



1
00:00:00,500 --> 00:00:10,980
[Music]

2
00:00:10,980 --> 00:00:12,230
>> This is Mission
Control, Houston.

3
00:00:12,230 --> 00:00:13,660
Welcome to Space Station Live.

4
00:00:13,660 --> 00:00:16,460
It is Thursday, August 29, 2013.

5
00:00:16,460 --> 00:00:19,220
This is a live view inside the
International Space Station

6
00:00:19,220 --> 00:00:20,740
Flight Control Room here

7
00:00:20,740 --> 00:00:23,280
at the Johnson Space
Center in Houston, Texas.

8
00:00:23,280 --> 00:00:26,230
This team today being led by
Fight Director Matt Abbott.

9
00:00:26,230 --> 00:00:29,080
He is sitting at the center of
the console directing the team.

10
00:00:29,080 --> 00:00:30,410
He's there in the blue shirt.

11
00:00:30,410 --> 00:00:31,490
Sitting beside him in sort

12

00:00:31,490 --> 00:00:34,170
of the lighter blue
shirt is Jeremy Hansen.

13
00:00:34,170 --> 00:00:37,890
He is the cap com for
today and this team.

14
00:00:37,890 --> 00:00:40,560
Aboard the space station
we've got Expedition 36.

15
00:00:40,560 --> 00:00:42,490
The Commander is
Pavel Vinogradov.

16
00:00:42,490 --> 00:00:44,460
He is there second
from the left.

17
00:00:44,460 --> 00:00:46,590
On the far left Aleksandr
Misurkin.

18
00:00:46,590 --> 00:00:48,020
There in the back
is Chris Cassidy.

19
00:00:48,020 --> 00:00:52,020
Beside him is Luca Parmitano,
from the European Space Agency.

20
00:00:52,020 --> 00:00:54,110
There in the front
Fyodor Yurchikhin

21
00:00:54,110 --> 00:00:57,750
and on the far right-hand side
is NASA astronaut Karen Nyberg.

22

00:00:57,750 --> 00:01:02,120
The crew is very busy today on board the space station itself.

23
00:01:02,120 --> 00:01:04,780
They're going to have a busy weekend as well.

24
00:01:04,780 --> 00:01:07,600
We have an update for you on this space suit investigation

25
00:01:07,600 --> 00:01:10,200
that is, has been continuing ever since July

26
00:01:10,200 --> 00:01:12,890
when Luca Parmitano and Chris Cassidy stepped outside

27
00:01:12,890 --> 00:01:16,420
and that water began leaking into Luca's helmet.

28
00:01:16,420 --> 00:01:19,390
There was a checkup that happened earlier this week

29
00:01:19,390 --> 00:01:21,220
where they basically recreated the problem

30
00:01:21,220 --> 00:01:23,940
so what they're going to do is actually ask the crew go ahead

31
00:01:23,940 --> 00:01:28,010
and swap out this water relief valve that is one

32

00:01:28,010 --> 00:01:29,970
of the suspects inside the suit

33

00:01:29,970 --> 00:01:32,120
that will take place
this weekend.

34

00:01:32,120 --> 00:01:35,430
What they will do after that is
test out the suit once again.

35

00:01:35,430 --> 00:01:37,640
What this amounts to is
basically turning on the suit

36

00:01:37,640 --> 00:01:39,520
as if it were about
to go out the door.

37

00:01:39,520 --> 00:01:41,740
Of course Luca will not
be on the inside of it

38

00:01:41,740 --> 00:01:45,220
but it does allow them to verify
whether the problem exists

39

00:01:45,220 --> 00:01:45,680
or not.

40

00:01:45,680 --> 00:01:47,870
So they will swap out
that water relief valve.

41

00:01:47,870 --> 00:01:49,090
Turn on the suit once again.

42

00:01:49,090 --> 00:01:49,610
Check it out.

43

00:01:49,610 --> 00:01:53,820

See if that resolves the issue
and then they will remove

44

00:01:53,820 --> 00:01:55,840

and replace what is
known as the gas trap.

45

00:01:55,840 --> 00:01:58,440

This is another piece of
equipment inside the suit.

46

00:01:58,440 --> 00:01:59,880

And then we'll see
where we're at.

47

00:01:59,880 --> 00:02:02,510

So again that should
take place on Saturday.

48

00:02:02,510 --> 00:02:05,200

All three of those tasks
will be done by to crew.

49

00:02:05,200 --> 00:02:07,500

Karen Nyberg is already
gathering the tool

50

00:02:07,500 --> 00:02:08,910

for that today.

51

00:02:08,910 --> 00:02:11,340

Of course we will have an
update for you on Monday

52

00:02:11,340 --> 00:02:16,600

as this activity continues, to
see if we can solve this issue

53

00:02:16,600 --> 00:02:18,600
with this specific space suit

54

00:02:18,600 --> 00:02:21,880
that Luca Parmitano
did wear back in July.

55

00:02:23,760 --> 00:02:26,150
Chris Cassidy today also
working with Robonaut.

56

00:02:26,150 --> 00:02:30,050
He has been doing some
tele-operations with it.

57

00:02:30,050 --> 00:02:32,560
Basically he puts on some
virtual reality gear,

58

00:02:32,560 --> 00:02:37,310
some VR gear and commands
Robonaut through some paces,

59

00:02:37,310 --> 00:02:39,160
basically controlling
the robot himself.

60

00:02:39,160 --> 00:02:41,010
Robonaut can be controlled by
the ground controllers here

61

00:02:41,010 --> 00:02:43,410
in Houston or the
crew itself can do it

62

00:02:43,410 --> 00:02:46,630
so Cassidy was checking
that out today

63

00:02:46,630 --> 00:02:49,790

and everything went according to plan.

64

00:02:49,790 --> 00:02:52,690

Chris also working to gather up some item and some trash

65

00:02:52,690 --> 00:02:54,780

that are going to come home and be burned

66

00:02:54,780 --> 00:02:57,780

up in the atmosphere once Cygnus leaves the International

67

00:02:57,780 --> 00:02:58,490

Space Station.

68

00:02:58,490 --> 00:03:01,050

Of course Orbital scientists are getting ready

69

00:03:01,050 --> 00:03:04,580

to launch Cygnus their cargo vehicle on a test flight coming

70

00:03:04,580 --> 00:03:05,930

up on September the 17th.

71

00:03:05,930 --> 00:03:08,010

That is the targeted launch date.

72

00:03:08,010 --> 00:03:10,850

Launch time should be about 10:16 a.m. Central Time

73

00:03:10,850 --> 00:03:12,550

or 11:16 a.m. Eastern Time.

74

00:03:12,550 --> 00:03:16,180

If Orbital is able
to launch Cygnus

75

00:03:16,180 --> 00:03:20,230

on that date it should lead to a
rendezvous on September the 22nd

76

00:03:20,230 --> 00:03:23,220

with the International
Space Station when Luca

77

00:03:23,220 --> 00:03:25,950

and Karen will use the station's
robotic arm to reach out

78

00:03:25,950 --> 00:03:28,010

and grab on to Cygnus
and install it

79

00:03:28,010 --> 00:03:30,070

on the bottom side
of the Harmony Node.

80

00:03:30,070 --> 00:03:33,290

They will unpack about
13 hundred pounds

81

00:03:33,290 --> 00:03:34,500

of cargo that's coming up there.

82

00:03:34,500 --> 00:03:36,340

It's basically some
noncritical crew supplies

83

00:03:36,340 --> 00:03:39,800

on board the spacecraft that are
coming up on this test flight

84

00:03:39,800 --> 00:03:42,120
but they will be packing it
full of trash and other items

85

00:03:42,120 --> 00:03:44,680
that are no longer needed and
at the end of about a month

86

00:03:44,680 --> 00:03:48,040
on board the space station
Cygnus will be undocked

87

00:03:48,040 --> 00:03:49,890
and be sent into a
destructive re-entry

88

00:03:49,890 --> 00:03:54,910
so Chris is working today to
gather up some of those items.

89

00:03:54,910 --> 00:03:57,620
Later on today Chris and
Karen will do an eye exam.

90

00:03:57,620 --> 00:04:00,430
What this is is taking a look
at this phenomena that some

91

00:04:00,430 --> 00:04:02,590
of the astronauts
have seen on board

92

00:04:02,590 --> 00:04:04,470
where their vision
gets a bit degraded.

93

00:04:04,470 --> 00:04:07,060
Their eyes do change a bit
while they're up there.

94

00:04:07,060 --> 00:04:08,570

So this new vision
test is something

95

00:04:08,570 --> 00:04:10,320

that the crew members do
while they're up there to see

96

00:04:10,320 --> 00:04:14,170

if they can figure out exactly
what could be causing this

97

00:04:14,170 --> 00:04:16,790

recent history that they've
seen with some of the astronauts

98

00:04:16,790 --> 00:04:22,290

and to determine what can
possibly be causing it.

99

00:04:22,290 --> 00:04:25,580

Karen Nyberg and her fellow
crew members Luca Parmitano

100

00:04:25,580 --> 00:04:28,240

and Fyodor Yurchikhin have been
doing an emergency drill today.

101

00:04:28,240 --> 00:04:31,460

This is done every now and then
just to keep their skills sharp.

102

00:04:31,460 --> 00:04:33,680

They did climb into
Soyuz that brought them

103

00:04:33,680 --> 00:04:38,810

up to the station here
several weeks ago and pretended

104

00:04:38,810 --> 00:04:40,200

like there was an
emergency on board,

105

00:04:40,200 --> 00:04:42,210

ran through all the procedures
for them and then talked

106

00:04:42,210 --> 00:04:46,390

to the ground teams here on
earth about how that went.

107

00:04:47,460 --> 00:04:50,950

Alexander Misurkin and Fyodor
Yurchikhin have been continuing

108

00:04:50,950 --> 00:04:52,230

today to put up the tools

109

00:04:52,230 --> 00:04:53,880

that they used during
their two space walks

110

00:04:53,880 --> 00:04:56,500

that happened last week
and the week before

111

00:04:56,500 --> 00:04:58,090

and there's quite a bit of
equipment that they needed

112

00:04:58,090 --> 00:05:00,260

for those space walks
as they stepped outside

113

00:05:00,260 --> 00:05:03,040

and completed all their
different tasks including

114

00:05:03,040 --> 00:05:05,370

installing a rotating
platform that will be used

115

00:05:05,370 --> 00:05:08,460
for an upcoming telescope and
also preparing the station

116

00:05:08,460 --> 00:05:12,320
for the arrival of the upcoming
MLM module that will come

117

00:05:12,320 --> 00:05:15,160
up to the station here
several months from now.

118

00:05:15,160 --> 00:05:17,390
So they're just gathering up
the items that they had during

119

00:05:17,390 --> 00:05:19,070
that spacewalk and all
the different tools

120

00:05:19,070 --> 00:05:21,270
and putting them back
into the tool boxes

121

00:05:21,270 --> 00:05:23,940
on board to space station.

122

00:05:23,940 --> 00:05:27,420
Also, Vinogradov and Cassidy and
Misurkin getting ready to wrap

123

00:05:27,420 --> 00:05:29,690
up their time on board the
International Space Station.

124

00:05:29,690 --> 00:05:31,320
This crew is due to come home

125

00:05:31,320 --> 00:05:33,810

to earth the evening
of September 10th.

126

00:05:33,810 --> 00:05:38,500

They each have some packing up
time that will take place today.

127

00:05:38,500 --> 00:05:39,450

We want to remind you

128

00:05:39,450 --> 00:05:42,450

that landing coverage will air
live here on NASA television.

129

00:05:42,450 --> 00:05:44,350

Undocking should
occur from the station

130

00:05:44,350 --> 00:05:49,350

at about 6:37 p.m. Central
Time or 7:37 p.m. Eastern Time

131

00:05:49,350 --> 00:05:52,900

and then landing will occur
9:58 p.m. Central Time

132

00:05:52,900 --> 00:05:54,970

or 10:58 p.m. Eastern Time.

133

00:05:54,970 --> 00:05:58,600

Of course, our live coverage
will be here on NASA television