1
00:00:02,720 --> 00:00:04,680
This is Mission Control Houston.

2
00:00:04,680 --> 00:00:10,000
Wednesday, a short workday in
space for the Expedition 33 crew

3
00:00:10,000 --> 00:00:12,440
on board the International
Space Station.

4
00:00:12,440 --> 00:00:16,470
That was following up a longer
than usual day on Tuesday

5
00:00:16,470 --> 00:00:20,670
for Commander Suni Williams,
Flight Engineer Yuri Malenchenko

6
00:00:20,670 --> 00:00:22,930
and Flight Engineer Aki Hoshide

7
00:00:22,930 --> 00:00:25,490
as they were supporting the
planned departure of one

8
00:00:25,490 --> 00:00:27,710
of the station's cargo vehicles.

9
00:00:27,710 --> 00:00:29,150
The planned undocking

10
00:00:29,150 --> 00:00:33,460
of the Automated Transfer
Vehicle was aborted

11
00:00:33,460 --> 00:00:36,960
on Tuesday afternoon due to
a failure of communications

12
00:00:36,960 --> 00:00:41,440
between the Russian Zvezda
module and the ATV itself.

13
00:00:41,440 --> 00:00:43,620
The mission control team

14
00:00:43,620 --> 00:00:47,540
in Moscow has understood
what caused that error

15
00:00:47,540 --> 00:00:51,950
and are prepared to support
another undocking attempt

16
00:00:51,950 --> 00:00:54,400
of the ATV as soon as
a determination is made

17
00:00:54,400 --> 00:00:56,280
about when that will happen.

18
00:00:56,280 --> 00:00:58,370
Meantime, flight
control teams here

19
00:00:58,370 --> 00:01:00,960
in Houston have also
been tracking a piece

20
00:01:00,960 --> 00:01:04,190
of Russian Cosmos
satellite debris

21
00:01:04,190 --> 00:01:08,320
that is currently considered
a possible conjunction

22

00:01:08,320 --> 00:01:10,320
with the International
Space Station

23
00:01:10,320 --> 00:01:15,550
at about 9:42 central
time on Thursday morning.

24
00:01:15,550 --> 00:01:18,780
The flight teams in Houston
have been given instructions

25
00:01:18,780 --> 00:01:22,700
to begin planning for a possible
debris avoidance maneuver

26
00:01:22,700 --> 00:01:25,320
which would take place
early Thursday morning

27
00:01:25,320 --> 00:01:30,540
at approximately 7:12
Houston time and the undocking

28
00:01:30,540 --> 00:01:32,370
of the ATV another attempt

29
00:01:32,370 --> 00:01:35,030
at undocking the ATV
would not be made

30
00:01:35,030 --> 00:01:37,910
until Friday at the earliest.

31
00:01:37,910 --> 00:01:42,120
For the crew members themselves,
they had an abbreviated day.

32
00:01:42,120 --> 00:01:46,540
They were allowed to sleep since

they were up late on Tuesday.

33
00:01:46,540 --> 00:01:50,180
Flight Commander Suni
Williams spent part

34
00:01:50,180 --> 00:01:54,070
of her day prepacking
items for return

35
00:01:54,070 --> 00:01:56,460
on board the Dragon spacecraft.

36
00:01:56,460 --> 00:01:58,880
The commercial cargo
vehicle, that's targeted

37
00:01:58,880 --> 00:02:00,940
for its first operational
mission

38
00:02:00,940 --> 00:02:03,060
to the space station next month.

39
00:02:03,060 --> 00:02:06,790
She also spent time inspecting
portable fire extinguishers

40
00:02:06,790 --> 00:02:08,890
and breathing apparatus
and wrapped

41
00:02:08,890 --> 00:02:12,930
up the day stowing materials
from Monday's maintenance work

42
00:02:12,930 --> 00:02:15,050
when she replaced some valves

43

00:02:15,050 --> 00:02:18,050
in the carbon dioxide
removal system.

44
00:02:18,050 --> 00:02:20,640
Yuri Malenchenko spent
the his morning working

45
00:02:20,640 --> 00:02:24,100
with a Russian experiment
called Pneumocard.

46
00:02:24,100 --> 00:02:27,370
That's an investigation of
the factors that cause changes

47
00:02:27,370 --> 00:02:29,790
in blood circulation,
heart function

48
00:02:29,790 --> 00:02:32,060
and respiration on orbit.

49
00:02:32,060 --> 00:02:35,940
He also took note of all
the crew's activities

50
00:02:35,940 --> 00:02:39,340
for Russian experiments on
crew interactions as well

51
00:02:39,340 --> 00:02:41,210
as took care of regular
maintenance

52
00:02:41,210 --> 00:02:43,720
in the Russian segment
of the space station.

53
00:02:43,720 --> 00:02:48,320

For Flight Engineer Aki Hoshide
he started off his day setting

54
00:02:48,320 --> 00:02:54,320
up hardware for operations with
the Sprint VO2max investigation

55
00:02:54,320 --> 00:02:58,430
which is actually a
combination of two experiments.

56
00:02:58,430 --> 00:02:59,880
Sprint is looking

57
00:02:59,880 --> 00:03:04,280
at how high-intensity
exercise can help minimize bone

58
00:03:04,280 --> 00:03:06,330
and muscle loss for
the crew members.

59
00:03:06,330 --> 00:03:08,780
The VO2max measures the changes

60
00:03:08,780 --> 00:03:12,020
in the crew member's
oxygen uptake.

61
00:03:12,020 --> 00:03:15,340
Hoshide also started the
depressurization of the airlock

62
00:03:15,340 --> 00:03:18,190
in the Kibo module
for planned operations

63
00:03:18,190 --> 00:03:21,310
with the Small Satellite
Orbital Deployer

64
00:03:21,310 --> 00:03:24,250
which will test a new system
for deploying a series

65
00:03:24,250 --> 00:03:27,670
of small satellites from
the external facility

66
00:03:27,670 --> 00:03:32,400
of the Kibo module with the help
of the Japanese robotic arm.

67
00:03:32,400 --> 00:03:36,060
The Small Satellite Orbital
Deployer operations are probably

68
00:03:36,060 --> 00:03:37,650
going to be postponed.

69
00:03:37,650 --> 00:03:41,450
They will fall victim
to the current planning

70
00:03:41,450 --> 00:03:45,500
that is underway for a possible
debris avoidance maneuver.

71
00:03:45,500 --> 00:03:47,930
The decision made
on whether or not