



1  
00:00:03,669 --> 00:00:02,710  
t minus ten

2  
00:00:04,550 --> 00:00:03,679  
nine

3  
00:00:05,510 --> 00:00:04,560  
eight

4  
00:00:06,550 --> 00:00:05,520  
seven

5  
00:00:07,590 --> 00:00:06,560  
six

6  
00:00:08,549 --> 00:00:07,600  
five

7  
00:00:09,589 --> 00:00:08,559  
four

8  
00:00:10,549 --> 00:00:09,599  
three

9  
00:00:11,350 --> 00:00:10,559  
two

10  
00:00:13,190 --> 00:00:11,360  
one

11  
00:00:15,829 --> 00:00:13,200  
and we have

12  
00:00:18,630 --> 00:00:15,839  
liftoff of the united launch alliance

13  
00:00:22,790 --> 00:00:18,640

atlas v rocket with the stp-3 mission

14

00:00:26,470 --> 00:00:24,070

vehicle has cleared the tower and is

15

00:00:28,070 --> 00:00:26,480

beginning the pitchover program

16

00:00:29,910 --> 00:00:28,080

and the rd-180 is throttling down

17

00:00:32,229 --> 00:00:29,920

slightly as expected engine response

18

00:00:34,069 --> 00:00:32,239

looks good

19

00:00:36,549 --> 00:00:34,079

and passing 20 seconds into flight the

20

00:00:38,229 --> 00:00:36,559

pu system has gone to close loop control

21

00:00:40,630 --> 00:00:38,239

srb chamber pressures continue to look

22

00:00:42,069 --> 00:00:40,640

nominal rd180 pump speed and fuel

23

00:00:47,190 --> 00:00:42,079

injector pressure fuel injector

24

00:00:47,200 --> 00:00:56,790

mach 1 atlas 5 is now supersonic

25

00:01:00,470 --> 00:00:58,869

passing 45 seconds into flight the

26

00:01:08,310 --> 00:01:00,480

vehicle is now passing through max q

27

00:01:13,109 --> 00:01:10,390

and the rd-180 is throttling back up as

28

00:01:14,630 --> 00:01:13,119

expected engine response looks good

29

00:01:17,830 --> 00:01:14,640

passing one minute into flight the

30

00:01:20,070 --> 00:01:17,840

vehicle is now nine miles in altitude

31

00:01:30,149 --> 00:01:20,080

uh seven miles downrange traveling at

32

00:01:34,149 --> 00:01:31,910

and the rd-180 is throttling down again

33

00:01:45,590 --> 00:01:34,159

as expected engine response looks good

34

00:01:49,109 --> 00:01:47,270

and just past a minute and a minute and

35

00:01:51,270 --> 00:01:49,119

a half into flight we have burnout on

36

00:01:52,710 --> 00:01:51,280

all five srbs burnout pressure

37

00:01:54,950 --> 00:01:52,720

signatures are looking good and the

38

00:01:57,350 --> 00:01:54,960

rd180 is being throttled back up as

39

00:02:09,990 --> 00:01:57,360

expected following srb burnout

40

00:02:13,350 --> 00:02:11,510

and we have good indication of jettison

41

00:02:15,030 --> 00:02:13,360

of all five srbs and the vehicle has

42

00:02:18,070 --> 00:02:15,040

gone to closed loop q alpha limited