



1
00:00:01,896 --> 00:00:03,866
This is Mission Control,
Houston.

2
00:00:03,866 --> 00:00:04,736
Welcome today

3
00:00:04,736 --> 00:00:07,636
to the International Space
Station flight control room

4
00:00:07,636 --> 00:00:10,716
where the team of experts
is watching over the systems

5
00:00:10,716 --> 00:00:12,966
for the International
Space Station

6
00:00:13,246 --> 00:00:16,086
as the crew aboard the station,

7
00:00:16,086 --> 00:00:18,616
Expedition 31 Commander
Oleg Kononenko

8
00:00:18,616 --> 00:00:22,936
and his fellow Russians Gennady
Padalka and Sergei Revin along

9
00:00:22,936 --> 00:00:27,026
with NASA astronauts
Don Pettit and Joe Acaba

10
00:00:27,146 --> 00:00:30,796
and European Space Agency
astronaut Andre Kuipers are

11
00:00:31,226 --> 00:00:34,986

midway through their day, a very busy day today of preparations

12

00:00:34,986 --> 00:00:39,056

for the departure of the Dragon commercial spacecraft

13

00:00:39,056 --> 00:00:44,406

from the Earth-facing port of the Harmony node tomorrow.

14

00:00:45,886 --> 00:00:48,766

The crew has been working to closeout hatches.

15

00:00:48,766 --> 00:00:50,266

That occurred about two hours ago,

16

00:00:51,246 --> 00:00:53,766

and we're getting some live downlink television

17

00:00:53,766 --> 00:00:56,046

as Don Pettit prepares

18

00:00:56,046 --> 00:00:58,116

to put the center cover over the hatchway.

19

00:00:58,446 --> 00:01:00,526

They've just completed the installation

20

00:01:00,526 --> 00:01:02,356

of the controller panel assemblies.

21

00:01:02,356 --> 00:01:04,576

You can see those

four square boxes

22

00:01:04,576 --> 00:01:06,226

around the edges
of the hatchway.

23

00:01:06,576 --> 00:01:11,686

Those are used to control
the 16 bolts that drive

24

00:01:11,686 --> 00:01:15,216

in to provide a snug fit
between visiting spacecraft

25

00:01:15,216 --> 00:01:18,226

and the space station's hatches.

26

00:01:19,396 --> 00:01:21,526

And all that installation
went very well,

27

00:01:21,526 --> 00:01:23,756

and now he's doing the
final installations

28

00:01:23,756 --> 00:01:25,166

of the hatch cover.

29

00:01:25,166 --> 00:01:28,886

They're going to leave one
power cable connected overnight

30

00:01:28,996 --> 00:01:31,746

and then do some final
checkouts of the bolts

31

00:01:31,746 --> 00:01:35,636

and latches tomorrow
before we do the unberthing.

32

00:01:36,026 --> 00:01:39,276

Those activities are
nominal for the release.

33

00:01:39,366 --> 00:01:42,536

Of course the crew also
doing a lot of science work

34

00:01:42,806 --> 00:01:44,476

on the space station today,

35

00:01:44,806 --> 00:01:47,436

working with several different
Russian experiments looking

36

00:01:47,436 --> 00:01:52,976

at the Earth below and how
materials behave in space.

37

00:01:53,266 --> 00:01:55,896

They also are working with
the VIABLE experiment.

38

00:01:55,896 --> 00:01:58,936

That's something that is
being done by Andre Kuipers.

39

00:01:59,086 --> 00:02:02,376

That's a name for the
Process of Relaxation

40

00:02:02,376 --> 00:02:03,526

in the [Ultraviolet]
Band Spectrum

41

00:02:03,526 --> 00:02:06,676

by High-Velocity Interaction
of Exhaust Products,

42

00:02:06,676 --> 00:02:09,006
and that's the Relaksatia
experiment, one of the ones

43

00:02:09,006 --> 00:02:10,896
that the Russian
experiments are working on.

44

00:02:11,526 --> 00:02:14,726
They're also going to be
working on, as mentioned,

45

00:02:14,726 --> 00:02:15,876
the VIABLE experiment.

46

00:02:16,286 --> 00:02:22,756
That VIABLE experiment stands
for eValuatlon And monitoring

47

00:02:22,756 --> 00:02:26,636
of microBiofiLms insidE the
International Space Station,

48

00:02:26,976 --> 00:02:31,516
and it essentially looks at
how microbe films develop

49

00:02:31,516 --> 00:02:34,486
on general surfaces,
both metallic

50

00:02:34,486 --> 00:02:39,676
and fabric inside the space
station so that they can look

51

00:02:39,676 --> 00:02:42,526
for good ways to protect
against a runaway growth

52

00:02:42,526 --> 00:02:45,016

of any of those.

53

00:02:45,756 --> 00:02:48,666

Overall, a very good day
for the International Space

54

00:02:48,666 --> 00:02:49,256

Station crew.

55

00:02:49,256 --> 00:02:51,786

They'll be knocking
off work and trying

56

00:02:51,786 --> 00:02:54,786

to shift their schedule two
hours earlier to get ready

57

00:02:54,786 --> 00:02:57,216

for tomorrow's departure
activities for Dragon.

58

00:02:57,736 --> 00:03:00,886

The release of the
Dragon spacecraft

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00:03:00,886 --> 00:03:02,616

from the robotic
arm is scheduled

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00:03:02,616 --> 00:03:05,656

for 4:35 a.m. Central time.

61

00:03:09,306 --> 00:03:12,566

There will be no need
for the use of the lidars

62

00:03:12,566 --> 00:03:15,356

or thermal imagers
as it departs,

63

00:03:15,356 --> 00:03:17,456

but there may be some
testing as they depart

64

00:03:17,456 --> 00:03:18,966

as the opportunity arises.

65

00:03:19,336 --> 00:03:21,786

We'll have Dragon
departure coverage starting

66

00:03:21,786 --> 00:03:23,546

at 1:30 a.m. Central time.

67

00:03:23,926 --> 00:03:27,686

Unberthing is scheduled
for 3:05 a.m. Central time,

68

00:03:27,686 --> 00:03:30,176

and then the release
of Dragon is scheduled

69

00:03:30,176 --> 00:03:32,376

for 4:35 a.m. Central time.

70

00:03:32,376 --> 00:03:36,206

There are going to be several
departure and deorbit burns

71

00:03:36,476 --> 00:03:41,306

that will be following up
on the Dragon departure,

72

00:03:41,806 --> 00:03:46,386

and those all will be
taking place sometime

73

00:03:46,456 --> 00:03:49,116

in the early morning timeframe

for us here in Houston.

74

00:03:52,316 --> 00:03:55,166

But all systems go on the
International Space Station

75

00:03:55,166 --> 00:03:57,576

as the crew is getting
ready to see the departure

76

00:03:57,576 --> 00:03:59,526

of the first commercial
spaceflight

77

00:04:00,116 --> 00:04:02,096

to the International
Space Station.

78

00:04:02,696 --> 00:04:06,766

The station visiting
vehicle Dragon is packed full

79

00:04:06,766 --> 00:04:10,426

of return items, experiment
samples and items that are going

80

00:04:10,426 --> 00:04:14,746

to be refurbished for future
use on board the space station.