



1
00:00:00,000 --> 00:00:00,500
>> [Inaudible].

2
00:00:00,500 --> 00:00:01,650
>> Ground.

3
00:00:02,990 --> 00:00:07,230
So use -- everything
is well on board.

4
00:00:09,970 --> 00:00:12,500
>> Ground umbilicals
being detached.

5
00:00:12,500 --> 00:00:13,150
>> Launch.

6
00:00:13,150 --> 00:00:17,740
>> Under 20 seconds, launch
command has been issued.

7
00:00:17,740 --> 00:00:18,080
>> [Inaudible].

8
00:00:18,080 --> 00:00:20,630
>> I can feel the
tower now separating.

9
00:00:20,630 --> 00:00:28,200
15 seconds and counting.

10
00:00:28,200 --> 00:00:29,460
>> Preliminary.

11
00:00:29,460 --> 00:00:33,060
>> Preliminary command
confirmed, engines firing.

12

00:00:33,060 --> 00:00:33,510
>> [Inaudible].

13
00:00:33,510 --> 00:00:34,190
>> Main liftoff.

14
00:00:34,190 --> 00:00:37,190
>> 5, 4, 3, 2, 1, and liftoff.

15
00:00:37,190 --> 00:00:39,790
Tom Marshburn, Roman Romanenko,

16
00:00:44,530 --> 00:00:53,360
and Chris Hadfield making their
way towards the International

17
00:00:53,360 --> 00:00:54,460
Space Station.

18
00:00:54,460 --> 00:00:57,380
>> All parameters are normal.

19
00:00:57,380 --> 00:00:59,080
[Inaudible] is all on
board, we are feeling well.

20
00:00:59,080 --> 00:01:03,500
>> Getting good first
stage performance.

21
00:01:03,500 --> 00:01:06,220
The [inaudible] is
delivering 102 tons of thrust

22
00:01:06,220 --> 00:01:14,230
from its four strapped on
boosters and single core engine.

23
00:01:14,230 --> 00:01:14,820

>> Stages.

24

00:01:14,820 --> 00:01:17,260

>> First stage of that

[inaudible] measuring 68 feet

25

00:01:17,260 --> 00:01:20,570

in length and 24 feet in

diameter, burning liquid fuel

26

00:01:20,570 --> 00:01:21,950

for the first 2 minutes

and 6 seconds of flight.

27

00:01:21,950 --> 00:01:22,020

>> [Inaudible].

28

00:01:22,020 --> 00:01:23,330

>> 40 seconds, in-flight

stabilization is stable.

29

00:01:23,330 --> 00:01:24,530

>> Compression controllers

reporting all vehicle

30

00:01:24,530 --> 00:01:25,520

stabilization continuing

as planned.

31

00:01:25,520 --> 00:01:26,510

Flight is nominal.

32

00:01:26,510 --> 00:01:34,380

[Silence]

33

00:01:34,380 --> 00:01:37,440

>> 60 seconds.

34

00:01:37,440 --> 00:01:42,520

Your pitch all nominal, okay,
everything is nominal on board.

35

00:01:42,520 --> 00:01:43,280
We're feeling well.

36

00:01:43,280 --> 00:01:47,700
>> We're now 1 minute, 10
seconds into the flight,

37

00:01:47,700 --> 00:01:50,960
the rocket now moving at a
velocity of 1,100 miles an hour.

38

00:01:50,960 --> 00:01:53,510
Everything continuing
to look flawless.

39

00:01:53,510 --> 00:02:12,040
[Silence]

40

00:02:12,040 --> 00:02:15,230
First stage thrusters still
continuing to fire nominally.

41

00:02:15,230 --> 00:02:21,790
>> Flight stable, parameters
of the booster are stable.

42

00:02:21,790 --> 00:02:24,740
Okay. [Inaudible] we are
feeling great, we're feel --

43

00:02:24,740 --> 00:02:26,550
and there is vibration.

44

00:02:26,550 --> 00:02:28,580
>> Now 1 minute, 54 seconds in,

45

00:02:28,580 --> 00:02:31,570
the launch escape tower has been
jettisoned from the spacecraft.

46
00:02:31,570 --> 00:02:33,540
>> Ah, jettison confirmed.

47
00:02:33,540 --> 00:02:38,020
>> Now you can see the four
strap-on boosters separating 1

48
00:02:38,020 --> 00:02:40,750
minute, 58 seconds into
flight, being jettisoned.

49
00:02:40,750 --> 00:02:43,250
They've completed their job,
and dropped away at an altitude

50
00:02:43,250 --> 00:02:46,480
of about 28 statute miles,
Soyuz is now traveling

51
00:02:46,480 --> 00:02:49,260
at about 3,350 miles an hour.

52
00:02:49,260 --> 00:02:50,510
>> It's nominal on board.

53
00:02:50,510 --> 00:03:03,010
[Silence]

54
00:03:03,010 --> 00:03:03,080
>> [Inaudible].

55
00:03:03,080 --> 00:03:07,930
>> 1 57 seconds in
flight, stage --

56

00:03:07,930 --> 00:03:14,270
booster stage 2 is
functioning nominally.

57
00:03:14,270 --> 00:03:14,640
>> [Inaudible].

58
00:03:14,640 --> 00:03:20,980
>> So 2 minutes, 38
seconds now into the flight,

59
00:03:20,980 --> 00:03:22,440
the long shroud being
jettisoned.

60
00:03:22,440 --> 00:03:25,570
Rocket at an altitude now
of about 48 miles high.

61
00:03:25,570 --> 00:03:26,510
>> Confirm.

62
00:03:26,510 --> 00:03:35,170
[Silence]

63
00:03:35,170 --> 00:03:38,660
>> Crew inside, vehicle
stabilization still performing

64
00:03:38,660 --> 00:03:41,530
as planned, everything going
flawlessly on this launch.