1
00:00:02,586 --> 00:00:05,416
This is a live view in
the flight control room

2
00:00:05,416 --> 00:00:06,566
at the Johnson space Center.

3
00:00:06,936 --> 00:00:09,336
You're seeing a view of
the Orbit Two Team which is

4
00:00:09,336 --> 00:00:10,796
in the early part their shift.

5
00:00:10,796 --> 00:00:12,846
They just came on duty
here about two hours ago.

6
00:00:13,316 --> 00:00:16,646
This team being led by Flight
Director Matt Abbott who is just

7
00:00:16,646 --> 00:00:18,686
in the view here
in the solid blue.

8
00:00:18,686 --> 00:00:21,436
He's leading this flight control
team and being supported closely

9
00:00:21,776 --> 00:00:24,996
by astronaut Ricky Arnold who
is sitting to Matt's right,

10
00:00:24,996 --> 00:00:26,186
or at the center of this view.

11
00:00:26,616 --> 00:00:28,726
He is an astronaut

representing the crew office

12
00:00:28,786 --> 00:00:31,836
and also being supported
by Kathy Bolt who is also

13
00:00:31,836 --> 00:00:34,106
in this view and she's
been highly involved

14
00:00:34,106 --> 00:00:36,006
in the activities today as well.

15
00:00:36,046 --> 00:00:38,746
Both of them again serving
as the Capcom and the voice

16
00:00:38,746 --> 00:00:40,666
of the flight control team
with the onboard crew.

17
00:00:41,176 --> 00:00:46,676
The crew woke up at
midnight central time

18
00:00:46,856 --> 00:00:49,286
which is the regular wake up
time for the onboard crew.

19
00:00:49,866 --> 00:00:52,546
They had some personal time
and hygiene before breakfast

20
00:00:53,086 --> 00:00:55,576
and then had their morning
inspection of the vehicle

21
00:00:55,886 --> 00:00:59,876
and some other start up tasks
including experiment samples.

22
00:01:00,406 --> 00:01:04,296
Once they had their
personal time

23
00:01:04,296 --> 00:01:05,706
and breakfast they
started their day

24
00:01:05,706 --> 00:01:08,126
with the daily planning
conference, a chance to tag

25
00:01:08,126 --> 00:01:10,606
up with their supporting control
centers before beginning the

26
00:01:10,606 --> 00:01:11,536
activities for the day.

27
00:01:11,536 --> 00:01:15,186
First up for Commander Kevin
Ford was the Reaction self-test

28
00:01:15,186 --> 00:01:16,816
which is a small self-test

29
00:01:16,816 --> 00:01:20,266
that helps onboard crew
members assess their and fatigue

30
00:01:20,266 --> 00:01:21,606
on performance levels on board.

31
00:01:21,996 --> 00:01:25,646
He also had some activities with
the video camera install as well

32
00:01:25,816 --> 00:01:29,026

as reconfigurations of storage
and equipment in the node

33
00:01:29,026 --> 00:01:32,516
as part of ongoing work with the
Internal Thermal Control System

34
00:01:32,516 --> 00:01:34,586
which he's been working
on throughout this week.

35
00:01:35,006 --> 00:01:37,816
Today's activity included
refilling of the cooling loops

36
00:01:37,816 --> 00:01:38,836
in the Columbus module.

37
00:01:41,016 --> 00:01:42,416
His fellow colleague

38
00:01:42,416 --> 00:01:45,726
and astronaut Chris
Hadfield also performed

39
00:01:45,726 --> 00:01:47,526
that Reaction self-test
and then worked

40
00:01:47,526 --> 00:01:50,956
on the lab window configurations
for the ISERV study,

41
00:01:51,406 --> 00:01:53,816
that is the Servir
Environmental Research

42
00:01:53,816 --> 00:01:55,266
and Visualization System.

43
00:01:55,656 --> 00:01:58,136
It's an automated system
designed to acquire images

44
00:01:58,136 --> 00:02:00,346
of the Earth's surface from the
International Space Station.

45
00:02:00,916 --> 00:02:03,776
And it's primarily a means to
gain experience and expertise

46
00:02:04,156 --> 00:02:05,886
in automated data acquisition

47
00:02:05,886 --> 00:02:08,176
from the space station
although it's expected

48
00:02:08,246 --> 00:02:10,876
to provide useful images for
use in disaster monitoring

49
00:02:10,876 --> 00:02:14,366
and assessment of
environmental factors as well.

50
00:02:15,276 --> 00:02:18,936
Hadfield also had time
for exercise and assisted

51
00:02:18,986 --> 00:02:21,896
with the thermal control
system water collection.

52
00:02:22,316 --> 00:02:25,776
He also performed power sensor
indicator tests and worked

53

00:02:25,776 --> 00:02:29,266
with Robonaut, the onboard
robot as seen in this view.

54
00:02:31,986 --> 00:02:34,686
Meanwhile, their colleague
astronaut Tom Marshburn worked

55
00:02:34,686 --> 00:02:38,166
on water reclamation
condensate sampling as well

56
00:02:38,166 --> 00:02:41,896
as Water Processing Assembly
software upgrades and work

57
00:02:42,146 --> 00:02:45,226
on the configurations of the
Combustion Integration Rack.

58
00:02:46,496 --> 00:02:48,966
Meanwhile, their cosmonaut
colleagues likewise were working

59
00:02:48,966 --> 00:02:50,286
in the Russian side
of the segment

60
00:02:50,466 --> 00:02:53,676
where they conducted various
laptop updates, exercise

61
00:02:53,676 --> 00:02:56,326
and performed more sessions
of the Typology experiment

62
00:02:56,666 --> 00:02:58,706
which studies a crew
member's ability to perform

63

00:02:58,706 --> 00:03:00,026
and communicate under stress.

64
00:03:01,946 --> 00:03:05,516
With those tasks
complete the crew broke

65
00:03:05,516 --> 00:03:08,796
for a shared mid-day meal and
then started their afternoon

66
00:03:08,796 --> 00:03:10,756
with the space station
emergency drill.

67
00:03:11,146 --> 00:03:15,306
This is an activity that is done
regularly but not frequently

68
00:03:15,566 --> 00:03:17,876
and it was a full
integrated simulation

69
00:03:17,876 --> 00:03:21,316
of an emergency scenario aboard
the space station complex.

70
00:03:21,826 --> 00:03:24,256
This was done with the full
crew, as well as full support

71
00:03:24,256 --> 00:03:26,806
from the ground control team
in Houston and all locations

72
00:03:27,196 --> 00:03:28,946
with all the flight
controllers following along

73
00:03:28,946 --> 00:03:32,106

and simulating all calls and
actions just as they would

74
00:03:32,106 --> 00:03:33,996
in a real life emergency
situation.

75
00:03:34,486 --> 00:03:37,746
That drill lasted about an hour
and simulated an ammonia leak

76
00:03:37,836 --> 00:03:40,186
in the Destiny laboratory
thermal control system.

77
00:03:40,716 --> 00:03:42,006
Following the sim the crew

78
00:03:42,006 --> 00:03:44,386
and the flight control team
had an integrated conference

79
00:03:44,386 --> 00:03:46,616
and debrief to talk
through the exercise.

80
00:03:49,046 --> 00:03:51,006
They'll continue with
their afternoon activities.

81
00:03:51,006 --> 00:03:52,976
Again, Commander Kevin
Ford continuing work

82
00:03:52,976 --> 00:03:54,726
on the thermal control
system configs.

83
00:03:55,326 --> 00:03:59,796
They'll have exercise sessions,

also an EarQ hearing assessment

84
00:03:59,876 --> 00:04:02,516
which is an ongoing study for
long-duration crew members

85
00:04:03,516 --> 00:04:06,756
and continued work with the
Robonaut who's also shown

86
00:04:06,756 --> 00:04:09,136
in this view and
family conferences.

87
00:04:09,786 --> 00:04:10,906
They'll wrap up their day

88
00:04:10,906 --> 00:04:12,996
with the end-of-day
daily planning conference