



1
00:01:18,080 --> 00:01:11,810
hello Mike you look terrific huh how do

2
00:01:19,789 --> 00:01:18,090
you know not how do you look um things

3
00:01:21,109 --> 00:01:19,799
have been going pretty good here we just

4
00:01:23,300 --> 00:01:21,119
got up and we're getting ready for a new

5
00:01:25,490 --> 00:01:23,310
day to unload the progress a little bit

6
00:01:27,469 --> 00:01:25,500
more and start getting ready for this

7
00:01:29,960 --> 00:01:27,479
it's pretty exciting e vai think the too

8
00:01:33,100 --> 00:01:29,970
much you guys are gonna do for sealian

9
00:01:35,569 --> 00:01:33,110
Sasha and about a week's time we think

10
00:01:40,460 --> 00:01:35,579
did you get everything you need in the

11
00:01:42,770 --> 00:01:40,470
progress vehicle yes i did i'm really

12
00:01:44,359 --> 00:01:42,780
grateful to the guys who really hustled

13
00:01:46,339 --> 00:01:44,369

i mean they did an amazing piece of work

14

00:01:48,320 --> 00:01:46,349

in there about two weeks get some pieces

15

00:01:50,809 --> 00:01:48,330

together for me and i'm pretty much set

16

00:01:54,260 --> 00:01:50,819

up now in the command to module which is

17

00:01:56,899 --> 00:01:54,270

where the airlock is going outside the

18

00:01:59,330 --> 00:01:56,909

space station and it joins on through

19

00:02:01,669 --> 00:01:59,340

the the node of this station complex

20

00:02:05,449 --> 00:02:01,679

where the EBA we've done by bazillion

21

00:02:08,300 --> 00:02:05,459

Sasha please are you getting enough rest

22

00:02:13,580 --> 00:02:08,310

and do you think everyone will be ready

23

00:02:14,930 --> 00:02:13,590

for the EV a yes I think so i think the

24

00:02:16,400 --> 00:02:14,940

ground understands that you know we have

25

00:02:17,930 --> 00:02:16,410

an awful lot of work to do here and

26

00:02:20,090 --> 00:02:17,940

we're getting very pretty fast and

27

00:02:21,559 --> 00:02:20,100

efficiently i think and we'll probably

28

00:02:25,789 --> 00:02:21,569

get the extra day or two of grace that's

29

00:02:28,400 --> 00:02:25,799

gonna be me decision yeah i think it's

30

00:02:30,430 --> 00:02:28,410

important that we know what your own

31

00:02:33,590 --> 00:02:30,440

physical constraints are and you're

32

00:02:35,660 --> 00:02:33,600

living constraints and i'm glad to see

33

00:02:37,520 --> 00:02:35,670

that you feel comfortable about that how

34

00:02:39,650 --> 00:02:37,530

do you feel about your safety you feel

35

00:02:43,970 --> 00:02:39,660

comfortable sanguine with it at the

36

00:02:45,229 --> 00:02:43,980

present time say your ad you come just

37

00:02:47,360 --> 00:02:45,239

dropped a safe to say that again please

38

00:02:49,160 --> 00:02:47,370

how do you feel about the safety

39

00:02:52,789 --> 00:02:49,170

conditions on board right now are you

40

00:02:56,330 --> 00:02:52,799

sanguine with it I've always been

41

00:02:59,000 --> 00:02:56,340

signing with it um I think basically we

42

00:03:01,309 --> 00:02:59,010

have time to move even in pretty extreme

43

00:03:04,039 --> 00:03:01,319

situation where we have a leak and the

44

00:03:05,720 --> 00:03:04,049

pressure is falling pretty fast we had

45

00:03:10,520 --> 00:03:05,730

time to think and consider about what

46

00:03:12,470 --> 00:03:10,530

we're doing oops but this is our friend

47

00:03:14,900 --> 00:03:12,480

that we put up on the progress it's

48

00:03:18,159 --> 00:03:14,910

going to be used to seal up to fill out

49

00:03:20,500 --> 00:03:18,169

the pass through the umbilicals from the

50

00:03:23,770 --> 00:03:20,510

module spectra

51
00:03:26,259 --> 00:03:23,780
and what's this is going to attach onto

52
00:03:27,910 --> 00:03:26,269
the module Specter on to the end cone

53
00:03:30,940 --> 00:03:27,920
imagine inspector stretching off this

54
00:03:33,640 --> 00:03:30,950
way to the side and on the inside of a

55
00:03:36,990 --> 00:03:33,650
node there will be accessible to us

56
00:03:39,339 --> 00:03:37,000
under North pressure these connectors

57
00:03:41,559 --> 00:03:39,349
but what the sealian sash we're going to

58
00:03:43,000 --> 00:03:41,569
do is on the back side there were

59
00:03:45,850 --> 00:03:43,010
already been stuck for the cables like

60
00:03:47,949 --> 00:03:45,860
the kind of Medusa room tables and then

61
00:03:50,199 --> 00:03:47,959
during the EV a the city of special

62
00:03:52,960 --> 00:03:50,209
connect to these cables the parquet was

63
00:03:55,390 --> 00:03:52,970

that about floating free inspector that

64

00:03:59,289 --> 00:03:55,400
would provide the means to get the power

65

00:04:00,460 --> 00:03:59,299
prospective to the base block so I've

66

00:04:03,910 --> 00:04:00,470
got distracted there by this thing

67

00:04:06,309 --> 00:04:03,920
plating infamy generally the safety

68

00:04:10,210 --> 00:04:06,319
concerns here though I think or wilmette

69

00:04:11,800 --> 00:04:10,220
and I'm not I'm not worried tell you my

70

00:04:14,349 --> 00:04:11,810
hats off to our Russian colleagues

71

00:04:17,259 --> 00:04:14,359
that's one incredible piece of hardware

72

00:04:19,120 --> 00:04:17,269
to put together in days I wish we had

73

00:04:21,460 --> 00:04:19,130
the rapid reaction time in the united

74

00:04:23,529 --> 00:04:21,470
states that i see sitting in your hand

75

00:04:27,000 --> 00:04:23,539
there we have a lot to learn from the

76

00:04:29,290 --> 00:04:27,010

Russians i agree with you i am

77

00:04:31,870 --> 00:04:29,300

particularly impressed by this is the

78

00:04:33,939 --> 00:04:31,880

way the the plan is come together exec

79

00:04:36,159 --> 00:04:33,949

Gary cross was on the console asking us

80

00:04:39,159 --> 00:04:36,169

questions even if I a day or two after

81

00:04:40,839 --> 00:04:39,169

the the access and sweet I had to ask

82

00:04:42,339 --> 00:04:40,849

you what are you extending I could tell

83

00:04:44,170 --> 00:04:42,349

there something going on is that this is

84

00:04:45,730 --> 00:04:44,180

what they invented and I must say the

85

00:04:48,040 --> 00:04:45,740

plans with mike is coming together and

86

00:04:49,360 --> 00:04:48,050

you know we had a lot of questions

87

00:04:51,820 --> 00:04:49,370

there's still are questions about how to

88

00:04:54,189 --> 00:04:51,830

do the VA where i'll be during it in the

89

00:04:56,560 --> 00:04:54,199

Soyuz and what we'll do but i think

90

00:04:59,260 --> 00:04:56,570

those questions are being offered well i

91

00:05:01,750 --> 00:04:59,270

tell you i think this is a very valuable

92

00:05:04,870 --> 00:05:01,760

experience and I salute your courage and

93

00:05:06,760 --> 00:05:04,880

Vasily and Alexander because this could

94

00:05:08,170 --> 00:05:06,770

cover a contingency situation which

95

00:05:10,480 --> 00:05:08,180

could occur in the International Space

96

00:05:12,250 --> 00:05:10,490

Station and learning how to work through

97

00:05:13,990 --> 00:05:12,260

this I think is very important and

98

00:05:18,279 --> 00:05:14,000

sticking with the mission is very

99

00:05:20,200 --> 00:05:18,289

important well I agree with you entirely

100

00:05:21,909 --> 00:05:20,210

on that I think the biggest message I'm

101
00:05:24,129 --> 00:05:21,919
getting out of this is is how do we

102
00:05:26,770 --> 00:05:24,139
respond to a situation and the situation

103
00:05:28,120 --> 00:05:26,780
isn't going to be a one-off occurrence

104
00:05:29,709 --> 00:05:28,130
so we're going to have events like this

105
00:05:31,990 --> 00:05:29,719
i think in the future in our combined

106
00:05:33,790 --> 00:05:32,000
space programs and the way we're going

107
00:05:35,110 --> 00:05:33,800
to work together the way we are

108
00:05:39,240 --> 00:05:35,120
standing how people respond to these

109
00:05:41,920 --> 00:05:39,250
emergencies very very useful you know

110
00:05:43,390 --> 00:05:41,930
we're getting down on the surface of

111
00:05:44,710 --> 00:05:43,400
Mars and I don't think you've had the

112
00:05:47,290 --> 00:05:44,720
privilege of seeing some of the

113
00:05:48,969 --> 00:05:47,300

incredible pictures Michael train

114

00:05:55,270 --> 00:05:48,979

because you're still young enough to go

115

00:05:56,290 --> 00:05:55,280

to Mars I love to hear that no I i we

116

00:05:58,779 --> 00:05:56,300

have been really thrilled to hear about

117

00:06:00,580 --> 00:05:58,789

the Mars landing and I must say I think

118

00:06:02,170 --> 00:06:00,590

we were the sum of the few people I see

119

00:06:03,490 --> 00:06:02,180

were off the planet but you know from

120

00:06:07,330 --> 00:06:03,500

Earth who have not seen those pictures

121

00:06:09,100 --> 00:06:07,340

yet we want to very much and and i've

122

00:06:10,540 --> 00:06:09,110

only been thinking about what's going

123

00:06:12,399 --> 00:06:10,550

although Mars with that that fantastic

124

00:06:15,100 --> 00:06:12,409

land apart find it when we're playing

125

00:06:17,200 --> 00:06:15,110

over northern Africa it's it's a red red

126

00:06:19,089 --> 00:06:17,210

sand now there's almost no clouds

127

00:06:21,760 --> 00:06:19,099

present and of course it's a little bit

128

00:06:22,749 --> 00:06:21,770

of a blue tint to the horizon but it

129

00:06:24,309 --> 00:06:22,759

makes me think about what it would be

130

00:06:25,930 --> 00:06:24,319

like to be an orbit around Mars and I do

131

00:06:28,600 --> 00:06:25,940

think we should be doing that pretty

132

00:06:30,189 --> 00:06:28,610

soon got wonderful briefings today from

133

00:06:32,649 --> 00:06:30,199

the brilliant young people here at the

134

00:06:34,510 --> 00:06:32,659

Johnson Space Center and I challenged

135

00:06:36,879 --> 00:06:34,520

them to get us to Mars for a very very

136

00:06:39,999 --> 00:06:36,889

low price in a short period of time and

137

00:06:41,950 --> 00:06:40,009

do outstanding work and I tell you we're

138

00:06:44,140 --> 00:06:41,960

gonna pull it off and I think we're

139

00:06:46,089 --> 00:06:44,150

gonna do it in your career time all

140

00:06:47,950 --> 00:06:46,099

right well I could believe that because

141

00:06:49,390 --> 00:06:47,960

I'm so impressed by the way the

142

00:06:51,610 --> 00:06:49,400

Pathfinder mission has gone off i think

143

00:06:53,589 --> 00:06:51,620

the way that was done for so much less

144

00:06:55,140 --> 00:06:53,599

money than in the past and done so

145

00:06:57,519 --> 00:06:55,150

quickly was really really impressive

146

00:07:00,999 --> 00:06:57,529

should see the excitement of the young

147

00:07:04,450 --> 00:07:01,009

engineers and the mature young engineers

148

00:07:06,369 --> 00:07:04,460

at the JPL they are just on fire I've

149

00:07:08,499 --> 00:07:06,379

been watching them on television I'm so

150

00:07:10,959 --> 00:07:08,509

proud of them I tell you I'm so proud of

151
00:07:12,640 --> 00:07:10,969
the whole NASA team you folks in space

152
00:07:15,490 --> 00:07:12,650
or Russian colleagues and the people

153
00:07:17,200 --> 00:07:15,500
here on the ground and i'll try my best

154
00:07:19,600 --> 00:07:17,210
to get some pictures up to you and

155
00:07:21,279 --> 00:07:19,610
facility and alexander as soon as

156
00:07:24,369 --> 00:07:21,289
humanly possible because i'd like you to

157
00:07:26,320 --> 00:07:24,379
share the excitement with us thank you

158
00:07:27,969 --> 00:07:26,330
very much we'd appreciate that and i'd

159
00:07:29,830 --> 00:07:27,979
like to offer my congratulations to the

160
00:07:31,480 --> 00:07:29,840
GPS even the NASA team that has called

161
00:07:33,339 --> 00:07:31,490
all this stuff off and i'd like to thank

162
00:07:35,019 --> 00:07:33,349
you i'd like to thank everybody in

163
00:07:39,279 --> 00:07:35,029

particular for the incredible response

164

00:07:43,029 --> 00:07:39,289

in our own presence at a moment I found

165

00:07:45,339 --> 00:07:43,039

a response instantaneous helpful there

166

00:07:47,410 --> 00:07:45,349

was never any feeling that you know the

167

00:07:50,020 --> 00:07:47,420

communication was down or lacking

168

00:07:51,370 --> 00:07:50,030

and I'm very grateful for the NASA team

169

00:07:56,920 --> 00:07:51,380

and for the Russian team for what

170

00:07:58,900 --> 00:07:56,930

they've done well I tell you Michael we

171

00:08:00,730 --> 00:07:58,910

think you're terrific we think Vasily

172

00:08:02,980 --> 00:08:00,740

and Alexander's terrific there's a lot

173

00:08:05,680 --> 00:08:02,990

of people on the ground that read about

174

00:08:09,240 --> 00:08:05,690

you and see you on TV day and night our

175

00:08:11,890 --> 00:08:09,250

thoughts are with you and play it safe

176

00:08:13,690 --> 00:08:11,900

name is Natalie woods from Shaw hice

177

00:08:18,910 --> 00:08:13,700

well and what is your role as the

178

00:08:21,550 --> 00:08:18,920

mission specialist my role as a mission

179

00:08:23,530 --> 00:08:21,560

specialist on this flight is to do a lot

180

00:08:25,390 --> 00:08:23,540

of the science experiments I'm a member

181

00:08:27,760 --> 00:08:25,400

of the orbiter of the payload crew here

182

00:08:29,260 --> 00:08:27,770

we're split up into two halves at the

183

00:08:30,730 --> 00:08:29,270

astronauts are running the shuttle and

184

00:08:32,380 --> 00:08:30,740

taking care of all the shuttle systems

185

00:08:34,150 --> 00:08:32,390

the other half or take care of the

186

00:08:36,310 --> 00:08:34,160

experiments back in space that module

187

00:08:38,380 --> 00:08:36,320

where I am right now and part of the

188

00:08:40,990 --> 00:08:38,390

payload crew and we work back here in

189

00:08:46,120 --> 00:08:41,000

two shifts around the clock 24 hours a

190

00:08:48,880 --> 00:08:46,130

day my name is Katie arruda from

191

00:08:54,760 --> 00:08:48,890

magnificat high school and how do you

192

00:08:56,500 --> 00:08:54,770

start a controlled fire in space well we

193

00:08:59,020 --> 00:08:56,510

have a number of combustion experiments

194

00:09:01,450 --> 00:08:59,030

and to control the fires we have special

195

00:09:03,850 --> 00:09:01,460

combustion chambers that they protect us

196

00:09:05,440 --> 00:09:03,860

and the fires from spreading there are

197

00:09:07,600 --> 00:09:05,450

many layers of containment so they don't

198

00:09:09,070 --> 00:09:07,610

get out of control and I'm standing in

199

00:09:10,390 --> 00:09:09,080

front of where the experiments right

200

00:09:13,390 --> 00:09:10,400

here it's a droplet combustion

201
00:09:15,580 --> 00:09:13,400
experiment and it's just an example it's

202
00:09:17,740 --> 00:09:15,590
a pretty heavy steel chamber where the

203
00:09:20,200 --> 00:09:17,750
combustion process actually takes place

204
00:09:22,060 --> 00:09:20,210
so we'll well protect it from any

205
00:09:24,010 --> 00:09:22,070
explosions are from the fires you know

206
00:09:28,150 --> 00:09:24,020
getting out and detecting other parts of

207
00:09:29,770 --> 00:09:28,160
the shuttle my name is David Laska I'm

208
00:09:32,860 --> 00:09:29,780
from holy cross school I'm in a

209
00:09:34,990 --> 00:09:32,870
university program for the summer my

210
00:09:40,870 --> 00:09:35,000
question is do you ever get a chance to

211
00:09:42,520 --> 00:09:40,880
talk to your family in private that's a

212
00:09:45,370 --> 00:09:42,530
great question and it's a coincidence

213
00:09:47,620 --> 00:09:45,380

that I just talked to my wife and my son

214

00:09:49,330 --> 00:09:47,630

have a two-year-old boy and I was able

215

00:09:51,460 --> 00:09:49,340

to talk to them and on this flight

216

00:09:53,140 --> 00:09:51,470

that's the first flight uh driving an

217

00:09:55,360 --> 00:09:53,150

astronaut that we've been able to have

218

00:09:57,010 --> 00:09:55,370

two-way video so i could actually look

219

00:09:58,780 --> 00:09:57,020

at a little video monitor of my

220

00:10:00,730 --> 00:09:58,790

my son sitting there and they were

221

00:10:02,320 --> 00:10:00,740

having they could see a monitor watching

222

00:10:05,350 --> 00:10:02,330

me and we were having a conversation for

223

00:10:07,240 --> 00:10:05,360

maybe 15 minutes and then maybe two

224

00:10:09,130 --> 00:10:07,250

hours later I had a a chance on an

225

00:10:11,710 --> 00:10:09,140

amateur radio to talk to my mother up in

226

00:10:13,660 --> 00:10:11,720

Bloomington Indiana so long but

227

00:10:15,460 --> 00:10:13,670

typically we get a chance maybe every

228

00:10:16,960 --> 00:10:15,470

four days or so to talk to our families

229

00:10:19,300 --> 00:10:16,970

to have one of these video conferences

230

00:10:21,010 --> 00:10:19,310

we do have electronic mail that we can

231

00:10:22,330 --> 00:10:21,020

transfer back and forth then we talk to

232

00:10:25,180 --> 00:10:22,340

our families send messages back and

233

00:10:26,620 --> 00:10:25,190

forth on a daily basis it for the

234

00:10:28,360 --> 00:10:26,630

greatest things every day where the

235

00:10:29,860 --> 00:10:28,370

highlights outside of doing the

236

00:10:32,580 --> 00:10:29,870

experiments looking out the window it's

237

00:10:35,950 --> 00:10:32,590

always great to get messages from home

238

00:10:37,990 --> 00:10:35,960

hey my name is mya davis I'm from Laurel

239

00:10:40,120 --> 00:10:38,000

high school and I was wondering how do

240

00:10:46,420 --> 00:10:40,130

you go about preventing muscle and bone

241

00:10:49,060 --> 00:10:46,430

degeneration okay I understand yeah up

242

00:10:50,530 --> 00:10:49,070

here you don't use any muscles you know

243

00:10:52,780 --> 00:10:50,540

if I want to move to outdoor but it just

244

00:10:56,890 --> 00:10:52,790

takes a little push of my finger and I

245

00:10:58,540 --> 00:10:56,900

go across the space that module here so

246

00:11:00,510 --> 00:10:58,550

I don't have to use any muscles walking

247

00:11:03,160 --> 00:11:00,520

or getting up and moving anything around

248

00:11:05,500 --> 00:11:03,170

so your muscles do atrophy up in space

249

00:11:07,630 --> 00:11:05,510

what we do is we have an exercise bike

250

00:11:09,220 --> 00:11:07,640

called an odometer and each of us right

251
00:11:11,320 --> 00:11:09,230
at about a half an hour a day and that

252
00:11:13,930 --> 00:11:11,330
helps get your cardiovascular system

253
00:11:15,580 --> 00:11:13,940
gets the blood pumping again and help

254
00:11:17,800 --> 00:11:15,590
keep us in safe a little bit for landing

255
00:11:19,630 --> 00:11:17,810
when we land you know you are a little

256
00:11:21,640 --> 00:11:19,640
bit out of sake I feel like a thousand

257
00:11:23,980 --> 00:11:21,650
pound person trying to get out of my

258
00:11:26,350 --> 00:11:23,990
seat of landing but it takes a half an

259
00:11:30,690 --> 00:11:26,360
hour 45 minutes or so and you're able to

260
00:11:35,020 --> 00:11:33,220
hi my name is Katie Halloran from

261
00:11:38,530 --> 00:11:35,030
magnificat high school and my question

262
00:11:39,910 --> 00:11:38,540
is what environmental information do you

263
00:11:45,280 --> 00:11:39,920

hope to gain from your combustion

264

00:11:48,250 --> 00:11:45,290

experiments the combustion experiments

265

00:11:50,560 --> 00:11:48,260

the main goal a two-fold one is to maybe

266

00:11:51,940 --> 00:11:50,570

increase the efficiency of burning you

267

00:11:53,770 --> 00:11:51,950

know so much of our energy down to the

268

00:11:55,930 --> 00:11:53,780

ground from the automobiles to power

269

00:11:58,660 --> 00:11:55,940

plants and electrical generation that

270

00:12:00,370 --> 00:11:58,670

all combustion processes in which I

271

00:12:02,500 --> 00:12:00,380

understand maybe ways to improve the

272

00:12:04,450 --> 00:12:02,510

efficiency if we can just improve it one

273

00:12:05,980 --> 00:12:04,460

or two percent a very small fractional

274

00:12:06,730 --> 00:12:05,990

increase it would have a major impact

275

00:12:08,470 --> 00:12:06,740

around the

276

00:12:10,810 --> 00:12:08,480

world secondly we're trying to

277

00:12:12,130 --> 00:12:10,820

understand the fit process when flames

278

00:12:14,650 --> 00:12:12,140

burn if you look at a candle flame

279

00:12:16,269 --> 00:12:14,660

you'll see a black suit coming emanating

280

00:12:18,790 --> 00:12:16,279

from the flame and we're trying to

281

00:12:21,040 --> 00:12:18,800

understand better what creates the suit

282

00:12:22,810 --> 00:12:21,050

how do you control that and that a major

283

00:12:27,010 --> 00:12:22,820

impact potentially on the ground from

284

00:12:29,260 --> 00:12:27,020

the pollution point of view hi my name

285

00:12:31,750 --> 00:12:29,270

is Jael panag eres from north ridgeville

286

00:12:33,579 --> 00:12:31,760

hi I was wondering what kind of

287

00:12:35,440 --> 00:12:33,589

preparations do you have to go through

288

00:12:40,420 --> 00:12:35,450

so that you are physically and mentally

289

00:12:43,030 --> 00:12:40,430

ready to perform your tasks that's a

290

00:12:45,340 --> 00:12:43,040

great question physically all astronauts

291

00:12:47,500 --> 00:12:45,350

try to stay in pretty good shape most

292

00:12:49,210 --> 00:12:47,510

people run we have a gym that we all

293

00:12:51,760 --> 00:12:49,220

work out at it and my main activity I

294

00:12:53,290 --> 00:12:51,770

like to go swimming so I swim a mile and

295

00:12:55,960 --> 00:12:53,300

a half almost every single day that I

296

00:12:57,820 --> 00:12:55,970

can we're back on earth and so that

297

00:13:00,190 --> 00:12:57,830

that's the physical part of it mentally

298

00:13:02,230 --> 00:13:00,200

you just have to get prepared you got to

299

00:13:04,240 --> 00:13:02,240

know all your material and work really

300

00:13:05,680 --> 00:13:04,250

hard at it for all these experiments

301
00:13:07,449 --> 00:13:05,690
that were performing on the shuttle here

302
00:13:09,699 --> 00:13:07,459
we've been training for your dad for two

303
00:13:11,470 --> 00:13:09,709
years on each of the experiments to make

304
00:13:13,300 --> 00:13:11,480
sure we know exactly how to perform them

305
00:13:15,579 --> 00:13:13,310
inside and out so that if we have a

306
00:13:18,310 --> 00:13:15,589
problem you know we can solve it up here

307
00:13:20,079 --> 00:13:18,320
so it's a lot of mental training and in

308
00:13:21,670 --> 00:13:20,089
physical training and and then come

309
00:13:23,319 --> 00:13:21,680
launch morning you know you're pretty

310
00:13:25,870 --> 00:13:23,329
psyched to get on the shuttle I'm

311
00:13:28,300 --> 00:13:25,880
probably twenty percent a little frayed

312
00:13:29,920 --> 00:13:28,310
and an eighty percent just you know

313
00:13:31,750 --> 00:13:29,930

psyched out my mind and excited about

314

00:13:33,550 --> 00:13:31,760

going on the trail this is some footage

315

00:13:35,319 --> 00:13:33,560

from yesterday where roger and i did an

316

00:13:37,120 --> 00:13:35,329

in-flight maintenance procedure back in

317

00:13:39,819 --> 00:13:37,130

the lab and the purpose of this

318

00:13:43,569 --> 00:13:39,829

procedure was to rewire a thermocouple

319

00:13:46,990 --> 00:13:43,579

and LIF furnace and basically the way

320

00:13:48,880 --> 00:13:47,000

this works is the ground researches it

321

00:13:51,519 --> 00:13:48,890

for as much time as they need and then

322

00:13:53,170 --> 00:13:51,529

they access our procedure which

323

00:13:56,440 --> 00:13:53,180

basically in this case involves writing

324

00:13:58,389 --> 00:13:56,450

some wires from pins on one side of a

325

00:14:00,550 --> 00:13:58,399

connector two sockets on the other side

326
00:14:02,350 --> 00:14:00,560
of the connector and so we got the wires

327
00:14:04,420 --> 00:14:02,360
out of a little kit that we carry in the

328
00:14:06,910 --> 00:14:04,430
orbiter and then Roger and I both

329
00:14:09,340 --> 00:14:06,920
together very carefully made sure that

330
00:14:12,100 --> 00:14:09,350
we got the wires going from the right

331
00:14:13,960 --> 00:14:12,110
pan to the right socket as it sometimes

332
00:14:15,970 --> 00:14:13,970
the case in space things don't work out

333
00:14:19,300 --> 00:14:15,980
exactly the way you plan and as it

334
00:14:20,329 --> 00:14:19,310
turned out the darn sockets on the ends

335
00:14:22,309 --> 00:14:20,339
of the wires were

336
00:14:24,410 --> 00:14:22,319
mental or the episode I were a little

337
00:14:26,689 --> 00:14:24,420
loose in the sockets on the connector so

338
00:14:29,329 --> 00:14:26,699

they wouldn't stay in and so here you

339

00:14:30,530 --> 00:14:29,339

see me getting some duct tape and I'll

340

00:14:32,420 --> 00:14:30,540

tell you I think we'd be lost without

341

00:14:36,110 --> 00:14:32,430

duct tape up here we use it for pretty

342

00:14:38,509 --> 00:14:36,120

much everything and anyhow we were able

343

00:14:40,220 --> 00:14:38,519

to duct tape those things into place and

344

00:14:43,460 --> 00:14:40,230

then you can see how we've got him

345

00:14:46,489 --> 00:14:43,470

restrained there and it worked it was

346

00:14:48,280 --> 00:14:46,499

very successful and we're back up and

347

00:14:50,629 --> 00:14:48,290

working with his science so that was a

348

00:14:53,059 --> 00:14:50,639

good example of how we can work together

349

00:14:55,369 --> 00:14:53,069

as a team with the ground s6 little pump

350

00:14:59,689 --> 00:14:55,379

that occurred during the flight none of

351

00:15:01,759 --> 00:14:59,699

my jobs on sts 94 is earth observations

352

00:15:04,999 --> 00:15:01,769

we have an extensive earth observation

353

00:15:07,420 --> 00:15:05,009

program and it has been ongoing since

354

00:15:10,489 --> 00:15:07,430

the beginning of the shuttle program