



4102

1

00:00:01,569 --> 00:00:12,910

Countdown Commentator: Ten, nine, eight, seven, six, five, four, three, two, one, and liftoff.

2

00:00:12,910 --> 00:00:17,700

The rise of Starliner and a new era of human spaceflight.

3

00:00:17,700 --> 00:00:25,630

Launch Commentator: Now ten seconds into flight.

4

00:00:25,630 --> 00:00:30,949

Vehicle's begun the pitch-over program.

5

00:00:30,949 --> 00:00:36,070

Body rate responses look good.

6

00:00:36,070 --> 00:00:40,170

Now 15 seconds in.

7

00:00:40,170 --> 00:00:41,199

(Inaudible).

8

00:00:41,199 --> 00:00:46,329

Now 26 seconds into flight.

9

00:00:46,329 --> 00:00:49,440

RD-180 now throttling down to partial thrust, as expected.

10

00:00:49,440 --> 00:00:50,440

Engine response looks good.

11

00:00:50,440 --> 00:00:51,440

Now 38 seconds in.

12

00:00:51,440 --> 00:00:58,180

RD-180 engine operating parameters continue

to look good.

13

00:00:58,180 --> 00:01:04,769

Vehicle is now passing through Max Q – maximum dynamic pressure.

14

00:01:04,769 --> 00:01:07,140

Chamber pressures on both SRBs continue to look good.

15

00:01:07,140 --> 00:01:12,060

RD-180 engine operating parameters also continue to look good.

16

00:01:12,060 --> 00:01:18,420

Now passing one minute into flight.

17

00:01:18,420 --> 00:01:24,329

And Mach 1, Atlas V is now supersonic.

18

00:01:24,329 --> 00:01:29,010

And vehicle now throttling up, engine response looks good; continue to see good chambers

19

00:01:29,010 --> 00:01:33,170

on both SRBs.

20

00:01:33,170 --> 00:01:36,750

One minutes, 20 seconds into flight.

21

00:01:36,750 --> 00:01:42,450

Body rate responses on the vehicle look good.

22

00:01:42,450 --> 00:01:44,850

One minute, 30 seconds in.

23

00:01:44,850 --> 00:01:47,860

Standing by for SRB burnout.

24
00:01:47,860 --> 00:01:50,360
And we have burnout on both solid rocket boosters.

25
00:01:50,360 --> 00:01:53,620
Atlas will hold on to the SRBs for an additional
48 seconds prior to jettison.

26
00:01:53,620 --> 00:01:57,890
RD-180 has gone back up to full thrust, as
expected.

27
00:01:57,890 --> 00:02:02,360
Engine response looks good.

28
00:02:02,360 --> 00:02:05,130
One minute, 50 seconds in.

29
00:02:05,130 --> 00:02:10,970
Atlas is now 17 miles in altitude, 11-and-a-half
miles downrange distance, traveling at 2,300

30
00:02:10,970 --> 00:02:11,970
miles per hour.

31
00:02:11,970 --> 00:02:14,850
Now passing two minutes into flight.