 397033.09590 | 73025.18000 | -0.00308 | 63 | 1 |
| 33482.972 | 443890.89890 | 33482.97110 | 0.00180 | 72 | 1 |
| 73391.545 | 483799.48790 | 73391.55000 | -0.00408 | 79 | 1 |

A0=-0.64807815260 05 A1= 0.9999997464690 00
SIGMA=0.00310 NO. POINTS= 10
RATIO OF CLOCK TIME TO SYS TIME= 0.1000000253530 01

PAYLOAD J-17 MISSIONS 1015-1 TIME CORRELATION

ORDER FIT 2

| | | | | | |
|---|---|---|---|---|---|
| 37345.257 | 102153.10490 | 37345.25960 | -0.00166 | 9 | 1 |
| 76952.907 | 141760.76090 | 76952.90820 | -0.00026 | 16 | 1 |
| 37526.884 | 188734.74490 | 37526.88260 | 0.00231 | 25 | 1 |
| 72101.597 | 223309.46590 | 72101.59600 | 0.00191 | 31 | 1 |
| 38229.084 | 275836.96690 | 38229.08460 | 0.00034 | 41 | 1 |
| 72574.358 | 310182.25090 | 72574.35990 | -0.00096 | 47 | 1 |
| 33457.124 | 357465.02990 | 33457.12620 | -0.00122 | 56 | 1 |
| 73025.176 | 397033.09590 | 73025.18080 | -0.00388 | 63 | 1 |
| 33482.972 | 443890.89890 | 33482.96960 | 0.00333 | 72 | 1 |
| 73391.545 | 483799.48790 | 73391.54580 | 0.00010 | 79 | 1 |

A0=-0.64807829070 05 A1= 0.9999998606380 00
A2=-0.1948717952232D-12
SIGMA=0.00192 NO. POINTS= 10

PAYLOAD J-17 VEH 1607 MISSION 1015-2

ORDER FIT 1

| SYS TIME I/P | CL TIME I/P | COMP SYS TM | DELTA ST | REV | STA |
|---|---|---|---|---|---|
| 69208.948 | 47855.66190 | 69208.97970 | -0.03070 | 142 | 1 |
| 35453.099 | 100499.74490 | 35453.03890 | 0.06106 | 152 | 1 |
| 69484.512 | 134531.25190 | 69484.53050 | -0.01757 | 158 | 1 |
| 30219.562 | 181666.31890 | 30219.57620 | -0.01330 | 167 | 1 |
| 69659.469 | 221106.22990 | 69659.46940 | 0.00051 | 174 | 1 |

A0= 0.2135333930D 05 A1= 0.9999995485900 00
SIGMA=0.02932 NO. POINTS= 5

[redacted]

RATIO OF CLOCK TIME TO SYS TIME= 0.1000000451410 01

PAYLOAD J-17 VEH 1607 MISSION 1015-2

ORDER FIT 2

| | | | | | |
|---|---|---|---|---|---|
| 69208.948 | 47855.66190 | 69208.96550 | -0.01654 | 142 | 1 |
| 35453.099 | 100499.74490 | 35453.04790 | 0.05205 | 152 | 1 |
| 69484.512 | 134531.25190 | 69484.54380 | -0.03089 | 158 | 1 |
| 30219.562 | 181666.31890 | 30219.58170 | -0.01870 | 167 | 1 |
| 69659.469 | 221106.22990 | 69659.45590 | 0.01408 | 174 | 1 |

A0= 0.21353286660 05 A1= 0.10000005261OD 01

A2=-0.36218597329190-11

SIGMA=0.02734 NO. POINTS= 5

[redacted]