

58. 50D (Mercury), 29 July 60, Response Mode 4, Flight Phase 1: Flight appeared normal till 57.6 seconds when missile broke up apparently due to a rupture of the forward section of the LO₂ tank.
61. 47D (Golden Journey), 12 Sep 60, Response Mode 4, Flight Phase 2: Flight was apparently normal until about 222 seconds, when missile acceleration began to decay. A LOX regulator failure caused low sustainer performance and insufficient velocity to reach target. Impact was about 535 miles short.
64. 80D (Able V/Pioneer), 25 Sep 60, Response Mode 4T, Flight Phase 2.5 and 3: Atlas performed normally except for failure of vernier engines to cut off. Flight was not successful since the Agena chamber pressure stabilized at 70% of normal shortly after ignition. Stage then apparently tumbled before cutting off 30 seconds early. Third-stage spun up and stabilized in a nose-down attitude.
65. 33D (High Arrow), 29 Sep 60, Response Mode 4, Flight Phase 1: The booster engines cut off prematurely and failed to separate from sustainer. The missile remained intact, but failed to achieve the desired range because of the added booster weight.
66. 3E, 11 Oct 60, Response Mode 5, Flight Phase 2: Sustainer hydraulic pressure began to decay at 41 seconds and dropped to zero at 62 seconds. Sustainer began tumbling at booster staging when control was essentially lost. Thrust continued for about 18 seconds moving the impact point some 270 miles farther downrange and 27 miles crossrange. The missile exploded at 155 seconds.
67. 57D (LV-3A)/Agena A (Gibson Girl), 11 Oct 60, Response Mode NA, Flight Phase 3 and 5: Atlas performance was satisfactory. An umbilical failed to release properly from the Agena at liftoff, resulting in loss of pneumatic supply to the Agena attitude control system. A satisfactory orbit was not achieved. Guidance beacon failed at 106 seconds resulting in autopilot flight.
68. 81D (Diamond Jubilee), 12 Oct 60, Response Mode 4, Flight Phase 1: Overpressurization of the LOX tank resulted in tank rupture and vehicle breakup at 71.6 seconds.
72. 4E, 29 Nov 60, Response Mode 5, Flight Phase 2: Sustainer hydraulic pressure lost at 41 seconds. Missile tumbled shortly after booster staging. Sustainer thrust terminated at about 150 seconds, some 22 seconds after BECO. During the sustainer solo phase, the impact point moved about 120 miles downrange and 44 miles crossrange.
73. 91D, 15 Dec 60, Response Mode 4, Flight Phase 1: Vehicle performed normally till about 66.7 seconds, when a blast-band failure apparently resulted in rupture of the forward section of the LOX tank. The upper stages separated at this time, but the Atlas engines continued thrusting until 71 seconds. Control was lost between