1
00:00:07,110 --> 00:00:05,269
welcome to the international space

2
00:00:08,549 --> 00:00:07,120
station flight control room of course

3
00:00:10,549 --> 00:00:08,559
the big news for the day is the move of

4
00:00:13,350 --> 00:00:10,559
uh the space walk that was scheduled for

5
00:00:15,270 --> 00:00:13,360
6 10 a.m this morning to 6 10 a.m

6
00:00:16,790 --> 00:00:15,280
tomorrow morning and tell us a little

7
00:00:18,310 --> 00:00:16,800
bit about what was behind that move we

8
00:00:20,150 --> 00:00:18,320
have here with us the integration and

9
00:00:21,830 --> 00:00:20,160
operations manager for the space station

10
00:00:23,029 --> 00:00:21,840
kenny todd thanks for joining us kenny

11
00:00:24,310 --> 00:00:23,039
it's my pleasure

12
00:00:26,550 --> 00:00:24,320
all right so i guess the decision was

13
00:00:28,470 --> 00:00:26,560

made yesterday by the mission management

14
00:00:29,830 --> 00:00:28,480
team so can you tell us what uh what

15
00:00:31,669 --> 00:00:29,840
they were looking at and why they

16
00:00:33,430 --> 00:00:31,679
decided to move the space walk

17
00:00:34,790 --> 00:00:33,440
sure um we

18
00:00:35,910 --> 00:00:34,800
we had a lot of good discussion

19
00:00:37,670 --> 00:00:35,920
yesterday

20
00:00:39,270 --> 00:00:37,680
obviously the first order of business is

21
00:00:41,110 --> 00:00:39,280
the condition of the suits

22
00:00:44,389 --> 00:00:41,120
how good do we feel about them being

23
00:00:48,709 --> 00:00:46,229
at the end of the day when you look the

24
00:00:50,150 --> 00:00:48,719
suits we judge to be in in good shape

25
00:00:51,750 --> 00:00:50,160
based on the ground testing that we've

26
00:00:53,029 --> 00:00:51,760
done of the failed units that returned

27
00:00:55,029 --> 00:00:53,039
as well as the

28
00:00:56,470 --> 00:00:55,039
as the suits themselves on orbit and how

29
00:00:57,990 --> 00:00:56,480
they performed

30
00:00:59,670 --> 00:00:58,000
one of the things that we did do was put

31
00:01:03,750 --> 00:00:59,680
in a list of what we would term the

32
00:01:04,710 --> 00:01:03,760
watch criteria it's basically a uh a

33
00:01:06,550 --> 00:01:04,720
list of things that we're going to

34
00:01:08,070 --> 00:01:06,560
monitor during the spacewalk that things

35
00:01:10,310 --> 00:01:08,080
are a little bit outside the normal of

36
00:01:12,550 --> 00:01:10,320
what we would monitor and uh and that's

37
00:01:13,270 --> 00:01:12,560
going to take a little bit of extra time

38
00:01:17,350 --> 00:01:13,280

to

39
00:01:19,990 --> 00:01:17,360
um

40
00:01:23,030 --> 00:01:20,000
if we were in a a contingency type of

41
00:01:24,710 --> 00:01:23,040
eba where where the clock was running

42
00:01:28,630 --> 00:01:24,720
i felt very confident we could have gone

43
00:01:30,310 --> 00:01:28,640
out today um but uh uh you know over the

44
00:01:31,590 --> 00:01:30,320
in football terms over the last couple

45
00:01:32,950 --> 00:01:31,600
of weeks we've kind of gone the length

46
00:01:34,230 --> 00:01:32,960
of the field here when we're and we're

47
00:01:37,270 --> 00:01:34,240
right here at the goal line getting

48
00:01:39,350 --> 00:01:37,280
ready to go do the cva and and uh

49
00:01:41,109 --> 00:01:39,360
we had enough time it was okay we could

50
00:01:42,630 --> 00:01:41,119
call the timeout make sure everybody had

51
00:01:44,710 --> 00:01:42,640
to play and and

52
00:01:47,030 --> 00:01:44,720
that's what we decided to do had we had

53
00:01:48,550 --> 00:01:47,040
we not had the time um we could have

54
00:01:50,469 --> 00:01:48,560
done it but uh but i think the better

55
00:01:52,230 --> 00:01:50,479
part of valor is probably to

56
00:01:54,950 --> 00:01:52,240
to take that time out let the team get

57
00:01:56,630 --> 00:01:54,960
ready uh and and and and ready to run to

58
00:01:59,190 --> 00:01:56,640
play so we should be good and ready to

59
00:02:00,950 --> 00:01:59,200
go tomorrow at 6 10. absolutely um but i

60
00:02:02,469 --> 00:02:00,960
know this is the first of three space

61
00:02:05,670 --> 00:02:02,479
walks and how does this affect the

62
00:02:07,830 --> 00:02:05,680
future dates of the of the remaining two

63
00:02:09,190 --> 00:02:07,840

what we're going to do is we we slid 24

64
00:02:11,270 --> 00:02:09,200
hours of the first spacewalk we're going

65
00:02:13,990 --> 00:02:11,280
to slide the second spacewalk 24 hours

66
00:02:15,190 --> 00:02:14,000
as well from the 24th to the 25th

67
00:02:17,030 --> 00:02:15,200
at this point we're going to try to hold

68
00:02:19,110 --> 00:02:17,040
the third one on the first that's been

69
00:02:20,070 --> 00:02:19,120
the plan all along and and

70
00:02:21,750 --> 00:02:20,080
and we'll

71
00:02:23,110 --> 00:02:21,760
we'll adjust as we need to but what our

72
00:02:25,510 --> 00:02:23,120
plan right now is try to stick to the

73
00:02:27,350 --> 00:02:25,520
first okay and i know um barry wilmore

74
00:02:28,949 --> 00:02:27,360
is coming up on the end of his um so

75
00:02:31,270 --> 00:02:28,959
hopefully we can get those in as

76
00:02:33,350 --> 00:02:31,280
scheduled before he leaves you bet uh

77
00:02:34,630 --> 00:02:33,360
he's uh uh certainly the guy that's

78
00:02:37,110 --> 00:02:34,640
trained he and terry have trained these

79
00:02:38,630 --> 00:02:37,120
evas so i think

80
00:02:40,070 --> 00:02:38,640
i think everyone would like to see us go

81
00:02:41,990 --> 00:02:40,080
ahead and get that get that done while

82
00:02:43,110 --> 00:02:42,000
he's still on board

83
00:02:44,390 --> 00:02:43,120
at the end of the day we're going to do

84
00:02:46,229 --> 00:02:44,400
the right thing for

85
00:02:48,949 --> 00:02:46,239
from a safety standpoint but as long as

86
00:02:50,790 --> 00:02:48,959
the suits continue to treat us well and

87
00:02:52,390 --> 00:02:50,800
and we're uh we're moving forward in the

88
00:02:53,910 --> 00:02:52,400

objectives of the ebas then we're we're

89
00:02:55,830 --> 00:02:53,920
going to try to stay of course get them

90
00:02:57,190 --> 00:02:55,840
done before he leaves sure

91
00:02:58,390 --> 00:02:57,200
well um you mentioned that one of the

92
00:03:00,390 --> 00:02:58,400
things that the team here on the ground

93
00:03:02,710 --> 00:03:00,400
was looking at were the protocols they

94
00:03:04,630 --> 00:03:02,720
they'd use for the suits if anything did

95
00:03:05,670 --> 00:03:04,640
happen i know we wouldn't expect

96
00:03:07,509 --> 00:03:05,680
anything to happen but we're always

97
00:03:09,030 --> 00:03:07,519
ready for the what ifs so what what

98
00:03:10,949 --> 00:03:09,040
would we do if there's a problem with

99
00:03:11,990 --> 00:03:10,959
the with a fan on the on the spacesuits

100
00:03:14,869 --> 00:03:12,000
tomorrow

101
00:03:16,790 --> 00:03:14,879
um the failure of a fan pumps up is has

102
00:03:19,110 --> 00:03:16,800
i mean that's an acknowledged failure uh

103
00:03:21,270 --> 00:03:19,120
it there is the potential and for other

104
00:03:23,670 --> 00:03:21,280
reasons that it could fail and so our

105
00:03:26,149 --> 00:03:23,680
procedures as written currently uh

106
00:03:28,470 --> 00:03:26,159
accommodate uh you know the actions you

107
00:03:29,750 --> 00:03:28,480
would take if the fan pumps up fails

108
00:03:32,630 --> 00:03:29,760
what we're doing a little bit different

109
00:03:34,550 --> 00:03:32,640
now is um is we're being a little more

110
00:03:36,309 --> 00:03:34,560
conservative if we do have a fan pump

111
00:03:38,070 --> 00:03:36,319
set up failure uh we're not going to

112
00:03:40,710 --> 00:03:38,080
spend a lot of time trying to restart

113
00:03:42,710 --> 00:03:40,720

the fan and and continue the eva uh

114
00:03:45,830 --> 00:03:42,720
which is what we would do nominally okay

115
00:03:46,949 --> 00:03:45,840
um in this in in the situation where we

116
00:03:48,630 --> 00:03:46,959
where we know we probably got a little

117
00:03:50,630 --> 00:03:48,640
bit of corrosion in those bearings and

118
00:03:52,229 --> 00:03:50,640
if for some reason we've we've missed

119
00:03:54,070 --> 00:03:52,239
something in our analysis it says the

120
00:03:56,390 --> 00:03:54,080
fan is going to continue to run

121
00:03:57,270 --> 00:03:56,400
and for some reason it does stop our

122
00:03:58,869 --> 00:03:57,280
first thought is we're going to

123
00:04:00,070 --> 00:03:58,879
terminate the eva at that point and go

124
00:04:02,309 --> 00:04:00,080
ahead and start bringing the crew back

125
00:04:04,070 --> 00:04:02,319
in so we'll we'll do an orderly cleanup

126
00:04:05,429 --> 00:04:04,080
and we'll then we'll bring the crew back

127
00:04:07,509 --> 00:04:05,439
in okay

128
00:04:09,910 --> 00:04:07,519
well uh getting on i guess to the more

129
00:04:11,350 --> 00:04:09,920
uh exciting news um it's been a while

130
00:04:12,390 --> 00:04:11,360
since we've done any assembly work on

131
00:04:14,149 --> 00:04:12,400
the space station it's all been

132
00:04:15,670 --> 00:04:14,159
maintenance for a while now so how does

133
00:04:16,789 --> 00:04:15,680
it how does it feel to be getting back

134
00:04:19,509 --> 00:04:16,799
to that

135
00:04:22,469 --> 00:04:19,519
well uh yeah i i keep coining it kind of

136
00:04:25,270 --> 00:04:22,479
the reassembly uh it's uh it's exciting

137
00:04:27,110 --> 00:04:25,280
um uh you know the the challenge is

138
00:04:28,629 --> 00:04:27,120

going to be continuing to to make

139
00:04:30,710 --> 00:04:28,639
forward progress on our science and our

140
00:04:32,150 --> 00:04:30,720
research program at the same time i

141
00:04:34,710 --> 00:04:32,160
think we've got a good balanced way to

142
00:04:36,310 --> 00:04:34,720
do that but it's uh it's it's going to

143
00:04:38,390 --> 00:04:36,320
be different to see big modules moving

144
00:04:39,830 --> 00:04:38,400
around again on space station and

145
00:04:41,350 --> 00:04:39,840
and when you look at a longer term of

146
00:04:43,189 --> 00:04:41,360
what this is going to do for us in terms

147
00:04:44,550 --> 00:04:43,199
of being able to uh

148
00:04:46,550 --> 00:04:44,560
to meet our

149
00:04:48,469 --> 00:04:46,560
our goals for commercial crews and

150
00:04:50,390 --> 00:04:48,479
commercial cargo vehicles going forward

151
00:04:52,710 --> 00:04:50,400
it's a it's going to be it's going to be

152
00:04:54,870 --> 00:04:52,720
exciting and again that's just another

153
00:04:56,629 --> 00:04:54,880
step on that path to commercializing low

154
00:04:58,790 --> 00:04:56,639
earth orbit and we're excited to be a

155
00:05:00,150 --> 00:04:58,800
part of it yeah and that is i guess the

156
00:05:01,670 --> 00:05:00,160
exciting um

157
00:05:03,749 --> 00:05:01,680
ultimate outcome that we're looking at

158
00:05:05,590 --> 00:05:03,759
is the arrival of those first commercial

159
00:05:07,590 --> 00:05:05,600
crew vehicles carrying astronauts up to

160
00:05:09,510 --> 00:05:07,600
the space station so i'm sure the whole

161
00:05:10,469 --> 00:05:09,520
program is looking forward to that

162
00:05:12,310 --> 00:05:10,479
absolutely

163
00:05:14,150 --> 00:05:12,320

you know it's uh when you get in a

164
00:05:16,629 --> 00:05:14,160
program like this that's multiple

165
00:05:18,230 --> 00:05:16,639
decades you know you uh

166
00:05:20,550 --> 00:05:18,240
you have to know that over time things

167
00:05:23,110 --> 00:05:20,560
are going to adjust and and

168
00:05:26,629 --> 00:05:23,120
and uh you know this this emergence of

169
00:05:29,670 --> 00:05:26,639
the commercial crew industry um is

170
00:05:31,749 --> 00:05:29,680
exciting and uh and again i think that

171
00:05:33,670 --> 00:05:31,759
you know if we can uh if we can satisfy

172
00:05:34,469 --> 00:05:33,680
those goals and objectives for them uh

173
00:05:35,510 --> 00:05:34,479
you know that will give us an

174
00:05:36,950 --> 00:05:35,520
opportunity to start looking a little

175
00:05:38,390 --> 00:05:36,960
further into the

176
00:05:40,629 --> 00:05:38,400
into the solar system and what we might

177
00:05:42,469 --> 00:05:40,639
be able to accomplish there as a as nasa

178
00:05:44,390 --> 00:05:42,479
and an international partnership so it's

179
00:05:46,629 --> 00:05:44,400
it's fun and it's exciting we're looking

180
00:05:48,230 --> 00:05:46,639
forward to transforming the station and

181
00:05:50,390 --> 00:05:48,240
and trying to

182
00:05:52,230 --> 00:05:50,400
trying to help those guys get into low

183
00:05:54,629 --> 00:05:52,240
earth orbit absolutely a milestone not

184
00:05:56,790 --> 00:05:54,639
just for nasa but also for the united

185
00:05:59,189 --> 00:05:56,800
states right absolutely absolutely this

186
00:06:01,189 --> 00:05:59,199
is uh again this is part of our

187
00:06:03,110 --> 00:06:01,199
our foundation as a country to do these

188
00:06:05,749 --> 00:06:03,120

kinds of things like exploration and

189
00:06:08,390 --> 00:06:05,759
it's fun it's fun to be a part of it and

190
00:06:10,710 --> 00:06:08,400
it's fun to have a station program

191
00:06:12,230 --> 00:06:10,720
that's doing as much as we can looking

192
00:06:13,909 --> 00:06:12,240
down and trying to trying to help our

193
00:06:16,150 --> 00:06:13,919
planet but at the same time looking up

194
00:06:17,749 --> 00:06:16,160
and and trying to figure out how to