



1  
00:00:09,750 --> 00:00:07,829  
good morning from mission control

2  
00:00:10,629 --> 00:00:09,760  
houston and welcome to space station

3  
00:00:12,789 --> 00:00:10,639  
live

4  
00:00:14,310 --> 00:00:12,799  
right now all eyes on the external

5  
00:00:15,749 --> 00:00:14,320  
portions of the international space

6  
00:00:17,830 --> 00:00:15,759  
station following thursday's

7  
00:00:18,710 --> 00:00:17,840  
identification of an ammonia coolant

8  
00:00:20,950 --> 00:00:18,720  
leak

9  
00:00:22,950 --> 00:00:20,960  
and uh we were seeing wheels i was back

10  
00:00:24,390 --> 00:00:22,960  
in the docking compartment looking it

11  
00:00:25,910 --> 00:00:24,400  
sounds like i'm just talking to dom and

12  
00:00:30,710 --> 00:00:25,920  
chrysler something backed up completely

13  
00:00:31,830 --> 00:00:30,720

but they saw a very steady stream of

14

00:00:33,590 --> 00:00:31,840

flakes

15

00:00:35,270 --> 00:00:33,600

or bits coming out of

16

00:00:36,790 --> 00:00:35,280

common pure nature and then rotating

17

00:00:38,069 --> 00:00:36,800

towards the forward

18

00:00:39,910 --> 00:00:38,079

you know as the

19

00:00:42,069 --> 00:00:39,920

as the truss is rotating they were

20

00:00:43,830 --> 00:00:42,079

coming out cleanly and repeatably enough

21

00:00:47,830 --> 00:00:43,840

that it looked like it was a point

22

00:00:52,790 --> 00:00:50,069

the final verdict being in the area that

23

00:00:56,229 --> 00:00:52,800

it's in brought it to being either the

24

00:00:57,750 --> 00:00:56,239

pfcs or the pump flow control system

25

00:00:59,590 --> 00:00:57,760

located out on the

26  
00:01:00,549 --> 00:00:59,600  
external portion of the station's p6

27  
00:01:02,950 --> 00:01:00,559  
truss

28  
00:01:04,710 --> 00:01:02,960  
that pfcs contains

29  
00:01:06,149 --> 00:01:04,720  
many of the control mechanisms to drive

30  
00:01:08,070 --> 00:01:06,159  
the coolant flow

31  
00:01:10,310 --> 00:01:08,080  
along that truss section of the

32  
00:01:13,350 --> 00:01:10,320  
international space station

33  
00:01:16,390 --> 00:01:13,360  
that one of the suspected coolant leaks

34  
00:01:18,789 --> 00:01:16,400  
uh right now inside the nbl is uh two of

35  
00:01:20,469 --> 00:01:18,799  
our future expedition crew members uh

36  
00:01:23,109 --> 00:01:20,479  
nasa astronaut terry virts and east

37  
00:01:26,550 --> 00:01:23,119  
astronaut samantha cristo ferretti are

38  
00:01:28,230 --> 00:01:26,560

doing a spacewalk run to demonstrate

39

00:01:29,830 --> 00:01:28,240

many of the techniques that could be

40

00:01:32,149 --> 00:01:29,840

potentially used

41

00:01:34,310 --> 00:01:32,159

if this spacewalk tomorrow gets approved

42

00:01:36,630 --> 00:01:34,320

for two of our astronauts

43

00:01:38,950 --> 00:01:36,640

again they'll be looking to replace that

44

00:01:41,749 --> 00:01:38,960

pump and flow control system

45

00:01:42,950 --> 00:01:41,759

or should that not be the source of the

46

00:01:44,149 --> 00:01:42,960

leak look to

47

00:01:46,310 --> 00:01:44,159

investigate some of the internal

48

00:01:48,870 --> 00:01:46,320

plumbing of the truss structure to see

49

00:01:51,190 --> 00:01:48,880

if they can identify exactly where it is

50

00:01:52,870 --> 00:01:51,200

right now on board two expedition 35

51  
00:01:55,350 --> 00:01:52,880  
crew members chris cassidy and tom

52  
00:01:57,910 --> 00:01:55,360  
marshburn are working to prepare for

53  
00:02:00,469 --> 00:01:57,920  
that possible eva

54  
00:02:02,389 --> 00:02:00,479  
mission managers here in houston and

55  
00:02:03,510 --> 00:02:02,399  
around the globe met earlier this

56  
00:02:06,789 --> 00:02:03,520  
morning to

57  
00:02:09,430 --> 00:02:06,799  
go over all the data collected thus far

58  
00:02:11,190 --> 00:02:09,440  
they will be doing a final decision on

59  
00:02:13,589 --> 00:02:11,200  
whether or not the spacewalk is taking

60  
00:02:15,510 --> 00:02:13,599  
place later this evening but for now

61  
00:02:17,110 --> 00:02:15,520  
giving the crew the go-ahead to begin

62  
00:02:18,710 --> 00:02:17,120  
their prep work

63  
00:02:20,869 --> 00:02:18,720

working inside of the

64

00:02:23,510 --> 00:02:20,879

quest airlock to prepare their emu or

65

00:02:24,710 --> 00:02:23,520

their extravehicular mobility units

66

00:02:26,550 --> 00:02:24,720

they'll be doing that throughout their

67

00:02:28,150 --> 00:02:26,560

day today

68

00:02:30,470 --> 00:02:28,160

the ammonia leak

69

00:02:32,949 --> 00:02:30,480

found on board

70

00:02:35,110 --> 00:02:32,959

yesterday ammonia used to cool all the

71

00:02:37,750 --> 00:02:35,120

station's power channels this one in

72

00:02:40,550 --> 00:02:37,760

particular the 2b channel

73

00:02:42,309 --> 00:02:40,560

it's given its location chris cassidy

74

00:02:44,790 --> 00:02:42,319

and tom marshburn already

75

00:02:47,190 --> 00:02:44,800

veteran spacewalkers having three

76

00:02:49,910 --> 00:02:47,200

spacewalks a piece on a previous

77

00:02:52,229 --> 00:02:49,920

spaceflight sts-127 the two of them even

78

00:02:53,990 --> 00:02:52,239

working tandem for two of those

79

00:02:55,110 --> 00:02:54,000

very familiar with the areas they were

80

00:02:56,869 --> 00:02:55,120

out there

81

00:02:58,630 --> 00:02:56,879

back during that shuttle flight

82

00:02:59,830 --> 00:02:58,640

replacing a number of batteries for the

83

00:03:03,190 --> 00:02:59,840

station

84

00:03:05,430 --> 00:03:03,200

so chosen for this spacewalk they will

85

00:03:07,750 --> 00:03:05,440

continue to prepare their suits should

86

00:03:09,670 --> 00:03:07,760

they get the final go-ahead to conduct

87

00:03:11,670 --> 00:03:09,680

this spacewalk tomorrow

88

00:03:13,830 --> 00:03:11,680

however the the station continues to

89

00:03:15,430 --> 00:03:13,840

operate normally otherwise

90

00:03:17,750 --> 00:03:15,440

as this

91

00:03:20,149 --> 00:03:17,760

ammonia continues to slowly deplete from

92

00:03:22,309 --> 00:03:20,159

the the power channel identified as the

93

00:03:24,949 --> 00:03:22,319

2b power channel

94

00:03:26,949 --> 00:03:24,959

the thermal systems and the cooling

95

00:03:28,789 --> 00:03:26,959

thermal system controllers here in

96

00:03:31,589 --> 00:03:28,799

mission control houston are

97

00:03:33,509 --> 00:03:31,599

gradually or seamlessly

98

00:03:34,390 --> 00:03:33,519

transferring all the systems on that 2b

99

00:03:36,470 --> 00:03:34,400

power

100

00:03:38,789 --> 00:03:36,480

loop over to the 2a

101

00:03:41,270 --> 00:03:38,799

making sure that there are no impacts to

102

00:03:42,070 --> 00:03:41,280

station systems again the crew