



1
00:00:01,640 --> 00:00:03,030
This is Mission Control Houston.

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00:00:03,030 --> 00:00:04,529
Welcome to today's ISS update.

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00:00:04,529 --> 00:00:07,589
it is Friday, October 19, 2012.

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00:00:07,589 --> 00:00:11,380
This is a live view inside the space station
flight control room here at the Johnson space

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00:00:11,380 --> 00:00:12,380
center.

6
00:00:12,380 --> 00:00:14,700
This is the orbit two team that is currently
on console.

7
00:00:14,700 --> 00:00:17,189
The flight director today is Matt Abbott.

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00:00:17,189 --> 00:00:18,380
He is there in the blue shirt.

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00:00:18,380 --> 00:00:21,560
Sitting beside him is veteran astronaut Anna
Fisher.

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00:00:21,560 --> 00:00:26,250
She is serving as today's Capcom, the voice
of this team up to the crew onboard the international

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00:00:26,250 --> 00:00:27,320
space station.

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00:00:27,320 --> 00:00:31,699

On board the complex right now is Suni Williams who is the commander of expedition 33.

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00:00:31,699 --> 00:00:32,829

She's there on the left.

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00:00:32,829 --> 00:00:38,870

Yuri Malenchenko, who is a flight engineer for expedition 33 as well as Aki Hoshide.

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00:00:38,870 --> 00:00:43,090

They are busy today working on a variety of different science experiments, research activities

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00:00:43,090 --> 00:00:46,620

and also some routine maintenance inside the living quarters.

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00:00:46,620 --> 00:00:51,980

There's Suni Williams there working inside unity node.

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00:00:51,980 --> 00:00:55,649

She has been taking some surface samples today for what's called microbial analysis.

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00:00:55,649 --> 00:00:57,390

We talked about this earlier this week.

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00:00:57,390 --> 00:01:03,039

The crew takes various samples around the complex, both of the air, the water and the

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00:01:03,039 --> 00:01:08,180

surfaces themselves just make sure that the station is in proper working order, is in

22

00:01:08,180 --> 00:01:11,030

a good clean condition for the crew members.

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00:01:11,030 --> 00:01:14,880
So she will take those samples and they will be analyzed using the environmental health

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00:01:14,880 --> 00:01:18,100
system surface sample kit.

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00:01:18,100 --> 00:01:21,729
She's going to be performing a check out of the SAFER.

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00:01:21,729 --> 00:01:23,880
This is the Simplified Aid For EVA Rescue.

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00:01:23,880 --> 00:01:30,440
The SAFER's sort of the jet backpack that the crew uses any time you do a spacewalk.

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00:01:30,440 --> 00:01:34,110
She and Aki Hoshide are getting ready for a spacewalk that is currently targeted for

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00:01:34,110 --> 00:01:35,799
November 1.

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00:01:35,799 --> 00:01:40,810
This will be a 6 1/2 hour excursion outside the international space station on that day

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00:01:40,810 --> 00:01:45,990
to take care of an ammonia leak that has sort of increased here lately.

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00:01:45,990 --> 00:01:47,950
But they're going to be mitigating that.

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00:01:47,950 --> 00:01:53,830
That spacewalk will begin at 7:15 AM central time on the first 8:15 AM Eastern time.

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00:01:53,830 --> 00:01:58,820

Of course we'll have live coverage here on NASA television of all that.

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00:01:58,820 --> 00:02:02,930

Williams also has a ham pass today, a ham radio pass with the Wattsburg area school

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00:02:02,930 --> 00:02:06,009

district, which is up in Erie, Pennsylvania.

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00:02:06,009 --> 00:02:11,550

She's also going to be talking with the ground teams later on today about that upcoming

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00:02:11,550 --> 00:02:15,650

spacewalk, just reviewing the procedures that have been scheduled for her.

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00:02:15,650 --> 00:02:20,780

There you see the bag that holds the SAFERs that she is working on right now, but they're

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00:02:20,780 --> 00:02:24,730

going to be talking with the spacewalk team here in Houston that has designed a spacewalk.

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00:02:24,730 --> 00:02:29,370

They've been running simulated spacewalks in the neutral buoyancy laboratory here in

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00:02:29,370 --> 00:02:33,920

Houston just to time everything out, make sure they have everything scheduled for the

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00:02:33,920 --> 00:02:34,920

crew.

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00:02:34,920 --> 00:02:38,480

Again it's going to be 6 1/2 hours and they're going to be going outside Aki Hoshide and

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00:02:38,480 --> 00:02:43,450

Suni Williams to take care of an ammonia leak that is on what's called the P6 radiator.

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00:02:43,450 --> 00:02:47,970

This is the portside truss, the left side truss of the space station itself.

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00:02:47,970 --> 00:02:52,470

There is ammonia that is circulated throughout those radiators that helps cool the areas

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00:02:52,470 --> 00:02:55,310

of the station out there by the solar panels.

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00:02:55,310 --> 00:03:01,239

There's another loop in the middle portion of the station that circulates fluids to help

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00:03:01,239 --> 00:03:05,709

keep the actual modules themselves cool but this is not that loop, this is a secondary

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00:03:05,709 --> 00:03:10,549

loop that is out there on the end of the station's truss structure.

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00:03:10,549 --> 00:03:14,879

Aki Hoshide is sampling air inside the station today just like what Suni Williams is doing

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00:03:14,879 --> 00:03:16,099

with the surfaces.

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00:03:16,099 --> 00:03:20,370

He's going to be performing a checkout of

what's called the multipurpose small payload

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00:03:20,370 --> 00:03:24,180
rack of MSPR video signal converter, basically
a camera system.

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00:03:24,180 --> 00:03:29,189
He's going to be setting up some cameras
for the upcoming spacewalk, the two crew members

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00:03:29,189 --> 00:03:33,200
will be wearing helmet cams on the top of
their spacesuits, which will give us up close

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00:03:33,200 --> 00:03:35,099
views of what they're going to be doing.

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00:03:35,099 --> 00:03:39,879
And he's going to be installing some radiation
environment monitors throughout the station

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00:03:39,879 --> 00:03:44,620
just to make sure that the radiation levels
there are safe.

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00:03:44,620 --> 00:03:48,830
Yuri Malenchenko also working in the Russian
segment of the station doing some different

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00:03:48,830 --> 00:03:49,830
experiments there.

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00:03:49,830 --> 00:03:53,659
He's been busy this week working on some
Earth observation experiments taking a look

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00:03:53,659 --> 00:03:58,049
down at the upper reaches of Earth's atmosphere.

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00:03:58,049 --> 00:03:59,299

So he will continue that.

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00:03:59,299 --> 00:04:03,769

Meanwhile, the three remaining crew members of Expedition 33 are down on the ground at

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00:04:03,769 --> 00:04:04,849

the Baikonur Cosmodrome.

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00:04:04,849 --> 00:04:10,090

They are getting ready for their launch coming up on Tuesday but they are undergoing final

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00:04:10,090 --> 00:04:15,030

checkouts and some final procedure reviews as they get ready for that Tuesday launch.

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00:04:15,030 --> 00:04:21,640

Their Soyuz spacecraft that's going to be taking them up into space which is the TMA-06M

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00:04:21,640 --> 00:04:25,940

was encapsulated inside the upper portion of that Soyuz rocket today.

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00:04:25,940 --> 00:04:31,830

The rocket itself is going to be mated tomorrow and then Sunday will be rollout day and then