



1

00:00:03,220 --> 00:00:07,820

Good morning and welcome to today's
International Space Station update hour.

2

00:00:07,820 --> 00:00:12,760

You're joining us now inside of Mission Control
Houston, where the orbit two team is currently

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00:00:12,760 --> 00:00:17,770

on console monitoring systems on
board the orbiting laboratory.

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00:00:17,770 --> 00:00:23,670

They're being led today by flight director
Chris Edelen, seen there on your screen.

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00:00:23,670 --> 00:00:30,090

And joining him just little later at
the Capcom console will be Rick Davis.

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00:00:30,090 --> 00:00:35,660

Onboard the crew of Expedition 30 is enjoying an
off-duty day as they were involved in a flurry

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00:00:35,660 --> 00:00:40,860

of activity over the weekend involving
the ATV-3 cargo resupply vehicle.

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00:00:40,860 --> 00:00:45,900

Comprising that crew of Expedition 30
you can see on the left in the front row,

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00:00:45,900 --> 00:00:50,140

Expedition 30 Commander and
NASA astronaut Dan Burbank.

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00:00:50,140 --> 00:00:57,960

And behind him are his fellow 28 Soyuz crew
members Anton Shkaplerov and Anatoly Ivanishin.

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00:00:57,960 --> 00:01:01,300

The right side we have the crew of the 29th Soyuz.

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00:01:01,300 --> 00:01:04,840

In the front row Russian cosmonaut Oleg Kononenko.

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00:01:04,840 --> 00:01:11,980

Behind him, European Space Agency astronaut Andre Kuipers and NASA astronaut Don Pettit.

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00:01:11,980 --> 00:01:16,230

As mentioned the crew today is in an off-duty day with Burbank,

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00:01:16,230 --> 00:01:21,240

Pettit and Kuipers only having their scheduled exercise periods on today's timeline.

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00:01:21,240 --> 00:01:25,090

The Russian crew members will be doing a few maintenance activities

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00:01:25,090 --> 00:01:30,050

on board the Russian segment, doing a remove and replacement work for a failed separator

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00:01:30,050 --> 00:01:35,130

in the Russian toilet system, and also participating in the Bar experiment which looks

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00:01:35,130 --> 00:01:39,520

to develop methods for detecting depressurization in any

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00:01:39,520 --> 00:01:42,480

of the modules onboard International Space Station.

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00:01:42,480 --> 00:01:49,820
This off-duty day today is due to the work
that was done over the weekend in order

22
00:01:49,820 --> 00:01:52,490
to connect a backup power channel

23
00:01:52,490 --> 00:02:00,880
to the European Space Agency's Edoardo Amaldi
Automated Transfer Vehicle or ATV-3 cargo ship.

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00:02:00,880 --> 00:02:08,470
This was necessary after a power failure, the
primary channel of the system providing power

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00:02:08,470 --> 00:02:12,250
to this ATV vehicle, the
Russian equipment control system

26
00:02:12,250 --> 00:02:20,170
or RECS failed late Thursday during air
scrubbing of the interior of the ATV.

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00:02:20,170 --> 00:02:24,550
So all day Saturday, the
crew in order to prepare

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00:02:24,550 --> 00:02:34,960
for a potential undocking were busy
removing cargo using a checklist on giving

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00:02:34,960 --> 00:02:38,830
up their off-duty time on Saturday
to unload any of the critical cargo

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00:02:38,830 --> 00:02:41,590
from ATV early on Saturday morning.

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00:02:41,590 --> 00:02:47,290

They used a priority list in moving bags of vital supplies such as clothing, food,

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00:02:47,290 --> 00:02:51,240

spare parts and other crew provisions from the European ship

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00:02:51,240 --> 00:02:54,420

onto the International Space Station.

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00:02:54,420 --> 00:03:00,820

And then while they did that, flight controllers here in NASA's Mission Control Houston and also

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00:03:00,820 --> 00:03:04,490

at the European Space Agency's ATV control center in Toulouse,

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00:03:04,490 --> 00:03:09,330

France and the Russian mission control center outside Moscow worked

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00:03:09,330 --> 00:03:13,130

to restore power to that RECS channel.

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00:03:13,130 --> 00:03:20,470

And that was done successfully with all relays closed at 12:03 p.m. central time on Saturday.

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00:03:20,470 --> 00:03:27,130

And this will enable electricity to reach the ATV-3, which automatically docked last Wednesday

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00:03:27,130 --> 00:03:30,660

to the Russian Zvezda service module.

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00:03:30,660 --> 00:03:36,350

This workaround was necessary as the station is entering a time frame as of today

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00:03:36,350 --> 00:03:41,580

in which the angle of the sun relative to the station would've been insufficient

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00:03:41,580 --> 00:03:44,950

to power the spacecraft from its solar arrays alone.

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00:03:44,950 --> 00:03:51,360

And then following all of these activities, a planned reboost occurred on Saturday on schedule

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00:03:51,360 --> 00:03:55,780

at 4:54 p.m. central time which involved a 6-minute,

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00:03:55,780 --> 00:04:01,280

51-second firing of the ATV's primary thrusters raising the station's orbit

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00:04:01,280 --> 00:04:03,440

by about two statute miles.

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00:04:03,440 --> 00:04:07,880

So again, the crew will be enjoying an off-duty day today

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00:04:07,880 --> 00:04:10,760

and finishing up some other sleep shifting.