



1
00:00:05,190 --> 00:00:02,710
cbs news this is mission control houston

2
00:00:07,190 --> 00:00:05,200
please call station for a voice check

3
00:00:12,390 --> 00:00:07,200
station this is cbs news radio at

4
00:00:16,310 --> 00:00:14,629
is this bill i've got you loud and clear

5
00:00:18,390 --> 00:00:16,320
well actually it's peter king but bill

6
00:00:20,230 --> 00:00:18,400
harwood is with me and we both have

7
00:00:21,590 --> 00:00:20,240
questions for you this morning dan first

8
00:00:22,950 --> 00:00:21,600
of all good morning and happy

9
00:00:25,109 --> 00:00:22,960
thanksgiving

10
00:00:27,429 --> 00:00:25,119
the holiday tomorrow we're wondering how

11
00:00:29,589 --> 00:00:27,439
you celebrate what you'll eat and you

12
00:00:34,870 --> 00:00:29,599
even have time to enjoy a holiday this

13
00:00:39,430 --> 00:00:37,190

peter good morning to you too um

14

00:00:41,110 --> 00:00:39,440

yes tomorrow it's going to be a day off

15

00:00:42,790 --> 00:00:41,120

for us it'll be a holiday and we'll get

16

00:00:45,270 --> 00:00:42,800

a chance to celebrate

17

00:00:47,670 --> 00:00:45,280

with uh with our our families at least

18

00:00:50,950 --> 00:00:47,680

remotely from space station um for

19

00:00:54,229 --> 00:00:50,960

myself i i've got some turkey

20

00:00:57,830 --> 00:00:54,239

some cranberry dressing stuffing um all

21

00:00:59,750 --> 00:00:57,840

of the standard traditional uh

22

00:01:01,349 --> 00:00:59,760

for a thanksgiving meal already lined up

23

00:01:03,110 --> 00:01:01,359

and ready to go and we've got enough for

24

00:01:04,070 --> 00:01:03,120

anton and anatoly and i all three to

25

00:01:05,990 --> 00:01:04,080

share

26
00:01:08,149 --> 00:01:06,000
the three of you have really had kind of

27
00:01:10,390 --> 00:01:08,159
a rush 10 days really hitting the ground

28
00:01:11,990 --> 00:01:10,400
running how's the early going been and

29
00:01:16,710 --> 00:01:12,000
what's at the top of your to-do list

30
00:01:20,310 --> 00:01:18,550
well it actually has been been really

31
00:01:21,830 --> 00:01:20,320
busy it's it's been busy for the two

32
00:01:23,270 --> 00:01:21,840
months actually leading up the launch

33
00:01:24,550 --> 00:01:23,280
too peter

34
00:01:33,270 --> 00:01:24,560
we

35
00:01:34,789 --> 00:01:33,280
saw them off on their way back home

36
00:01:37,429 --> 00:01:34,799
yesterday

37
00:01:39,670 --> 00:01:37,439
we basically as quickly as possible

38
00:01:41,429 --> 00:01:39,680

tried to learn our way around the space

39

00:01:43,270 --> 00:01:41,439

station from a system standpoint

40

00:01:45,270 --> 00:01:43,280

payloads and all the rest

41

00:01:47,030 --> 00:01:45,280

and we've hardly even had a chance to

42

00:01:49,030 --> 00:01:47,040

unpack our things and get settled into

43

00:01:50,550 --> 00:01:49,040

our crew quarters so i guess for us

44

00:01:52,630 --> 00:01:50,560

right now for tomorrow for the holiday

45

00:01:54,550 --> 00:01:52,640

that's probably pretty high on the list

46

00:01:57,190 --> 00:01:54,560

of priorities is just complete the the

47

00:01:59,429 --> 00:01:57,200

moving in process if you will

48

00:02:00,149 --> 00:01:59,439

hey dennis bill harwood uh we were all

49

00:02:01,749 --> 00:02:00,159

uh

50

00:02:03,190 --> 00:02:01,759

mightily impressed to watch you take off

51
00:02:05,590 --> 00:02:03,200
in what looked like a blizzard the other

52
00:02:07,030 --> 00:02:05,600
day that's quite a quite an all-weather

53
00:02:08,710 --> 00:02:07,040
machine the russians have what was

54
00:02:10,309 --> 00:02:08,720
launched like how was uh from a shuttle

55
00:02:14,229 --> 00:02:10,319
guys perspective what was it like riding

56
00:02:18,630 --> 00:02:16,790
yeah great question bill uh to me

57
00:02:21,270 --> 00:02:18,640
actually the sensations of the ride

58
00:02:23,910 --> 00:02:21,280
uphill were pretty much the same i think

59
00:02:25,430 --> 00:02:23,920
the acceleration profiles very similar

60
00:02:28,470 --> 00:02:25,440
to what the shuttle is

61
00:02:30,550 --> 00:02:28,480
we all have to go to from zero to 17 500

62
00:02:32,070 --> 00:02:30,560
miles an hour in about nine minutes or

63
00:02:33,430 --> 00:02:32,080

so and that's that's pretty much the

64

00:02:35,430 --> 00:02:33,440

same

65

00:02:37,589 --> 00:02:35,440

the accommodations are a little bit more

66

00:02:39,270 --> 00:02:37,599

uh cozy i guess i'd put it so it's a lot

67

00:02:40,470 --> 00:02:39,280

smaller inside

68

00:02:44,869 --> 00:02:40,480

but

69

00:02:46,869 --> 00:02:44,879

pretty much the same getting into the

70

00:02:48,229 --> 00:02:46,879

rocket was a little bit different

71

00:02:50,630 --> 00:02:48,239

as you mentioned

72

00:02:52,949 --> 00:02:50,640

with the snow and we also had a lot of

73

00:02:55,350 --> 00:02:52,959

of fog that's kind of caused by

74

00:02:57,509 --> 00:02:55,360

uh the super cooled propellant that's in

75

00:03:01,430 --> 00:02:57,519

the rocket basically chilling down the

76

00:03:04,229 --> 00:03:01,440

air so it was uh it was basically a

77

00:03:07,190 --> 00:03:04,239

bucket brigade of the very specialists

78

00:03:09,750 --> 00:03:07,200

and strap in crews and uh in russian uh

79

00:03:12,070 --> 00:03:09,760

space agency management that kind of led

80

00:03:13,910 --> 00:03:12,080

us in our uh in our snow suits i think

81

00:03:15,990 --> 00:03:13,920

you might have seen those as well uh to

82

00:03:18,470 --> 00:03:16,000

the ladder to to make our way up to the

83

00:03:20,790 --> 00:03:18,480

to the elevator and on board and uh and

84

00:03:22,390 --> 00:03:20,800

there was basically two arms length

85

00:03:25,350 --> 00:03:22,400

worth of it worth of visibility on the

86

00:03:27,110 --> 00:03:25,360

way in um but once you got inside it was

87

00:03:29,430 --> 00:03:27,120

it was just like you trained in the sim

88

00:03:30,789 --> 00:03:29,440

and uh and actually very neat

89

00:03:32,470 --> 00:03:30,799

very cool you know i know with the short

90

00:03:34,869 --> 00:03:32,480

hand handover you guys are still getting

91

00:03:36,470 --> 00:03:34,879

your your space legs i guess but

92

00:03:38,470 --> 00:03:36,480

one question i had looking down the road

93

00:03:39,830 --> 00:03:38,480

i'd seen a reference earlier about uh

94

00:03:41,990 --> 00:03:39,840

main bus switching unit number one

95

00:03:43,190 --> 00:03:42,000

having some some difficulties and and

96

00:03:44,789 --> 00:03:43,200

that might be something you end up

97

00:03:47,110 --> 00:03:44,799

having to go outside and do something

98

00:03:49,030 --> 00:03:47,120

about what what's the status of mbsu-1

99

00:03:53,830 --> 00:03:49,040

and and what might be on your plate

100

00:03:57,270 --> 00:03:54,789

yeah

101
00:03:58,949 --> 00:03:57,280
well right now mbsu-1 is still working

102
00:04:00,949 --> 00:03:58,959
from the standpoint of passing power

103
00:04:03,030 --> 00:04:00,959
from all the from the upstream power

104
00:04:05,589 --> 00:04:03,040
source that being the solar rays down to

105
00:04:07,350 --> 00:04:05,599
the downstream load so it's it's doing

106
00:04:09,990 --> 00:04:07,360
its job in passing power but it's not

107
00:04:11,990 --> 00:04:10,000
talking to the computers that control it

108
00:04:13,990 --> 00:04:12,000
right now so it's what we call a loss a

109
00:04:15,910 --> 00:04:14,000
calm situation right now but it's

110
00:04:17,990 --> 00:04:15,920
functioning and doing all the things it

111
00:04:20,069 --> 00:04:18,000
needs to to keep all the loads working

112
00:04:21,909 --> 00:04:20,079
as a precaution we've got

113
00:04:25,189 --> 00:04:21,919

a jumper cable that we've installed

114

00:04:27,350 --> 00:04:25,199

that'll protect us from the mbsu failing

115

00:04:29,749 --> 00:04:27,360

outright and potentially losing some

116

00:04:31,830 --> 00:04:29,759

critical loads inside the space station

117

00:04:33,990 --> 00:04:31,840

we also have another jumper that'll

118

00:04:35,830 --> 00:04:34,000

protect us from a similar failure

119

00:04:38,710 --> 00:04:35,840

causing us to lose some of our external

120

00:04:40,629 --> 00:04:38,720

cooling so that one's in standby but the

121

00:04:43,110 --> 00:04:40,639

jumper to protect all the internal loads

122

00:04:45,350 --> 00:04:43,120

that's in place should it actually fail

123

00:04:47,510 --> 00:04:45,360

entirely then that would be a reason to

124

00:04:50,070 --> 00:04:47,520

go outside and uh and repair it i think

125

00:04:51,990 --> 00:04:50,080

so uh but right now uh right now it

126

00:04:53,430 --> 00:04:52,000

seems to be doing its job okay

127

00:04:55,510 --> 00:04:53,440

yeah and would you be the one that would

128

00:04:57,270 --> 00:04:55,520

go outside would it be uh

129

00:04:59,189 --> 00:04:57,280

i'm assuming it would be you but i'm not

130

00:05:05,670 --> 00:04:59,199

sure about that if it happened early

131

00:05:09,270 --> 00:05:07,990

if it lasted if it worked okay to

132

00:05:10,550 --> 00:05:09,280

through the end of our expedition then

133

00:05:12,390 --> 00:05:10,560

we would probably

134

00:05:14,870 --> 00:05:12,400

want to defer that as long as possible

135

00:05:17,670 --> 00:05:14,880

and put it on the next planned u.s eva

136

00:05:20,070 --> 00:05:17,680

for example usc va 18.

137

00:05:22,230 --> 00:05:20,080

if it fails between now and the end of

138

00:05:25,350 --> 00:05:22,240

our expedition then likely what we would

139

00:05:28,070 --> 00:05:25,360

do is i'd go outside either with andre

140

00:05:30,790 --> 00:05:28,080

kuipers or with don pettit and

141

00:05:31,909 --> 00:05:30,800

and the other of the two of them i one

142

00:05:33,590 --> 00:05:31,919

of the other the other of the two of

143

00:05:35,590 --> 00:05:33,600

them would probably either do arm

144

00:05:37,749 --> 00:05:35,600

support from a camera an overall viewing

145

00:05:40,710 --> 00:05:37,759

standpoint or potentially if it was

146

00:05:41,909 --> 00:05:40,720

complicated arm operations uh to the

147

00:05:44,550 --> 00:05:41,919

degree that

148

00:05:46,550 --> 00:05:44,560

one of one of the two eba crew members

149

00:05:48,790 --> 00:05:46,560

needed to be in a foot restraint mounted

150

00:05:52,629 --> 00:05:48,800

on the arm probably i think don would be

151
00:05:54,230 --> 00:05:52,639
inside flying the arm for that operation

152
00:05:55,909 --> 00:05:54,240
dan you've got the daily double of

153
00:05:57,350 --> 00:05:55,919
holidays that you'll be missing here on

154
00:06:00,469 --> 00:05:57,360
earth not just thanksgiving but

155
00:06:03,270 --> 00:06:00,479
christmas and add new years to that

156
00:06:05,909 --> 00:06:03,280
did i say don dan excuse me how tough is

157
00:06:07,830 --> 00:06:05,919
it to be be away from your family and

158
00:06:09,990 --> 00:06:07,840
and i'm wondering if on that last

159
00:06:12,070 --> 00:06:10,000
progress that came up if you've got

160
00:06:17,830 --> 00:06:12,080
christmas packages uh that are on there

161
00:06:21,510 --> 00:06:19,350
no i sure do peter actually i had a

162
00:06:23,590 --> 00:06:21,520
halloween package and a thanksgiving

163
00:06:24,870 --> 00:06:23,600

package and then i've got

164

00:06:26,390 --> 00:06:24,880

actually i haven't opened that one yet

165

00:06:28,390 --> 00:06:26,400

i'm not allowed to until tomorrow

166

00:06:29,909 --> 00:06:28,400

morning and there's also a christmas

167

00:06:31,990 --> 00:06:29,919

package and we actually got some things

168

00:06:35,350 --> 00:06:32,000

for all three of us for christmas anton

169

00:06:36,710 --> 00:06:35,360

anatoly and i um it's it's always tough

170

00:06:38,550 --> 00:06:36,720

being away from your family and and

171

00:06:40,070 --> 00:06:38,560

that's one aspect of space flight and

172

00:06:41,590 --> 00:06:40,080

it's been that way for a long time and

173

00:06:44,390 --> 00:06:41,600

for crews that do long duration you're

174

00:06:46,150 --> 00:06:44,400

away for a considerable period of time

175

00:06:48,150 --> 00:06:46,160

during the training leading up to launch

176

00:06:50,469 --> 00:06:48,160

the two years or two and a half years

177

00:06:52,309 --> 00:06:50,479

you also spend an awful long time

178

00:06:54,629 --> 00:06:52,319

away from family on the road and so

179

00:06:56,230 --> 00:06:54,639

forth and in kind of an interesting

180

00:06:58,550 --> 00:06:56,240

sense now that i've got on board space

181

00:07:00,790 --> 00:06:58,560

station i actually have a little bit

182

00:07:03,510 --> 00:07:00,800

better communication with the family

183

00:07:05,830 --> 00:07:03,520

right now i almost feel like i'm i'm uh

184

00:07:07,510 --> 00:07:05,840

i'm i'm with them to a greater extent

185

00:07:10,550 --> 00:07:07,520

than i would be if i was overseas for

186

00:07:12,629 --> 00:07:10,560

example in star city or uh in in europe

187

00:07:14,790 --> 00:07:12,639

or japan and that's because we've got a

188

00:07:17,510 --> 00:07:14,800

great capability on board to video

189

00:07:19,510 --> 00:07:17,520

conference so at the very least a couple

190

00:07:21,270 --> 00:07:19,520

of times a week one time a week for sure

191

00:07:22,950 --> 00:07:21,280

and this week definitely tomorrow as

192

00:07:24,870 --> 00:07:22,960

well i'll have a a two-way video

193

00:07:25,909 --> 00:07:24,880

conference with the family

194

00:07:28,390 --> 00:07:25,919

and then

195

00:07:30,309 --> 00:07:28,400

they can watch me to the degree that

196

00:07:32,950 --> 00:07:30,319

it's it's not too boring for them they

197

00:07:36,469 --> 00:07:32,960

can watch me almost any time on

198

00:07:38,550 --> 00:07:36,479

on iss live or on the nasa nasa tv

199

00:07:40,790 --> 00:07:38,560

website so

200

00:07:42,790 --> 00:07:40,800

they're always watching me i get a

201
00:07:45,350 --> 00:07:42,800
chance to see them i can call them a

202
00:07:47,029 --> 00:07:45,360
couple of times a day without almost you

203
00:07:48,869 --> 00:07:47,039
know any problem at all

204
00:07:50,469 --> 00:07:48,879
and and that's really neat so they they

205
00:07:52,869 --> 00:07:50,479
feel like they're with me you know here

206
00:07:55,270 --> 00:07:52,879
at ksc we're awaiting another launch the

207
00:07:56,869 --> 00:07:55,280
mars science lab and curiosity rover on

208
00:07:58,550 --> 00:07:56,879
saturday morning you're going to be home

209
00:08:00,150 --> 00:07:58,560
of course by the time it lands on mars

210
00:08:06,150 --> 00:08:00,160
but i'm wondering what about this

211
00:08:08,629 --> 00:08:07,909
well i think all the mars missions are

212
00:08:13,510 --> 00:08:08,639
are

213
00:08:15,189 --> 00:08:13,520

ultimate goal in the next couple of

214

00:08:17,589 --> 00:08:15,199

decades for human space flight is to go

215

00:08:20,230 --> 00:08:17,599

to mars it's the most earth-like planet

216

00:08:22,469 --> 00:08:20,240

in the solar system it's a planet that

217

00:08:24,550 --> 00:08:22,479

uh many millions billions of years ago

218

00:08:25,990 --> 00:08:24,560

was probably very similar to earth and

219

00:08:27,670 --> 00:08:26,000

very wet

220

00:08:29,990 --> 00:08:27,680

and it could be it could very well be

221

00:08:32,389 --> 00:08:30,000

that there are uh there's evidence of

222

00:08:35,509 --> 00:08:32,399

life and potentially even current life

223

00:08:38,230 --> 00:08:35,519

albeit in a in a in a very simple form

224

00:08:40,389 --> 00:08:38,240

buried in the soil of mars so

225

00:08:42,709 --> 00:08:40,399

as we've gradually gone from you know

226

00:08:45,430 --> 00:08:42,719

from viking uh to the spirit and

227

00:08:46,550 --> 00:08:45,440

opportunity rovers to now mars science

228

00:08:48,870 --> 00:08:46,560

laboratory we have more and more

229

00:08:50,870 --> 00:08:48,880

capability to do actually in-situ

230

00:08:53,829 --> 00:08:50,880

analysis with essentially a laboratory

231

00:08:55,190 --> 00:08:53,839

that can analyze samples and and uh and

232

00:08:56,870 --> 00:08:55,200

potentially if not give us direct

233

00:08:59,190 --> 00:08:56,880

indication that there's life give us

234

00:09:02,389 --> 00:08:59,200

some very strong clues and it's a it's a

235

00:09:04,070 --> 00:09:02,399

great way to pave the future uh flights

236

00:09:06,470 --> 00:09:04,080

the future human flights that i think

237

00:09:08,310 --> 00:09:06,480

are destined to go there and dan as we

238

00:09:10,630 --> 00:09:08,320

close out we did have a request from a

239

00:09:12,710 --> 00:09:10,640

twitter follower who wants to know when

240

00:09:14,870 --> 00:09:12,720

you'll start tweeting and hopefully

241

00:09:17,430 --> 00:09:14,880

it'll be soon when things settle down

242

00:09:19,590 --> 00:09:17,440

have a great thanksgiving and from bill

243

00:09:21,110 --> 00:09:19,600

and bill and me bill and i hope you have

244

00:09:25,190 --> 00:09:21,120

a very safe mission we look forward to

245

00:09:28,630 --> 00:09:26,630

peter bill it was great to have you on

246

00:09:30,949 --> 00:09:28,640

board great talking with you and that's

247

00:09:32,949 --> 00:09:30,959

on my list of things to do when the in

248

00:09:34,230 --> 00:09:32,959

all the uh the hectic time leading up to

249

00:09:36,150 --> 00:09:34,240

launch and the time we've had on board

250

00:09:38,070 --> 00:09:36,160

so far i haven't been able to keep up

251

00:09:39,990 --> 00:09:38,080

with that but i will you you folks take

252

00:09:44,630 --> 00:09:40,000

care have a wonderful thanksgiving and

253

00:09:53,190 --> 00:09:46,949

station this is houston acr

254

00:09:57,269 --> 00:09:55,269

and thank you cbs news station please