



1

00:00:01,416 --> 00:00:03,576

Good morning this is Mission Control Houston.

2

00:00:03,606 --> 00:00:08,076

Thank you for joining us for today's edition of ISS update this Thursday, Feb. 9.

3

00:00:08,636 --> 00:00:11,376

Today station Commander Dan Burbank is working

4

00:00:11,406 --> 00:00:16,626

to temporarily install the Total Organic [Carbon] Analyzer unit in the lab

5

00:00:16,866 --> 00:00:19,916

to cycle the gas mass flow controllers.

6

00:00:20,246 --> 00:00:25,596

The Total Organic Carbon Analyzer, or the TOCA, is used to quality test the onboard water supply

7

00:00:25,596 --> 00:00:27,646

to ensure its safety for crew consumption.

8

00:00:28,126 --> 00:00:30,926

Andre Kuipers will be assisting him in the installation

9

00:00:30,926 --> 00:00:33,786

of the nitrogen hose for the Water Monitoring System.

10

00:00:34,416 --> 00:00:38,046

Kuipers is also busy with unpacking of items brought up on the Progress.

11

00:00:38,796 --> 00:00:43,046

Cosmonauts Anton Shkaplerov and Anatoly Ivanishin are working on the installation

12
00:00:43,046 --> 00:00:46,816
of the Progress hatch mechanism
for tomorrow's hatch closures

13
00:00:47,076 --> 00:00:50,086
in advance of next Thursday's spacewalk.

14
00:00:50,626 --> 00:00:54,926
The Progress hatches need to be closed
since the spacewalk will be taking place

15
00:00:54,926 --> 00:00:58,776
out of the Pirs docking compartment
airlock to which the Progress is docked.

16
00:00:59,296 --> 00:01:04,036
And Flight Engineers Oleg Kononenko
and Don Pettit are now taking a break

17
00:01:04,036 --> 00:01:07,856
from their work activities for an
hour of their two-hour daily exercise.

18
00:01:07,856 --> 00:01:12,176
Exercise is an essential
activity for all the crew members

19
00:01:12,206 --> 00:01:16,616
to help mitigate the negative effects of the
microgravity during long-duration spaceflight.

20
00:01:17,256 --> 00:01:20,586
Earlier this morning aboard the
International Space Station Commander Burbank

21
00:01:20,586 --> 00:01:25,836
and Andre Kuipers collected blood and
urine samples as part of the Sodium Loading

22
00:01:25,836 --> 00:01:30,576
in Microgravity study that looks at fluid and salt retention in the body during spaceflight.

23
00:01:30,576 --> 00:01:34,916
This has been an ongoing experiment that the pair has been working on.

24
00:01:35,386 --> 00:01:39,426
Meanwhile Burbank spent a few hours removing the Data Multiplexer

25
00:01:39,526 --> 00:01:42,556
from the Inter-Orbit Communications System rack in Kibo

26
00:01:42,926 --> 00:01:45,886
for return aboard the SpaceX Dragon spacecraft.

27
00:01:46,806 --> 00:01:51,706
He had also spent some time performing a checkout of the U.S. spacesuit lights and camera

28
00:01:51,706 --> 00:01:55,926
that will be used with the Russian Orlan spacesuits for next week's scheduled spacewalk.

29
00:01:56,516 --> 00:02:01,656
Anton Shkaplerov and Oleg Kononenko continue their preparations for that spacewalk on Feb.

30
00:02:01,656 --> 00:02:07,286
16. The pair continued spacesuit preparation with the checkout

31
00:02:07,286 --> 00:02:12,606
of the Orlan spacesuits' communications and biomedical sensors and installation

32

00:02:12,606 --> 00:02:16,766
of the add-on U.S. hardware, the lights
and camera that were checked out.

33
00:02:17,526 --> 00:02:21,616
Earlier the spacewalk duo
along with their crewmate

34
00:02:21,616 --> 00:02:26,206
and Flight Engineer Don Pettit also reviewed
the crew airlock procedure in preparation

35
00:02:26,206 --> 00:02:29,086
for the five-and-a-half-hour
excursion outside the complex.

36
00:02:29,696 --> 00:02:32,086
Flight Engineer Don Pettit
spent much of the morning

37
00:02:32,086 --> 00:02:36,096
and will continue throughout his day
working with the Structure and Liftoff

38
00:02:36,096 --> 00:02:38,226
In Combustion Experiment, or SLICE,

39
00:02:38,716 --> 00:02:42,476
and the Microgravity Science
Glovebox performing flame tests.

40
00:02:42,756 --> 00:02:46,786
The results from these experiments could lead
to improvements in technologies which aim

41
00:02:46,786 --> 00:02:50,016
to reduce pollution emissions
and improve burning efficiency