
49:59

1
00:00:00,506 --> 00:00:20,036
[Music]

2
00:00:20,536 --> 00:00:23,736
>> Launch vehicle is on the launch pad,
730 kilometers away from here.

3
00:00:24,116 --> 00:00:28,516
Being prepared by the launch teams in the launch
control center, [inaudible] away from the pad.

4
00:00:28,516 --> 00:00:32,546
>> We're going to go up there in just a minute
with the camera, and you can see closer up.

5
00:00:32,806 --> 00:00:36,976
>> And if all the systems are good and
great, then have authorization to go ahead.

6
00:00:37,516 --> 00:00:59,516
[Foreign]

7
00:01:00,016 --> 00:01:09,000
[Engine Roaring]

8
00:01:09,016 --> 00:01:10,016
[Foreign]

9
00:01:10,016 --> 00:01:20,000
[Engine Roaring]

10
00:01:20,626 --> 00:01:26,916
>> Well we lost her to the low clouds early,
but in a blaze of light there she is coming back

11
00:01:26,916 --> 00:01:29,016
out of the clouds, roaring off the path.

12

00:01:29,016 --> 00:01:31,826
The [inaudible] says everything is
normal, propulsion and trajectory.

13
00:01:31,826 --> 00:01:37,666
In a blaze of light and a trail of gold
Azarian [phonetic] 5 reaches into the skies

14
00:01:37,666 --> 00:01:43,936
above French Guiana on her way to
deliver ATV3 which will make her way

15
00:01:43,936 --> 00:01:45,856
to the International Space Station next week.

16
00:01:46,356 --> 00:01:48,186
>> Okay, we have lost her to the clouds.

17
00:01:48,186 --> 00:01:51,056
So the launch [inaudible] first
clears a path in a vertical rise,

18
00:01:52,296 --> 00:01:54,636
and we can start giving the noise --

19
00:01:55,576 --> 00:01:59,466
and the launch [inaudible] has just passed
mach 1, it's past the speed of sound.

20
00:01:59,826 --> 00:02:03,596
6 kilometers in altitude, 317 meters per second.

21
00:02:04,516 --> 00:02:12,236
>> 773 tons at liftoff, she's burning 5 tons
of fuel every second, 2.5 tons in each booster,

22
00:02:12,636 --> 00:02:16,736
those are the big flames on either
side, and the EPC of the core stage,

23
00:02:16,736 --> 00:02:20,816
and the center is burning
another 300 kilos per second.

24
00:02:21,946 --> 00:02:29,426
>> 1:00 and 34 minutes, beautiful
scenes in the night of French Guiana.

25
00:02:29,986 --> 00:02:35,626
The first phase of flight with the
boosters, saw 90% of the thrust,

26
00:02:37,056 --> 00:02:39,886
then separation around 2 minutes later.

27
00:02:40,106 --> 00:02:45,786
And then once we had an altitude
of around 106 kilometers,

28
00:02:45,786 --> 00:02:47,206
a separation of the faring [phonetic].

29
00:02:47,916 --> 00:02:53,246
We no longer need it, and we don't want
to bring unnecessary weight with us.

30
00:02:54,796 --> 00:02:58,266
And then finally separation of the EPC.

31
00:02:59,136 --> 00:03:04,576
Extension, separation, and the
start of -- of the EPS engine.

32
00:03:08,976 --> 00:03:16,286
A long boost, which went
perfectly normal, very smooth,

33
00:03:16,486 --> 00:03:22,546
and then a very long coast phase while we wait

to get to the apogee of this intermediate orbit.

34
00:03:23,116 --> 00:03:31,136
For the final boost, yes we -- at this
point we're at the end of the mission,

35
00:03:31,136 --> 00:03:33,886
we're waiting for the very
last point of the separation.

36
00:03:33,886 --> 00:03:34,106
>> [Foreign]

37
00:03:34,106 --> 00:03:34,326
[Applause]

38
00:03:34,326 --> 00:03:43,566
>> And it's been confirmed, we've had separation
and it's been acquired by the launch people.

39
00:03:44,516 --> 00:03:50,706
[Applause]

40
00:03:51,206 --> 00:03:53,836
>> And the applause heralding the good news.

41
00:03:53,836 --> 00:04:00,256
Azarian 5 once again delivering, successfully
separating her passenger, the ATV 3,

42
00:04:00,256 --> 00:04:01,876
you see what that looks like up there.

43
00:04:01,876 --> 00:04:06,966
Luke [phonetic] explained the spring
system, which releases the 20-ton payload.

44
00:04:07,496 --> 00:04:10,866
She's on her way now to join

the International Space Station,

45
00:04:11,386 --> 00:04:14,686
docking should occur the night of the 30th.

46
00:04:15,836 --> 00:04:19,046
Right on target at 269 kilometers up.

47
00:04:19,306 --> 00:04:22,886
So the mood, as you see, very buoyant
now all across the space center,

48
00:04:22,886 --> 00:04:24,966
for being focused moments before.

49
00:04:25,516 --> 00:04:59,546
[Silence]

50
00:05:00,046 --> 00:05:02,406
>> It's a very good step, very good step.

51
00:05:02,876 --> 00:05:11,736
Not yet the end by far, but the launch one step,
the deployment of the shrapnel the second step.

52
00:05:11,826 --> 00:05:16,436
So I think that it's two good steps at start.

53
00:05:16,436 --> 00:05:20,006
>> [Inaudible], it's really the -- the
illustration of the savoir faire, the know-how.

54
00:05:20,006 --> 00:05:23,566
Because when you think of what happened
those last months between Sawyers [phonetic],

55
00:05:23,796 --> 00:05:28,196
Vega [phonetic], and now this, I mean you
must be a very happy Director General.

56
00:05:28,396 --> 00:05:29,436
>> Yes, yes, yes.

57
00:05:29,436 --> 00:05:32,166
It's not only [inaudible],
it's also all in the three,

58
00:05:32,166 --> 00:05:35,086
which is behind these three -- three events.

59
00:05:35,086 --> 00:05:41,296
But it is true that the launch of Sawyers
in October, the launch of Vega in February,

60
00:05:41,296 --> 00:05:47,706
the launch of today with IN5 and
ATV3, yes it's a fantastic six months.

61
00:05:47,706 --> 00:05:55,436
And -- because today the -- the picture is
very different compared to six months ago,

62
00:05:55,436 --> 00:06:01,746
meaning that we are now a significant
-- a significant space power.

63
00:06:01,746 --> 00:06:02,846
I -- I can say that.