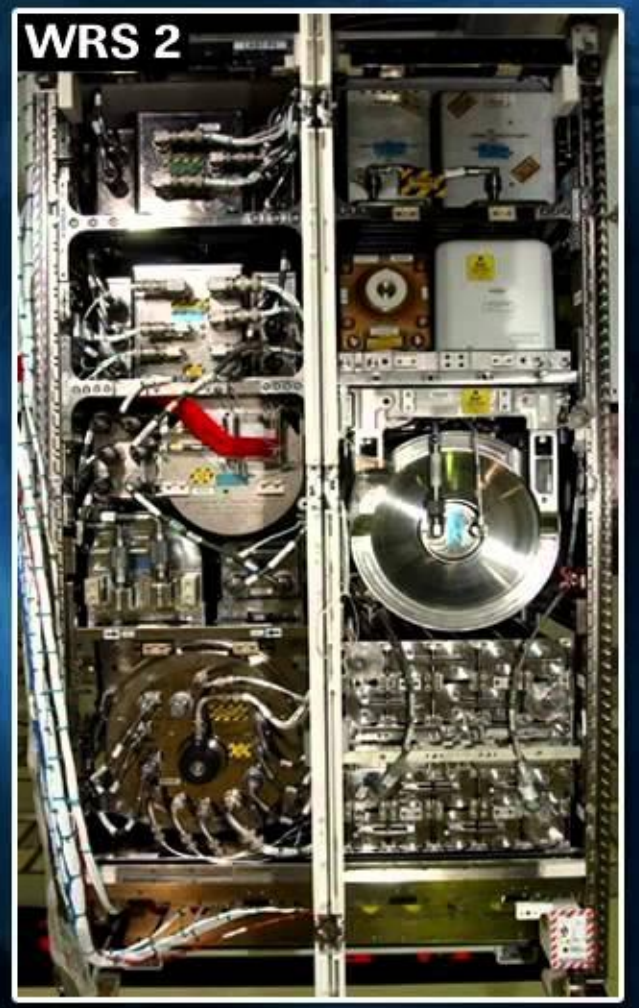
Water Recovery System



1
00:00:01,430 --> 00:00:04,090
Good morning, this is Mission Control Houston.

2
00:00:04,090 --> 00:00:09,020
Thank you for joining us for today's
ISS Update this Thursday, September 22.

3
00:00:09,020 --> 00:00:11,820
Aboard the orbiting complex,
station Commander Mike Fossum

4
00:00:11,820 --> 00:00:15,780
and Flight Engineers Satoshi
Furukawa and Sergei Volkov are working

5
00:00:15,780 --> 00:00:21,170
through their first full week aboard the
orbiting complex as the Expedition 29 crew

6
00:00:21,170 --> 00:00:24,850
since the departure last week of
their Expedition 28 crew members.

7
00:00:24,850 --> 00:00:28,000
Commander Fossum, Volkov and
Furukawa docked to the Rassvet module

8
00:00:28,000 --> 00:00:32,460
of the space station this summer on
June 9 aboard their Soyuz spacecraft.

9
00:00:32,460 --> 00:00:36,210
They have completed their 100th
consecutive day in space last week

10
00:00:36,210 --> 00:00:39,090
with a couple months remaining
of their stay in space.

11

00:00:39,090 --> 00:00:42,880
Meanwhile astronaut Dan Burbank
and cosmonauts Anton Shkaplerov

12
00:00:42,880 --> 00:00:47,410
and Anatoly Ivanishin are scheduled to join
the crew of three there on the space station

13
00:00:47,410 --> 00:00:50,520
after their launch on November
14 and to up the full crew

14
00:00:50,520 --> 00:00:53,730
and complete the mission of Expedition 29.

15
00:00:53,730 --> 00:00:58,240
On orbit the Expedition crew members are busy
supporting ongoing research into the effects

16
00:00:58,240 --> 00:01:02,330
of microgravity on the human body,
biology, physics and materials,

17
00:01:02,330 --> 00:01:06,330
as well as performing regular maintenance
activities to their orbital home away from home.

18
00:01:06,330 --> 00:01:11,720
After the crew's wakeup at 1 a.m. Central
time today, the Expedition crew participated

19
00:01:11,720 --> 00:01:15,320
in the first of two daily planning
conferences with ground controllers

20
00:01:15,320 --> 00:01:18,780
at mission control centers around the
world to review the day's activities

21
00:01:18,780 --> 00:01:20,890

and plan for the next set of tasks.

22
00:01:20,890 --> 00:01:24,430
The crew will participate in another daily
planning conference just before entering its

23
00:01:24,430 --> 00:01:26,060
pre-sleep period.

24
00:01:26,060 --> 00:01:29,890
The crew is then scheduled to go to
bed at 4:30 p.m. Central time today.

25
00:01:29,890 --> 00:01:33,890
Commander Mike Fossum and Flight
Engineer Satoshi Furukawa are wrapping

26
00:01:33,890 --> 00:01:37,120
up an educational demonstration
on advanced robotics.

27
00:01:37,120 --> 00:01:41,150
The pair recorded an educational
video on Robonaut 2, or R2,

28
00:01:41,150 --> 00:01:46,560
the first dexterous humanoid robot in space
that could one day assist a future crew

29
00:01:46,560 --> 00:01:50,640
with repetitive tasks or tasks
too dangerous for humans on orbit.

30
00:01:50,640 --> 00:01:55,560
While Furukawa will then stow away the
hardware used for the educational video,

31
00:01:55,560 --> 00:02:00,660
Fossum will spend much of the hour on
critical station responsibilities preparing

32
00:02:00,660 --> 00:02:03,360
and emptying a waste urine
container in preparation

33
00:02:03,360 --> 00:02:07,040
for tomorrow's repair to
the Water Recovery System.

34
00:02:07,040 --> 00:02:11,310
Meanwhile on the Russian side of the
house Flight Engineer Volkov is tending

35
00:02:11,310 --> 00:02:16,820
to the Russian Plants-2 experiment, watering
and photographing the experiment plants onboard.

36
00:02:16,820 --> 00:02:20,400
Volkov also will perform regular
maintenance to the Sozh system.

37
00:02:20,400 --> 00:02:23,750
This is the Russian environment
and life support system.

38
00:02:23,750 --> 00:02:27,730
At the bottom of today's update hour, he
and Furukawa will put in their second hour

39
00:02:27,730 --> 00:02:32,290
of their daily two-hour planned exercise regime.

40
00:02:32,290 --> 00:02:36,720
Earlier this morning Commander Fossum and
Furukawa collected more biology samples as part

41
00:02:36,720 --> 00:02:39,410
of a mycology evaluation and stored the samples

42

00:02:39,410 --> 00:02:43,710
in the Minus Eighty Degree
Laboratory Freezer for later analysis.

43
00:02:43,710 --> 00:02:49,140
Flight Engineer Sergei Volkov conducted a
several window inspections and photography

44
00:02:49,140 --> 00:02:52,770
on the Russian segment of the station
and also performed an oxygen repress

45
00:02:52,770 --> 00:02:55,990
from the docked Progress resupply ship.

46
00:02:55,990 --> 00:02:59,910
Later today Fossum will participate
in an Inventory Management System

47
00:02:59,910 --> 00:03:05,290
and stowage conference with the ground and
wrap up this, his two hour exercise regime

48
00:03:05,290 --> 00:03:08,920
with an hour of strength training using
the Advanced Resistive Exercise Device

49
00:03:08,920 --> 00:03:11,120
that simulates weightlifting here on Earth.

50
00:03:11,120 --> 00:03:16,800
Furukawa will participate in onboard
training of evaluation and monitoring

51
00:03:16,800 --> 00:03:20,530
of microbiofilms inside the
International Space Station.

52
00:03:20,530 --> 00:03:25,450
He also will join elementary students in

Louisiana via ham radio to talk about life

53
00:03:25,450 --> 00:03:27,640
in space and other space related subjects.