



1  
00:00:02,410 --> 00:00:05,150  
Greetings from mission  
control Houston and welcome

2  
00:00:05,150 --> 00:00:08,180  
to today's International  
Space Station update.

3  
00:00:08,180 --> 00:00:10,410  
You are joining us here inside  
of the flight control room

4  
00:00:10,410 --> 00:00:11,980  
at the Johnson space  
Center in Houston,

5  
00:00:11,980 --> 00:00:14,350  
Texas where the orbit  
two team is currently

6  
00:00:14,350 --> 00:00:17,570  
on console monitoring all the  
respective systems onboard the

7  
00:00:17,570 --> 00:00:19,970  
orbiting laboratory.

8  
00:00:19,970 --> 00:00:23,270  
Today's team being led today  
by Flight Director Ed Van Cise,

9  
00:00:23,270 --> 00:00:25,040  
there on the right,  
and joining him

10  
00:00:25,040 --> 00:00:27,190  
at the capcom position  
is Kathy Bolt,

11

00:00:27,190 --> 00:00:29,800  
serving as the communication  
link between controllers

12  
00:00:29,800 --> 00:00:33,710  
down here on the ground  
and astronauts up in space.

13  
00:00:33,710 --> 00:00:38,660  
Those astronauts right now  
are the crew of Expedition 32.

14  
00:00:38,660 --> 00:00:43,320  
Moving into well over 100 days  
for three or crew members,

15  
00:00:43,320 --> 00:00:46,460  
on their 107th day onboard  
International Space Station.

16  
00:00:46,460 --> 00:00:48,670  
We will start over on the left,

17  
00:00:48,670 --> 00:00:50,570  
we have Japanese  
astronaut Aki Hoshide,

18  
00:00:50,570 --> 00:00:53,320  
then Russian cosmonaut  
Yuri Malenchenko,

19  
00:00:53,320 --> 00:00:56,540  
then another NASA  
astronaut Suni Williams.

20  
00:00:56,540 --> 00:00:59,210  
Next to her is NASA  
astronaut Joe Acaba,

21  
00:00:59,210 --> 00:01:02,670

then Expedition 32  
Commander Gennady Padalka

22  
00:01:02,670 --> 00:01:05,440  
of the Russian space agency, and  
all the way on the right there,

23  
00:01:05,440 --> 00:01:08,200  
is our third Russian  
cosmonaut Sergei Revin.

24  
00:01:08,200 --> 00:01:11,910  
The crew in a half duty  
day today as they continued

25  
00:01:11,910 --> 00:01:14,240  
to prepare for tomorrow's  
spacewalk,

26  
00:01:14,240 --> 00:01:18,230  
where NASA astronaut Suni  
Williams and Japanese

27  
00:01:18,230 --> 00:01:22,380  
as Aki Hoshide will be stepping  
outside of the station's airlock

28  
00:01:22,380 --> 00:01:26,700  
for 6 1/2 hour excursion to  
replace a faulty power unit

29  
00:01:26,700 --> 00:01:29,330  
and then rig-up a  
couple of power cables

30  
00:01:29,330 --> 00:01:31,150  
for future Russian  
laboratory module,

31  
00:01:31,150 --> 00:01:32,440

and also replace a camera.

32

00:01:32,440 --> 00:01:36,000

You can see them going  
through and getting their suits

33

00:01:36,000 --> 00:01:39,760

and all their tools ready for  
their final preparations here.

34

00:01:39,760 --> 00:01:42,310

So again, the crew  
in an off-duty day.

35

00:01:42,310 --> 00:01:46,410

Joe Acaba was reviewing some of  
those spacewalk procedures along

36

00:01:46,410 --> 00:01:48,160

with Williams and Hoshide.

37

00:01:48,160 --> 00:01:51,500

And while he won't be stepping  
outside, he will be kind

38

00:01:51,500 --> 00:01:53,720

of quarterbacking the  
entire thing from inside

39

00:01:53,720 --> 00:01:57,180

of the space station and  
providing them robotic support.

40

00:01:57,180 --> 00:01:59,860

Aside from that, Acaba  
was also working today

41

00:01:59,860 --> 00:02:03,200

to install a secondary  
power distribution assembly,

42

00:02:03,200 --> 00:02:08,010  
that is a power jumper designed  
to ensure the powers provided

43

00:02:08,010 --> 00:02:11,600  
to vital station systems  
should anything occur,

44

00:02:11,600 --> 00:02:13,340  
and while they're out there

45

00:02:13,340 --> 00:02:17,620  
on replacing those failed  
multi-switching unit power relay

46

00:02:17,620 --> 00:02:20,840  
out on the station's truss.

47

00:02:20,840 --> 00:02:23,620  
Astronaut Suni Williams  
is spending most

48

00:02:23,620 --> 00:02:26,580  
of her day today preparing  
that equipment lock

49

00:02:26,580 --> 00:02:28,650  
and configuring all  
the tools that her

50

00:02:28,650 --> 00:02:31,340  
and Aki will be using  
during their spacewalk.

51

00:02:31,340 --> 00:02:32,850  
You can see them here inside

52

00:02:32,850 --> 00:02:35,370

of the airlock getting  
those suits ready.

53

00:02:35,370 --> 00:02:39,020

She was joined by Hoshide  
in all the preparation

54

00:02:39,020 --> 00:02:43,670

and Aki was also going through  
his last procedure review

55

00:02:43,670 --> 00:02:46,850

with teams down here on the  
ground, along with Williams,

56

00:02:46,850 --> 00:02:50,160

while they continue to make  
sure everything is choreographed

57

00:02:50,160 --> 00:02:53,490

up correctly and  
they're ready to go.

58

00:02:53,490 --> 00:02:56,500

Meanwhile, our Russian  
cosmonauts onboard the station

59

00:02:56,500 --> 00:02:59,640

are doing a few maintenance  
activities

60

00:02:59,640 --> 00:03:01,480

and biological experiments.

61

00:03:01,480 --> 00:03:04,900

Commander Padalka replacing a  
battery unit inside the Zvezda

62

00:03:04,900 --> 00:03:09,520

service module, tagging up

with experts down on the ground

63

00:03:09,520 --> 00:03:11,010  
at the Russian mission  
control center.

64

00:03:11,010 --> 00:03:13,850  
While he goes through  
with that process,

65

00:03:13,850 --> 00:03:17,680  
Sergei Revin working today  
on the Typology experiment,

66

00:03:17,680 --> 00:03:21,660  
which looks to study  
and develop methods

67

00:03:21,660 --> 00:03:25,030  
to improve the cosmonauts  
readiness for on various types

68

00:03:25,030 --> 00:03:29,240  
of operator activities, which  
can be impaired due to the rush

69

00:03:29,240 --> 00:03:30,940  
of blood to the head  
that is natural

70

00:03:30,940 --> 00:03:33,940  
in the weightless environment of  
the International Space Station.

71

00:03:33,940 --> 00:03:36,450  
So he goes through a number

72

00:03:36,450 --> 00:03:41,060  
of tasks including  
question-and-answer games

73

00:03:41,060 --> 00:03:44,220  
on a computer, and then they  
are all logged and then studied

74

00:03:44,220 --> 00:03:46,700  
by researchers down  
here on the ground.

75

00:03:46,700 --> 00:03:48,940  
Revin was also going  
through the Zvezda

76

00:03:48,940 --> 00:03:51,890  
and Zarya modules today  
taking some air samples,

77

00:03:51,890 --> 00:03:54,710  
as they constantly monitor  
the breathing atmosphere

78

00:03:54,710 --> 00:03:57,030  
for these astronauts  
onboard the station,

79

00:03:57,030 --> 00:03:59,820  
checking for any contaminants

80

00:03:59,820 --> 00:04:04,310  
or potential hazardous gas  
buildups, like a carbon dioxide.

81

00:04:04,310 --> 00:04:08,390  
The third Russian cosmonaut and  
final Expedition 32 crew member,

82

00:04:08,390 --> 00:04:12,260  
Yuri Malenchenko,  
is doing an audit

83

00:04:12,260 --> 00:04:13,700  
of the station's medical kit,

84

00:04:13,700 --> 00:04:15,630  
making sure everything  
is in place.

85

00:04:15,630 --> 00:04:20,130  
These medical kits onboard the  
station always there in case

86

00:04:20,130 --> 00:04:23,250  
for emergency should anything  
happen all the crew members

87

00:04:23,250 --> 00:04:27,170  
having some medical proficiency  
training and always being backed

88

00:04:27,170 --> 00:04:29,040  
up by teams here on the ground.

89

00:04:29,040 --> 00:04:32,840  
Malenchenko also worked today  
on the Pneumocard experiment,

90

00:04:32,840 --> 00:04:34,870  
which looks to study  
the adaptation

91

00:04:34,870 --> 00:04:36,840  
of the cardiovascular  
systems inside

92

00:04:36,840 --> 00:04:39,430  
of these crew members  
during their long-duration

93

00:04:39,430 --> 00:04:41,170

microgravity missions.

94

00:04:41,170 --> 00:04:43,700

But again, crew on a  
half-duty day for today.

95

00:04:43,700 --> 00:04:46,670

All things looking forward  
to that spacewalk scheduled

96

00:04:46,670 --> 00:04:49,610

to begin tomorrow  
at 7:15 a.m. CT.

97

00:04:49,610 --> 00:04:54,270

We will be bringing you  
coverage of the EVA live here

98

00:04:54,270 --> 00:04:58,230

on NASA Television, coverage  
kicking-off at 6 a.m. CT,

99

00:04:58,230 --> 00:05:01,650

7 a.m. ET, with the  
two astronauts Williams