



1  
00:00:00,966 --> 00:00:09,575  
[ Background Sounds ]

2  
00:01:31,090 --> 00:01:40,166  
>> And that is 10, 9, 8, 7,  
6, 5, 4, 3, 2, 1, ignition.

3  
00:01:41,300 --> 00:01:46,205  
>> [Foreign Language].

4  
00:01:46,205 --> 00:01:51,043  
>> And the Soyuz is now on  
its way with Mike Hopkins,

5  
00:01:51,043 --> 00:01:53,779  
Oleg Kotov, and Sergey  
Ryazanskiy on a six-hour ride

6  
00:01:53,779 --> 00:01:55,548  
to the International  
Space Station.

7  
00:01:55,548 --> 00:02:00,986  
[ Background Sounds ]

8  
00:02:00,986 --> 00:02:01,754  
>> [Foreign Language].

9  
00:02:01,754 --> 00:02:05,491  
Everything is final for -

10  
00:02:05,491 --> 00:02:13,098  
[ Background Sounds ]

11  
00:02:13,098 --> 00:02:14,099  
>> Good first state performance.

12  
00:02:14,099 --> 00:02:15,935

Soyuz's delivering  
102 tons of thrust

13  
00:02:15,935 --> 00:02:18,237  
from its four boosters  
and single engine.

14  
00:02:18,237 --> 00:02:20,773  
The first stage of the Soyuz  
measures 68 feet in length

15  
00:02:20,773 --> 00:02:22,208  
and 24 feet in diameter.

16  
00:02:22,208 --> 00:02:24,810  
It is currently burning liquid  
fuel for the first two minutes

17  
00:02:24,810 --> 00:02:26,512  
and six seconds of the flight.

18  
00:02:26,512 --> 00:02:35,588  
[ Engine Sounds ]

19  
00:02:48,033 --> 00:02:48,601  
>> [Foreign Language].

20  
00:02:48,601 --> 00:02:50,536  
Domino flight.

21  
00:02:50,536 --> 00:02:57,743  
[ Engine Sounds ]

22  
00:02:57,743 --> 00:02:58,844  
>> Seventy seconds  
into the flight,

23  
00:02:58,844 --> 00:03:01,480  
velocity is now 1,100

miles an hour.

24

00:03:01,480 --> 00:03:10,556

[ Engine Sounds ]

25

00:03:13,993 --> 00:03:14,660

>> [Inaudible].

26

00:03:14,660 --> 00:03:19,498

>> Nine, 90 seconds.

27

00:03:19,498 --> 00:03:23,035

[ Engine Sounds ]

28

00:03:23,035 --> 00:03:24,503

>> Stable condition.

29

00:03:24,503 --> 00:03:33,579

[ Background Sounds ]

30

00:03:46,025 --> 00:03:48,027

>> [Foreign Language].

31

00:03:48,027 --> 00:03:49,295

[ Background Sounds ]

32

00:03:49,295 --> 00:03:50,963

>> Fyodor's strap-on boosters  
have now been jettison.

33

00:03:50,963 --> 00:03:52,698

These completed their  
job and have dropped away

34

00:03:52,698 --> 00:03:54,400

at an altitude of  
30 statute miles.

35

00:03:54,400 --> 00:03:58,537

The Soyuz is now traveling  
at 3,937 miles an hour.

36

00:03:58,537 --> 00:04:04,143

[ Silence ]

37

00:04:04,143 --> 00:04:05,744

>> At 8 minutes and 45  
seconds into the flight,

38

00:04:05,744 --> 00:04:08,814

we have third stage  
cut-off and separation.

39

00:04:08,814 --> 00:04:11,350

A single liquid fueled engine  
has shut down and dropped away

40

00:04:11,350 --> 00:04:14,086

at an altitude of about  
125 statute miles.

41

00:04:14,086 --> 00:04:14,653

>> [Foreign Language].

42

00:04:14,653 --> 00:04:17,456

Congratulations.

43

00:04:17,456 --> 00:04:22,594

>> The third stage is performing  
an avoidance maneuver.

44

00:04:22,594 --> 00:04:27,066

All the communication systems