1
00:00:01,730 --> 00:00:02,590
Good morning.

2
00:00:02,590 --> 00:00:04,010
This is mission control Houston.

3
00:00:04,010 --> 00:00:08,080
Thank you for joining us for today's
ISS update this Monday, February 6.

4
00:00:08,080 --> 00:00:13,370
You are now looking live view inside the
International Space Station Flight Control Room

5
00:00:13,370 --> 00:00:16,200
where the team here has been monitoring
the systems aboard the station

6
00:00:16,200 --> 00:00:19,970
and supporting the day's activities
of the Expedition 30 crew members.

7
00:00:19,970 --> 00:00:27,180
Leading the team here in the station flight
control room today is Flight Director Emily

8
00:00:27,180 --> 00:00:32,960
Nelson, seen here on the right-hand side
of your screen in a striped sweater,

9
00:00:32,960 --> 00:00:36,290
with Robert Hanley there next
to her serving as capcom,

10
00:00:36,290 --> 00:00:41,080
who is relaying all ground
messages up to the crew.

11
00:00:41,080 --> 00:00:45,330

The six crew members currently aboard the
station include NASA astronaut and commander

12
00:00:45,330 --> 00:00:51,130
of the complex Dan Burbank and his crewmates
and flight engineers cosmonauts Anton Shkaplerov

13
00:00:51,130 --> 00:00:57,840
and Anatoly Ivanishin, NASA astronaut
Don Pettit, cosmonaut Oleg Kononenko

14
00:00:57,840 --> 00:01:01,610
and European Space Agency
astronaut Andre Kuipers.

15
00:01:02,860 --> 00:01:05,750
Commander Burbank, Shkaplerov
and Ivanishin launched

16
00:01:05,750 --> 00:01:08,440
to the orbiting complex aboard
their Soyuz spacecraft

17
00:01:08,440 --> 00:01:11,980
as the Expedition 29 crew last November.

18
00:01:11,980 --> 00:01:15,490
They had docked to the Poisk module
of the space station a few days

19
00:01:15,490 --> 00:01:18,030
after their launch on November 16.

20
00:01:18,030 --> 00:01:22,840
Burbank then assumed command of the station
only one week after the trio had arrived.

21
00:01:22,840 --> 00:01:26,670
Today he and his crew members
complete their 86th consecutive day

22
00:01:26,670 --> 00:01:30,820
and began the 13th week in space.

23
00:01:30,820 --> 00:01:37,390
Meanwhile Pettit, Kononenko and Kuipers
launched aboard their Soyuz TMA-03M

24
00:01:37,390 --> 00:01:41,350
from the Baikonur Cosmodrome
in Kazakhstan on December 21.

25
00:01:41,350 --> 00:01:46,540
They begin their two-day chase on-orbit to
catch up to the International Space Station.

26
00:01:46,540 --> 00:01:51,210
With their Soyuz docked to the Rasvett module,
they will complete their 48th consecutive day

27
00:01:51,210 --> 00:01:54,570
and begin their seventh week in space today.

28
00:01:54,570 --> 00:02:00,920
The space station with its
crew aboard is now flying

29
00:02:00,920 --> 00:02:05,420
at an altitude of about 250 statute miles.

30
00:02:05,420 --> 00:02:11,990
The orbiting facility is making a southeastern
track across the south Pacific Ocean,

31
00:02:11,990 --> 00:02:16,730
off the southwest coast of Brazil, where it will
eventually cross the southwest tip of Brazil,

32
00:02:16,730 --> 00:02:19,360

and begin making in northeastern track

33
00:02:19,360 --> 00:02:24,360
across the south Atlantic Ocean
and eventually across Africa.

34
00:02:25,440 --> 00:02:30,950
After an off-duty weekend, the Expedition 30
crew members began their morning with the first

35
00:02:30,950 --> 00:02:35,510
of two daily planning conferences a couple
hours after their wakeup at midnight.

36
00:02:35,510 --> 00:02:39,230
Planning conferences are held with ground
controllers at mission control centers

37
00:02:39,230 --> 00:02:44,040
around the world to review the day's
activities and plan for the next set of tasks.

38
00:02:44,040 --> 00:02:49,750
The Expedition 30 crew continues to
tend to a variety of science experiments

39
00:02:49,750 --> 00:02:54,640
that take advantage of their microgravity
environment, perform regular maintenance

40
00:02:54,640 --> 00:03:00,090
to their orbital home and prepare for an
upcoming spacewalk outside the complex.

41
00:03:03,510 --> 00:03:09,180
During today's ISS update hour, Commander Dan
Burbank is performing some maintenance work

42
00:03:09,180 --> 00:03:11,600
to the onboard Water Recovery System,

43
00:03:11,600 --> 00:03:17,350
specifically he is removing a Filter Tank
Assembly for the Advanced Recycle System

44
00:03:17,350 --> 00:03:20,210
so it can be restored to its
regular configuration to work

45
00:03:20,210 --> 00:03:22,390
with the Urine Processing Assembly.

46
00:03:22,390 --> 00:03:26,020
Flight engineers and Russian
cosmonauts Kononenko

47
00:03:26,020 --> 00:03:29,920
and Shkaplerov are reviewing
spacewalk timeline procedures,

48
00:03:29,920 --> 00:03:35,580
just ten days out from the planned six-hour
excursion outside the complex to relocate one

49
00:03:35,580 --> 00:03:41,220
of two Strela cargo cranes from the Pirs
docking compartment to the Poisk module,

50
00:03:41,220 --> 00:03:47,470
and also to install five debris shields
on the hull of the Zvezda service module.

51
00:03:47,470 --> 00:03:53,430
Meanwhile, Flight Engineer Pettit has been
working to reset a video overlay display

52
00:03:53,430 --> 00:04:01,550
for the SPICE, or Smoke Point In Co-flow
Experiment, that studies a soot-emitting flame,

53
00:04:01,550 --> 00:04:06,820
which is important in understanding
the ability of fires to spread.

54
00:04:06,820 --> 00:04:11,610
During the hour he will conduct an inspection
and cleaning of the filter heat sink

55
00:04:11,610 --> 00:04:17,410
and a screen cover for the SLICE, or Structure
and Liftoff and Combustion Experiment.

56
00:04:17,410 --> 00:04:23,020
SLICE is part of the Smoke Point In Co-flow
Experiment that could lead to improvements

57
00:04:23,020 --> 00:04:29,300
in technologies which aim to reduce pollution
emissions and improve burning efficiency.

58
00:04:30,600 --> 00:04:34,070
Meanwhile, Andre Kuipers will
spend today's update hour setting

59
00:04:34,070 --> 00:04:38,820
up portable pulmonary function system
in advance of the VO2Max testing,

60
00:04:38,820 --> 00:04:44,830
which observes the aerobic capacity of an
individual on a long-duration space mission.

61
00:04:48,310 --> 00:04:52,800
Earlier this morning aboard the International
Space Station, Commander Burbank spent most

62
00:04:52,800 --> 00:04:55,280
of his time on the Water
Recovery System maintenance

63
00:04:55,280 --> 00:04:57,900
to replace the Advanced Recycle Filter.

64
00:04:57,900 --> 00:05:03,700
Flight Engineer Andre Kuipers worked on
updating operations data file procedures ,

65
00:05:03,700 --> 00:05:08,270
hile Flight Engineer Don Pettit spent
much of his morning setting up and working

66
00:05:08,270 --> 00:05:12,290
with the video overlay of that SPICE
experiment that provides insight

67
00:05:12,290 --> 00:05:15,000
on heat release and spread rates of fires.

68
00:05:15,000 --> 00:05:21,400
Later today after the update hour,
Commander Burbank will participate

69
00:05:21,400 --> 00:05:25,900
in a regular private psychological
conference, he will perform his second hour

70
00:05:25,900 --> 00:05:30,250
of daily exercise the using
the onboard stationary bicycle

71
00:05:30,250 --> 00:05:34,230
and will update his dietary log
for an ongoing study known as SOLO,

72
00:05:34,230 --> 00:05:38,460
or Sodium Loading in Microgravity, that
investigates the mechanisms of fluid

73
00:05:38,460 --> 00:05:42,250

and salt retention in the
body during spaceflight.

74
00:05:43,340 --> 00:05:47,790
Also Flight Engineer Kuipers will
continue maintenance on the Pretreat Tank

75
00:05:47,790 --> 00:05:51,900
in the Waste Hygiene Compartment and
Pettit will perform his second hour

76
00:05:51,900 --> 00:05:55,580
of daily exercise using the
Advanced Resistive Exercise Device

77
00:05:55,580 --> 00:05:58,690
that simulates weightlifting here on Earth.

78
00:05:58,690 --> 00:06:03,100
The Expedition 30 crew will then participate
in a second daily planning conference

79
00:06:03,100 --> 00:06:06,910
with ground controllers around the world
before entering its pre-sleep period.