



MISSILE: LV-2A No. 432 and S-01B No. 1611

LAUNCHED: 1344:54.81 PST, 25 February 1965, Complex PALC-1, Pad 1

Capt Smathers & Capt Bellia LAUNCH CONTROLLERS:

COUNTDOWN HISTORY:

First Countdown: The first countdown was initiated at 0315 PST on 19 February 1965 and proceeded to phase IV of terminal countdown when the launch was aborted due to a problem in the S-OlB lifeboat system.

Second Countdown: The second countdown was initiated at 0245 PST on 25 February 1965 and proceeded to liftoff with one hold being imposed at T-45 minutes to adjust the countdown for the optimum launch time.

FLIGHT PERFORMANCE:

| | Event | Predicted Time | Actual Time |
|----|---|---|---|
| 1. | Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 60.00 151.11 160.11 166.61 172.10 415.90 | 60.16 150.01 158.94 166.03 170.91 413.09 |

Both Thor and Agena Airborne Systems performed satisfactorily.

| | Event | Predicted | Actual |
|----|--|---|---|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,303 25,758 200.8 99.5 90.02 75.00 | 12,273 25,771 204.3 98.3 90.07 75.08 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdowns:

- 1. An amplifier circuit in the blockhouse landline monitoring equipment for S-OlB guidance gas temperature malfunctioned and was replaced.
- 2. The communications system in the AFWTR console in the blockhouse malfunctioned and was replaced.

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

Control No. WWZDE 5-19 P.2 miss 5 (PK).

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PROGRAM 241

MISSILE: LV-2A No. 414 and SS-01A No. 1608

LAUNCHED: 1300:44.13 FST, 15 Jan 65, Complex 75-3, Pad 5

LAUNCH CONTROLLERS: Capt Sanders & Lt Sobel

COUNTDOWN HISTORY: The countdown was initiated at 0605 PST on 15 Jan 1965 and proceeded to liftoff with no holds imposed. This was the first countdown to employ a shorter revised procedure. Two tasks (orbital stage RF checkout and orbital stage guidance and flight control checkout) were performed prior to the countdown initiation. The length of the countdown was three hours and forty-five minutes shorter than previous countdowns.

FLIGHT PERFORMANCE:

| | <u>Event</u> | Fredicted Time | Actual Time |
|----|--|---|---|
| 1. | Solid Separation MICO (Command for) VECO Separation Complete Ignition Burnout (Shutdown by VM) | 65.00 147.58 156.58 163.08 168.58 413.41 | 65.08 150.25 159.08 166.33 171.30 414.43 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| Event | Fredicted | Actual |
|---|--|---|
| 3. MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,281 25,813 234.78 100.26 90.67 75.00 | 12,300 25,823 236.6 99.6 90.67 74.95 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following problems were encountered with AGE during the countdown.

- 1. During Task 8 (Solid Motor Arming) the LMSC fuel sniffer was wet and had to be dried out.
- 2. During Task 6 (Payload checkout) improper positioning of the Vandenberg tracking station antenna delayed checkout of the SS-01/ beacon.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 159th orbit. Both air recoveries were successful.

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10



Control No. VIZDE 5-8



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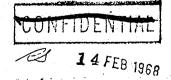
- 3. One television monitor system malfunctioned. It was not regained at the countdown.
- 4. The umbilical mast failed to retract at liftoff.

PENANKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 31st orbit and the second on the 145th orbit. Both air recoveries were successful.

Control No. WWZDE 5-19

PH Note: this is Page 2 of # 1096 65-13 CORONA 92/KH-4A 1017-182





MISSILE: SLV-2 No. 419 and SS-01A No. 2701

22 March 1965

LAUNCHED: 1029:47.69 PST, 9 March 1965, Complex 75-1, Pad 2

LAUNCH CONTROLLERS: Capt Haber & Lt Johnson

COUNTDOWN HISTORY: The countdown was initiated at 0410 PST on 9 March 65 and proceeded to liftoff with no holds being imposed. Due to a delay encountered in payload mating (R-1 day) the vehicle was not raised to the vertical position until one hour before the start of the countdown. It was therefore necessary to complete final rigging of the umbilical lanyards during the countdown.

FLIGHT PERFORMANCE:

| | Event | Predicted Time | Actual Time |
|----|--|---|--|
| 1. | MECO (Command for) VECO Separation Ignition Burnout (Shutdown by VM) | 149.28 158.30 167.90 202.45 43 6. 86 | 147.81 156.78 165.92 199.74 432.71 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

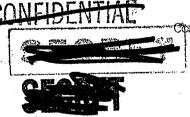
| | Event | F | redicted | Actual |
|----|--|-------|---|--|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (Final) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | (fps) | 10,877 24,245 506.06 504.14 103.52 69.76 | 10,826 Not Available 507.33 504.06 103.57 69.91 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

- 1. During Task 11, two minor propellant leaks occurred in the IMSC ACE.
- 2. Calibration of DAC igniter test sets required more time than normal but did not delay the countdown.

REMARKS: There were no recoverable capsules in the payload of this vehicle. This was the first launch under program 770.

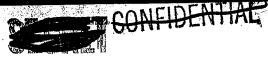
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MISSILE: LV-2A No. 429 and SS-01B No. 1612

LAUNCHED: 1311:17.54 PST, 25 Mar, 1965, Complex 75-3, Pad 4

LAUNCH CONTROLLERS: Capt Sanders & Capt MacNab

COUNTDOWN HISTORY: The countdown was initiated at 0605 PST on 25 March 1965 and proceeded to liftoff with one hold being imposed at T-16 minutes for range clearance (a train in the hazard corridor).

FLIGHT PERFORMANCE:

| 1 111 | Event | Predicted Time | Actual Time |
|-------|---|---|---|
| 1. | Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 65.00 149.44 158.44 164.94 170.44 416.06 | 65.25 148.50 157.43 164.64 169.40 414.63 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| | Trant | <u>Predicted</u> | Actual |
|----|---|---|--|
| 3. | Event MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 11,813 25,655 143.64 99.68 88.97 96.00 | 11,792 25,665 149.98 101.20 89.04 96.01 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problem was encountered during the countdown:

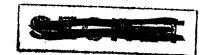
1. In Task 4 (orbital stage destruct arming), a nitrogen purge gas leak occurred in the flex line portion of the IMSC oxidizer vent line. The leak was isolated to the section located between the umbilical mast and the revetment wall. Replacement of one section of the flex line corrected the leak.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 66th orbit and the second on the 99th orbit. Both air recoveries were successful.

Control No. VWZDE 5-27



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MISSILE: SLV-2A No. 437 and SS-01B No. 1614

LAUNCHED: 1444:56.53 PDT, 29 April 1965, Complex PALC-1, Pad 1

LAUNCH CONTROLLERS: Capt Bellia and Lt Klima

COUNTDOWN HISTORY:

First Countdown: The first countdown was initiated at 0610 PDT on 28 April 1965, and proceeded through completion of Task 9 (Gantry Removal). At 1230 PDT an operational hold was imposed to allow completion of another operation. At 1340 PDT the countdown was aborted by Air Force direction because of confliction with the other operation.

Second Countdown: The second countdown was initiated at 0655 PDT on 29 April 1965, and proceeded to liftoff with no holds being imposed. This was the first shortened countdown (470 minutes) to be conducted at PALC-1, Pad 1.

FLIGHT PERFORMANCE:

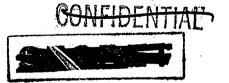
| | Event | Predicted Time | Actual Time |
|----------|---|--------------------------------------|--------------------------------------|
| 1. | Solid Separation | 56.00 | 56.28 |
| | MECO (Command For) | 151.00 | 150.13 |
| - | VECO | 159.90 | 159.06 |
| | Separation | 166.50 | 166.22 |
| | Ignition | 171.95 | 171.07 |
| | Burnout (Shutdown by VM) | 420.96 | 416.70 |
| • | MECO (Command For) VECO Separation Ignition | 151.00 159.90 166.50 171.95 | 150.13 159.06 166.22 171.07 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| Event | Predicted | <u>Actual</u> |
|-----------------------------------|-----------|---------------|
| 3. MECO Inertial Velocity (fps) | 12,178 | 12,198 |
| Injection Inertial Velocity (fps) | 25,849 | 25,860 |
| Apogee (nm) | 255.07 | 260.10 |
| Perigee (nm) | 100.04 | 99.80 |
| Period (min) | 91.06 | 91.12 |
| Inclination Angle (deg) | 85.02 | 85.04 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: There were no AGE problems encountered during the Countdown.

REMARKS: There were two recoverable capsules in the payload of this vehicle. The first capsule was ejected on the 80th orbit and successfully recovered by air. The second capsule was ejected on the 143rd orbit and was not successful.



Control No. WWZDE, 5-29



#1374 CORONA 95/KH-4A 1021-182

PROGRAM 241

MISSILE: SLV-2A No. 438 and SS-01B No. 1615

LAUNCHED: 1102:18.74 PDT, 18 May 1965, Complex 75-3, Pad 4

LAUNCH CONTROLLERS: Capt Sanders & Lt Burch

COUNTDOWN HISTORY: The countdown was initiated at 0405 PDT on 18 May 1965, and proceeded to liftoff with one hold imposed at T-12 minutes (1048 - 1049 PDT) to allow time for WECO ground guidance station to recycle their equipment after receiving a liftoff indication originating from an unknown source.

FLIGHT PERFORMANCE:

| | Event | Predicted Time | Actual Time |
|----|---|---|---|
| 1. | Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 65.00 149.86 158.86 165.36 170.86 415.12 | 65.54 148.86 157.79 164.55 169.82 412.05 |

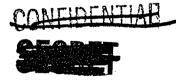
2. Both Thor and Agena Airborne Systems performed satisfactorily.

| | Event | Predicted | Actual |
|----|--|--|--|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,214 25,674 183.13 109.56 89.87 75.01 | 12,236 25,665 180.60 109.90 89.84 75.04 |
| | | | |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown:

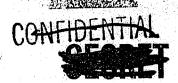
- 1. The main LOX drain valve (LH-15) in the DAC AGE malfunctioned and was replaced.
- 2. A special tool required for installation of the vehicle destruct battery was not available on the pad for the countdown.

Control No. VWZDE 5-37





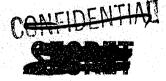




3. During countdown evaluation (Task 12) WECO guidance console received two unprogrammed liftoff signals. Each time the WECO equipment was recycled to eliminate the false indication. The cause of this problem has not yet been determined.

REMARKS:

This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 161st orbit. Both air recoveries were successful.





65-45 #1396 CORGNA 96/KH-4A 1020-182

MISSILE: LV-2A No. 444 and SS-01B No. 1613

LAUNCHED: 1458:16.35 PDT, 9 June 1965, Complex 75-3, Pad 5

LAUNCH CONTROLLER: Capt Sanders

COUNTDOWN HISTORY:

First Countdown: The first countdown was initiated at 0636 PST on 20 April 1965, but was cancelled at 0957 PST due to a payload problem.

Second Countdown: The second countdown was initiated at 0806 PDT on 9 June 1965 and proceeded to liftoff with no holds being imposed.

FLIGHT PERFORMANCE:

| FLA | GHI PENON PICE. | Predicted Time | Actual Time |
|-----|--|---|---|
| 1. | Event Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 65.00 150.31 159.31 165.81 171.31 415.15 | 65.29 151.12 160.03 167.25 172.05 412.47 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| ٤. | 73 | Predicted | Actual |
|----|---|---|---|
| 3. | Event MECO Inertial Velocity (fps) Injection Inertial Velocity (FPS) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,310 25,762.1 201.4 99.3 90.01 75.01 | 12,325 25,770.1 198.8 97.0 89.87 75.08 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the first countdown.

1. Excessive communications problems were encountered. They included loss of voice communications between the blockhouse and LOCC, loss of the pad public address system, and malfunctioning headsets.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 97th orbit and the second on the 113th orbit. Both air recoveries were successful.

Control No. WWZDE/5-38

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4. During Task 11, IMSC personnel were sent to the pad to adjust the guidance gas pressure regulator.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 65th orbit and the second on the 144th orbit. Both air recoveries were successful.

PH Note: then is Page 201 # 1457 65-57 CORNA 97/144-4A 1022-162





MISSILE: SLV-2A No. 422 and SS-01B No. 2702

LAUNCHED: 2255:01.07 PDT, 16 July 1965, Complex 75-1, Pad 2

1 1 AUG 1965

LAUNCH CONTROLLER: Capt Haber

COUNTDOWN HISTORY: The countdown was initiated at 1225 PDT on 16 July 1965 and proceeded to liftoff with two holds imposed totaling 87 minutes. Hold No. 1 was imposed at T-16 minutes to complete work which had fallen behind schedule. Hold No. 2 was imposed during the terminal count when Vandenberg Tracking Station reported abnormal readings on two SS-01B and one payload mandatory T/M measurements.

FLIGHT PERFORMANCE:

| <u>Event</u> | * *** | Predicted Time | Actual Time |
|--------------------------------------|-------|------------------|-------------------------|
| 1. MECO (Command for) | | 149.94 158.94 | 148.78 157.75 |
| VECO Separation | • | 165.44 | 164.96 |
| Ignition Burnout (Shutdown by VM) | | 200.94 435.32 | 199.69 Not Available |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| Event | Predicted | <u>Actual</u> |
|---|--|---|
| 3. MECO Inertial Velocity (fps) 2nd Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,330 25,002 263.64 272.31 94.33 70.16 | 12,354 Not Available 283.61 265.21 94.47 70.16 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

- 1. In Task 2, one of the communications net circuits between the LMSC test conductor in the blockhouse, and the Vandenberg Tracking Station, was found not be completed.
- 2. In Task 6, destruct checks, the pad liftoff signal was not received at the range control officers console. Investigation revealed a misplaced communications patch in the range communications center.

REMARKS: There were no recoverable capsules in the payload of this vehicle. This was the second launch under program 770.

Control No. VWZDE 5-52

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10



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MISSILE: SLV-2A No. 446 and SS-01B No. 1617

LAUNCHED: 1501:12.91 PDT, 19 July 1965, Complex PALC 1, Pad 1 1 AUG 1965

LAUNCH CONTROLLERS: Capt Smathers & Capt Hillard

COUNTDOWN HISTORY: The countdown was initiated at 0800 PDT on 19 July 1965, and proceeded to liftoff with one hold being imposed. The hold was imposed at T-20 minutes from 1441 PDT to adjust the countdown for liftoff at 1501 PDT.

FLIGHT PERFORMANCE:

| | Event | Predicted Time | Actual Time |
|----|---|---|---|
| 1. | Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 56.00 149.88 158.88 165.38 170.88 418.07 | 55.82 149.62 158.56 165.85 170.50 414.89 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| | Event | Predicted | Actual |
|----|--|---|--|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,156 25,849 254.9 99.9 91.06 85.01 | 12,182 25,849 254.7 100.1 91.05 85.06 |
| | | | |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

- 1. The VADE computer at the IMSC MAB experienced technical problems and gave limited support during the countdown.
- 2. Voice communication was lost at blockhouse station 70 during task six.
- 3. During gantry removal, a mechanical conflict occurred between the cable support arm on the umbilical mast and the retracted gantry platform for the 70 foot level.

Control No. WWZDE 5-53

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10



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Program 241 - Launch Summary

27 AUG 1965

MISSILE: SLV-2A No. 449 and SS-01B No. 1618

LAUNCHED: 1359:57.15 PDT, 17 August 1965, South Vandenberg Complex I,

LAUNCH CONTROLLERS: Capt Hilliard & Capt Bellia

COUNTDOWN HISTORY: The countdown was initiated at 0601 PDF on 17 August 1965 and proceeded to liftoff with one operational hold imposed at T-12 minutes at 1249 PDF for AFWTR clearance (ships in the solid motor drop area). The hold was extended due to trains in the hazard area and the countdown was resumed at 1348 PDF, proceeding to liftoff with no further holds.

FLIGHT PERFORMANCE:

| | Event | Predicted Time | Actual Time |
|----|--|---|---|
| 1. | Solid Separation S-1 Command for MECO VECO Separation Command (S-2) SS-01B Engine Ignition Engine Shutdown by Velocity Meter | 56.00 150.45 159.45 163.45 171.45 415.03 | 55.88 149.41 158.36 163.05 170.35 411.83 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

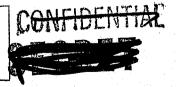
| 3. | Period (min) Inclination Angle (deg) Eccentricity Apogee (nm) Periosee (nm) | 90.50 70.00 .0177 227.0 99.5 | 90.55 70.0 .018 230.4 100.5 |
|----|---|--|---|
| | Perigee (nm) Argument of Perigee (deg) | 158 | 151 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE:

During countdown evaluation, the Vandenberg Tracking Station reported an erroneous reading for SS-01B Lifeboat gas temperature. Satisfactory temperature was verified by the blockhouse landline data.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 144th orbit. Both air recoveries were successful.

Control No. WWZDE 5-58





MISSILE: SLV-2 No. 401 and SS-01A No. 1602

LAUNCHED: 1300:16.43 PDT, 2 September 1965, Complex 75-3, Pad 5

LAUNCH CONTROLLER: Capt Sanders

First Countdown: The first countdown was initiated at 0705 on 31 August 1965 and proceeded to T-1 second, when it was aborted due to a malfunction in the Rocketdyne Engine Relay Box.

Second Countdown: The second countdown was initiated at 0705 PDT on 2 September 1965 and proceeded to liftoff with one hold imposed at T-20 minutes from 1155 to 1240 for range clearance (trains in the launch area).

REMARKS: The powered flight of this vehicle was terminated at T+60.57 seconds when a command destruct signal was issued by the AFWTR MFSO. The command was sent when the impact predictor plot-board indicated that the instantaneous impact point had crossed the easterly destruct limit. A mishap investigation board was convened to determine the cause of the deviation in the flight path of this vehicle.

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

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Control No. VWZDE 5-63







MISSILE: SLV-2A No. 458 and SS-01B No. 1619

LAUNCHED: 1431:14.80 PDT, 22 September 1965, Complex PALC 1, Pad 1

LAUNCH CONTROLLERS: Capt Bellia & Lt Klime

COUNTDOWN HISTORY: The countdown was initiated at 0730 PDT on 22 September 1965, and proceeded to liftoff with no holds imposed.

FLIGHT PERFORMANCE:

| Event | Predicted Time | Actual Time |
|--|---|---|
| 1. Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 60.00 147.61 156.61 163.01 168.61 416.98 | 59.93 148.43(Fuel Depl.) 157.40 164.52 169.30 417.80(OX Depl.) |

2. The Thor Airborne System had a fuel depletion and Agena had an apparent OX depletion resulting in an unspecified orbit of the payload.

| | Event | Predicted | Actual |
|----|--|---|---|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,262 25,833 245.3 99.9 90.87 80.00 | 12,194 25,770 208.2 97.4 90.16 80.06 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

1. During task 7, the SS-01B T/M Link II signal level was low. An AGE umbilical RF connector was retorqued, which corrected the problem.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 161st orbit. Both air recoveries were successful.

Control No. VWZDE 5-66

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

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2 NOV 1965

MISSILE: SLV-2A No. 433 and SS-01B No. 1616

<u>LAUNCHED:</u> 1045:57.45 PDT, 5 October 1965, Complex 75-3, Pad 5

LAUNCH CONTROLLERS: Capt Sanders & 1/Lt Sobel

COUNTDOWN HISTORY: The countdown was initiated at 0416 PDT on 5 October 1965 and proceeded to liftoff with no holds imposed. order to integrate with another operation, the command destruct and destruct arming tests were performed prior to opening the countdown.

FLIGHT PERFORMANCE:

| Flut | GII Third of the same of the s | Predicted Time | Actual Time |
|------|--|---|---|
| 1. | Event Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 65.00 148.88 157.88 164.40 169.88 413.58 | 65.34 148.59 157.53 164.85 169.54 412.47 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| <i>4</i> . • | | Predicted | Actual |
|--------------|---|--|--|
| 3. | Event MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,291 25,678 184.2 109.4 89.87 75.01 | 12,313 25,656 180.7 112.2 89.78 75.04 |
| | | | |

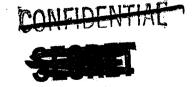
AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

1. An SLV-2A engine regulated pressure indication was not received in the blockhouse console. Investigation revealed that umbilical plug number 714 was not making contact. The plug was reseated and a normal indication was received.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 161st orbit. Both air recoveries were successful.

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Control No. WWZDE 5-69



MISSILE: SLV-2A No. 435 and SS-01B No. 6801

LAUNCHED: 0611:55.00 PDT, 14 October 1965, Complex 75-1, Pad 1

LAUNCH CONTROLLERS: 1/Lt Johnston & 1/Lt Klinger

COUNTDOWN HISTORY: The countdown was initiated at 2018 PDT on 13 October 1965 and proceeded to liftoff with one hold of four minutes duration imposed during the terminal count for range safety (ships in the solid motor bottle drop area).

FLIGHT PERFORMANCE:

| LIII | | Predicted Time | Actual Time |
|------|---|--|---|
| | Event | 65.00 | 65.20 |
| 1. | Solid Separation MECO (COMMAND FOR) VECO Separation Ignition Burnout (Shutdown by VM) | 148.16 157.16 163.66 247.16 489.00 | 150.46 (LOX Dep1) 159.34 167.70 249.42 490.35 |
| | DUITION CO. | | |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| | - T | Predicted | Actual |
|----|--|--|---|
| 3. | Event MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 11,356 25,584 503.5 179.9 97.33 86.00 | 11,873 26,048 785.0 221.8 104.00 87.35 |
| | THE THICK THE PARTY OF THE PART | | |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

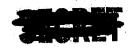
- 1. In Task 3, a union in the DAC pad facility nitrogen supply plumbing was found cracked.
- 2. At the beginning of Task 11, communications between the blockhouse photographic console and the gantry were lost.
- 3. In Task 11, a personnel high lift malfunctioned.

REMARKS: The primary launch objective, to have a SLV-2A/SS-01B combination place the NASA OGO spacecraft in a specified orbit, was not achieved. Orbit was achieved but it was not within any of the specified tolerances. This was caused by failure of the WECO Ground Guidance System to acquire and command the SLV-2A/SS-01B combination.

DOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

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1 6 NOV 1965

PROGRAM 241

MISSILE: SLV-2A No. 439 and SS-01B No. 1620

LAUNCHED: 1417:12.71 PDT, 28 October 1965, South Vandenberg AFB Complex 1, Pad 1

LAUNCH CONTROLLERS: Capt Hilliard & Capt Smathers

COUNTDOWN HISTORY: The countdown was initiated at 0701 PDT on 28 Oct 1965, and proceeded to liftoff with one hold of 15 minutes duration imposed at T-16 minutes due to problems encountered during simultaneous payload and WECO checks.

FLIGHT PERFORMANCE:

| T 111 | CIII. | Predicted Time | Actual Time |
|-------|--|---|---|
| 1. | Event Solid Separation MECO (command For) VECO Separation Ignition Burnout (Shutdown by VM) | 56.00 149.72 158.72 165.22 170.72 414.96 | 55.74 147.86 156.79 163.64 168.71 412.18 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

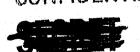
| Z. Both Hot are as | Predicted | Actual |
|--|---|---|
| Event 3. MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,381 25,822 238.1 99.8 90.72 75.00 | 12,420 25,841 242.5 95.2 90.77 74.98 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problem was encountered during the countdown.

1. A reset signal was not received at any station outside of the blockhouse due to a Kellogg equipment relay malfunction. The equipment was repaired and the reset signal verified at all stations.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 160th orbit. Both air recoveries were successful.

Control No. WWZBC 5-71



5 JAN 1966

MISSILE: SLV-2 No. 453 and S-01 No. 6102

LAUNCHED: 2048:47.05 PST, 28 November 1965, Complex 75-1, Pad 1

LAUNCH CONTROLLERS: Capt Haber & Lt Klinger

COUNTDOWN HISTORY:

First Countdown: The first countdown was initiated at 1134 PST, 27 November 1965 and was aborted at 2324 PST during Phase V of terminal count due to an inability of the Range Tracking Radar to lock on the C-Band Beacon.

Second Countdown: The second countdown was initiated at 1134 PST, 28 November 1965 and proceeded to liftoff with no holds imposed.

FLIGHT PERFORMANCE:

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| | Event | <u>Predi</u> | icted Time | Actual Time |
|----|--|--------------|--|--|
| 1. | MECO (COMMAND FOR) VECO Separation Ignition Burnout (Shutdown by VM) | | 147.83 156.83 163.97 188.78 420.11 | 149.35 158.33 165.98 189.41 421.83 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| | Event | <u> </u> | Predicted Time | Actual Time |
|----|--|----------|--|--|
| 3. | MECO Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | | 11,095 1619.70 268.86 121.41 79.91 | 11,131 1609.00 270.00 121.40 79.80 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdowns.

- 1. A hold was imposed during Terminal Count due to a misadjustment of the liftoff switch. A shim was installed to hold the switch in proper position.
- 2. In task 12, the final cool payload module on the Type 45 Air Conditioner (LMSC) malfunctioned.

REMARKS: This was the second Thor/Agena launch under the NASA Program during Calender Year 1965. Both launches were from Complex 75-1, Pad 1.

DEC. 11

5 JAN 1956

MISSILE: SLV-2A No. 448 and SS-01B No. 1621

LAUNCHED: 1310:19.60 PST, 9 December 1965, SLC #2, Pad 5

LAUNCH CONTROLLERS: Capt McNab & Lt Burch

COUNTDOWN HISTORY:

First Countdown: The first countdown was initiated at 0516 PST on 8 December 1965, but was aborted in Task 9 (Orbital Stage Propellant Tanking) at 1305 PST when it was determined that insufficient time remained to repair a IMSC AGE propellant leak and launch within the scheduled window.

Second Countdown: The second countdown was initiated at 0601 PST, 9 December 1965 and proceeded to liftoff with one hold imposed at T-20 minutes to adjust the countdown to an optimum liftoff time.

FLIGHT PERFORMANCE:

| | Event | | Predicted Time | Actual Time |
|----|-------------------------|----------|----------------|------------------|
| 1. | Solid Separation | | 65.00 | 64.82 |
| • | MECO (Command For) | · · | 149.11 | 150.76 |
| | VECO . | | 158.11 | 159.74 |
| | Separation | | 165.61 | 165.93 171.66 |
| | Ignition | ^ | 170.11 | |
| | Burnout (Shutdown by VM | J | 409.02 | 412.79 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

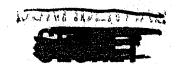
| | Event | Predicted | Actual |
|----|--|----------------------------|-------------------------------|
| 3. | MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) | 12,159 25,831 244.71 | 12,176 25,833 243.9 |
| | Perigee (nm) Period (min) | 99.63 90.86 | 98.9 90.84 |
| | Inclination Angle (deg) | 80.00 | 80.06 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problems were encountered during the countdown.

- 1. In Task 9, an IMSC AGE propellant leak caused the first countdown to be aborted.
- 2. During the second countdown there was a leak in the IMSC AGE oxidizer fill line between the mast and pad revetment. The section was replaced and leak checked.

OOWNGRADED AT 3 YEAR INTER-VALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10 Control No. VWZBC 6-2

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REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 17th orbit and the second on the 33rd orbit. Both air recoveries were successful.

PH Note: this is Page 2 of #1816 65-102 CORONA 103/KH-4A 1027-182









1 8 JAN 1966

MISSILE: SLV-2A No. 451 and SS-01B No. 1610

LAUNCHED: 1306:15.83 PST, 24 December 1965, Complex 75-3, Pad 4

LAUNCH CONTROLLERS: Lt Sobel and Capt Sanders

COUNTDOWN HISTORY: The countdown was initiated at 0501 PST on 24 December 1965 and proceeded to liftoff with one hold imposed at T-12 minutes (1249 to 1254 PST) due to a train in the hazard area.

FLIGHT PERFORMANCE:

| Event | Predicted Time | Actual Time |
|---|---|---|
| Solid Separation MECO (Command For) VECO Separation Ignition Burnout (Shutdown by VM) | 65.00 148.77 157.77 164.27 169.77 415.25 | 64.86 150.81 159.81 165.80 171.73 415.39 |

2. Both Thor and Agena Airborne Systems performed satisfactorily.

| Event | Predicted | Actual |
|---|---|---|
| 3. MECO Inertial Velocity (fps) Injection Inertial Velocity (fps) Apogee (nm) Perigee (nm) Period (min) Inclination Angle (deg) | 12,253 25,832 244.74 99.66 90.86 79.99 | 12,252 25,841 245.1 99.0 90.84 80.02 |

AEROSPACE GROUND EQUIPMENT PERFORMANCE: The following AGE problem was encountered during the countdown.

1. In Task 10, the DAC missile bottle pressurizing valve did not close until the missile bottle pressure reached 2800 psi (the valve normally closes at 2000 psi). No repairs were made. The operating pressure is 3000 psi during terminal count so operation of the valve was assured.

REMARKS: This vehicle carried two recoverable capsules. The first capsule was ejected on the 81st orbit and the second on the 114th orbit. Both air recoveries were successful.

Control No. VWZBC 6-7

DOWNGRADED AT 3 YEAR INTER-VALS; DICLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10



"我接着我的现在是我会的大概的现在分词,我的现在分词的现在分词的现在分词,我们的现在分词是一个,我们的现在分词是一个,我们的人,我们就是一个,我们的人,我们就是