



1

00:00:00,670 --> 00:00:17,410

George Diller/ NASA Commentator: T-minus 15 seconds. T-minus 10, 9, 8, 7, 6, 5, 4, 3, 2, 1. Main engine start

2

00:00:17,410 --> 00:00:30,750

Zero and liftoff of the Atlas V with Curiosity, seeking clues to the planetary puzzle about life on Mars.

3

00:00:30,750 --> 00:00:36,030

Rob Gagnon/Flight Commentator: Roll program is in right on time.

4

00:00:36,030 --> 00:00:42,770

RD-180 operating at 100 percent thrust, as expected

5

00:00:42,770 --> 00:00:58,540

Throttling down to 76 percent. Program is now complete. MSL is now breaking the sound barrier.

6

00:00:58,540 --> 00:01:08,240

SRB chamber pressures following the nominal curve. Everything looking good.

7

00:01:08,240 --> 00:01:13,150

And we pass through MaxQ.

8

00:01:13,150 --> 00:01:20,030

Close loop on Atlas B/U. Signatures as expected.

9

00:01:20,030 --> 00:01:22,900

SRB profile continues to look nominal.

10

00:01:22,900 --> 00:01:32,000

Throttling back up to 100 percent thrust on the RD-180, engine parameters looking good.

11

00:01:32,000 --> 00:01:39,860

Flight control disturbances look as expected.

12

00:01:39,860 --> 00:01:47,370

SRB pressures running right as expected.

13

00:01:47,370 --> 00:01:57,100

Coming up on SRB burnout. We have burnout of the SRBs.

14

00:01:57,100 --> 00:02:00,460

Everything is looking good.

15

00:02:00,460 --> 00:02:10,380

Ten seconds to SRB jet.

16

00:02:10,380 --> 00:02:16,030

And we have first pair and second pair. Both sets of SRBs have successfully jettisoned (from) the vehicle.

17

00:02:16,030 --> 00:02:21,480

We have re-enabled guidance, everything is looking good.

18

00:02:21,480 --> 00:02:26,230

George Diller/ NASA Commentator: This is Rob Gagnon, our United launch Alliance telemetry manager, we're

19

00:02:26,230 --> 00:02:40,650

Rob Gagnon/Flight Commentator: Vehicle is now 32 nautical miles in altitude, 54 miles downrange, traveling at

20

00:02:40,650 --> 00:03:08,270

And we've throttled down to hold a constant 2.5 g level for payload fairing jettison.

21

00:03:08,270 --> 00:03:18,190

And we fired the pyro valve, pressure rising in the RCS bottle.

22

00:03:18,190 --> 00:03:26,290

Pressure increasing in the loop as expected.

23

00:03:26,290 --> 00:03:34,110

And now we're hitting our 2.5 G limit, coming up on payload fairing jettison.

24

00:03:34,110 --> 00:03:43,520

Approximately 10 seconds.

25

00:03:43,520 --> 00:03:46,370

Fairing jet.

