



1
00:00:08,230 --> 00:00:06,230
good morning and welcome back to nasa's

2
00:00:10,070 --> 00:00:08,240
johnson space center for today's mission

3
00:00:11,830 --> 00:00:10,080
status briefing this is flight day 9 of

4
00:00:13,589 --> 00:00:11,840
the sts-134

5
00:00:16,070 --> 00:00:13,599
mission to the international space

6
00:00:19,109 --> 00:00:16,080
station we'll talk about the activities

7
00:00:20,790 --> 00:00:19,119
onboard the complex earlier today that

8
00:00:22,470 --> 00:00:20,800
went on and also look ahead at the

9
00:00:24,790 --> 00:00:22,480
mission's third spacewalk coming up

10
00:00:26,470 --> 00:00:24,800
overnight so to do that we have the lead

11
00:00:29,029 --> 00:00:26,480
space station flight director derek

12
00:00:30,710 --> 00:00:29,039
hossman and the lead spacewalk officer

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

allison bollinger

14

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

so we'll start out with comments and

15

00:00:36,310 --> 00:00:34,000

then take questions derek okay thanks

16

00:00:39,190 --> 00:00:36,320

kylie good morning everybody well after

17

00:00:39,990 --> 00:00:39,200

a relatively quiet day yesterday

18

00:00:44,069 --> 00:00:40,000

the

19

00:00:46,470 --> 00:00:44,079

crew member ron garan guerin

20

00:00:48,150 --> 00:00:46,480

got back to work today

21

00:00:49,350 --> 00:00:48,160

as you may recall we discussed yesterday

22

00:00:51,270 --> 00:00:49,360

ron garan has been on the shuttle

23

00:00:52,950 --> 00:00:51,280

schedule all along so he woke up with a

24

00:00:55,430 --> 00:00:52,960

shuttle crew today

25

00:00:56,470 --> 00:00:55,440

now that the 25s crew is safely on the

26

00:00:58,470 --> 00:00:56,480

ground

27

00:01:00,709 --> 00:00:58,480

the remaining uh two russian crew

28

00:01:02,470 --> 00:01:00,719

members who are of course ron garan's uh

29

00:01:05,030 --> 00:01:02,480

expedition crewmates

30

00:01:06,630 --> 00:01:05,040

uh are in for a long sleep uh they were

31

00:01:07,750 --> 00:01:06,640

asleep all day while i was on console

32

00:01:09,429 --> 00:01:07,760

they're gonna sleep through the night

33

00:01:11,830 --> 00:01:09,439

and then when they wake up tomorrow

34

00:01:14,070 --> 00:01:11,840

they'll be back on on the uh shuttle

35

00:01:16,149 --> 00:01:14,080

crew schedule so starting tomorrow we

36

00:01:18,550 --> 00:01:16,159

have a normal sleep shift we'll be which

37

00:01:20,950 --> 00:01:18,560

will be a nice thing to have back

38

00:01:23,429 --> 00:01:20,960

um as i mentioned the the shuttle crew

39

00:01:26,789 --> 00:01:23,439

stayed busy on the space station today

40

00:01:29,270 --> 00:01:26,799

um as i'm sure most of you know uh greg

41

00:01:30,710 --> 00:01:29,280

shamatoff and mike fink are both veteran

42

00:01:33,670 --> 00:01:30,720

international space station long

43

00:01:35,350 --> 00:01:33,680

duration crew members so we leveraged on

44

00:01:37,270 --> 00:01:35,360

their experience onboard the station and

45

00:01:39,270 --> 00:01:37,280

put them to work today

46

00:01:41,109 --> 00:01:39,280

one of the one of the critical station

47

00:01:42,870 --> 00:01:41,119

maintenance tasks that we got at least

48

00:01:45,429 --> 00:01:42,880

started today was

49

00:01:46,950 --> 00:01:45,439

repair work on the node 3 carbon dioxide

50

00:01:49,190 --> 00:01:46,960

removal assembly

51
00:01:51,670 --> 00:01:49,200
these carbon dioxide removal assemblies

52
00:01:53,830 --> 00:01:51,680
or cdrs as we call them have two

53
00:01:56,389 --> 00:01:53,840
desiccant beds that actually do the

54
00:01:59,190 --> 00:01:56,399
removal of the carbon dioxide one of the

55
00:02:00,550 --> 00:01:59,200
two beds in this note 3 cedric is beyond

56
00:02:02,789 --> 00:02:00,560
its useful life

57
00:02:05,429 --> 00:02:02,799
so we brought up a new replacement bed

58
00:02:08,389 --> 00:02:05,439
or replacement cartridge on on uf6 on

59
00:02:09,510 --> 00:02:08,399
this flight and what the crew did today

60
00:02:11,510 --> 00:02:09,520
um

61
00:02:14,070 --> 00:02:11,520
spanky taz and ron working together

62
00:02:16,229 --> 00:02:14,080
taking turns was to remove the actual

63
00:02:18,229 --> 00:02:16,239

carbon dioxide removal assembly unit

64

00:02:20,710 --> 00:02:18,239

from its from the rack where it resides

65

00:02:22,390 --> 00:02:20,720

in node three they took it to the to the

66

00:02:23,670 --> 00:02:22,400

jpm area

67

00:02:24,949 --> 00:02:23,680

of the gym

68

00:02:26,550 --> 00:02:24,959

they tied it down to a maintenance

69

00:02:28,550 --> 00:02:26,560

workstation and then

70

00:02:30,390 --> 00:02:28,560

after eva 3 two days from now they're

71

00:02:31,750 --> 00:02:30,400

actually going to pull this desk in bed

72

00:02:32,949 --> 00:02:31,760

out of the carbon dioxide removal

73

00:02:34,390 --> 00:02:32,959

assembly and then replace it with the

74

00:02:36,869 --> 00:02:34,400

new bed and then we're going to bring

75

00:02:38,949 --> 00:02:36,879

that failed bed home so uh that's

76

00:02:40,710 --> 00:02:38,959

important work to get us back uh to

77

00:02:42,470 --> 00:02:40,720

normal redundancy of course we have a

78

00:02:45,110 --> 00:02:42,480

second seizure in the lab so we're using

79

00:02:47,110 --> 00:02:45,120

that labsidra in addition to the uh the

80

00:02:49,990 --> 00:02:47,120

bosduke unit in the russian segment to

81

00:02:51,670 --> 00:02:50,000

do carbon dioxide removal assembly but

82

00:02:53,750 --> 00:02:51,680

after this mission we'll be back to

83

00:02:55,990 --> 00:02:53,760

fully redundant carbon dioxide scrubbing

84

00:02:57,270 --> 00:02:56,000

capability on the u.s segment

85

00:02:58,790 --> 00:02:57,280

the other piece of maintenance work that

86

00:03:01,990 --> 00:02:58,800

we did today was on the oxygen

87

00:03:03,270 --> 00:03:02,000

generation system uh again some of you

88

00:03:04,869 --> 00:03:03,280

who have been involved in the past

89

00:03:06,790 --> 00:03:04,879

missions and and keeping track of what's

90

00:03:08,070 --> 00:03:06,800

going on in the station know that um

91

00:03:10,309 --> 00:03:08,080

we're having some challenges with

92

00:03:12,949 --> 00:03:10,319

contamination in the oxygen generation

93

00:03:14,790 --> 00:03:12,959

system and we flew at

94

00:03:16,949 --> 00:03:14,800

what we call a remediation cartridge

95

00:03:19,190 --> 00:03:16,959

it's basically a filter that is plumbed

96

00:03:21,509 --> 00:03:19,200

into the water line associated with the

97

00:03:23,509 --> 00:03:21,519

oxygen generation system

98

00:03:27,270 --> 00:03:23,519

the crew today uh

99

00:03:30,390 --> 00:03:27,280

bo again are our go-to station veterans

100

00:03:33,750 --> 00:03:30,400

spanky and taz in concert with ron garan

101
00:03:35,990 --> 00:03:33,760
worked on the oxygen generation system

102
00:03:37,750 --> 00:03:36,000
to install this cartridge and the

103
00:03:39,910 --> 00:03:37,760
associated plumbing

104
00:03:41,589 --> 00:03:39,920
we're going to wait for the eva to eva 3

105
00:03:44,149 --> 00:03:41,599
to be behind us and then we're going to

106
00:03:45,670 --> 00:03:44,159
activate the oxygen generation system

107
00:03:47,670 --> 00:03:45,680
have the crew check for leaks and then

108
00:03:50,550 --> 00:03:47,680
start running the water loops through

109
00:03:51,910 --> 00:03:50,560
this remediation cartridge or filter

110
00:03:54,390 --> 00:03:51,920
in order to see what we can do about

111
00:03:55,990 --> 00:03:54,400
that contamination

112
00:03:58,390 --> 00:03:56,000
in the briefing

113
00:03:59,750 --> 00:03:58,400

last night from dana weigel she

114

00:04:01,670 --> 00:03:59,760

mentioned briefly that we had an

115

00:04:04,550 --> 00:04:01,680

electrical power system

116

00:04:05,509 --> 00:04:04,560

failure last night and uh basically we

117

00:04:07,589 --> 00:04:05,519

have

118

00:04:10,229 --> 00:04:07,599

banks of uh switches if you will or

119

00:04:13,030 --> 00:04:10,239

circuit breakers uh called remote power

120

00:04:14,949 --> 00:04:13,040

controller modules or rpcms one of those

121

00:04:17,349 --> 00:04:14,959

uh one of the individual switches in

122

00:04:19,670 --> 00:04:17,359

that banker switch is tripped and it

123

00:04:22,150 --> 00:04:19,680

removed power to a video switching

124

00:04:24,710 --> 00:04:22,160

device um and it's more than videos

125

00:04:26,390 --> 00:04:24,720

video and its payload data so once once

126
00:04:28,390 --> 00:04:26,400
this switch opened we were unable to

127
00:04:29,350 --> 00:04:28,400
downlink high definition video to the

128
00:04:31,990 --> 00:04:29,360
ground

129
00:04:33,510 --> 00:04:32,000
we were unable to downlink payload data

130
00:04:35,430 --> 00:04:33,520
the payloads continued to operate on

131
00:04:37,510 --> 00:04:35,440
station but

132
00:04:38,870 --> 00:04:37,520
the payload operations integration

133
00:04:40,950 --> 00:04:38,880
center and marshall

134
00:04:42,390 --> 00:04:40,960
space flight center in huntsville was

135
00:04:43,990 --> 00:04:42,400
not able to get the data from the

136
00:04:47,510 --> 00:04:44,000
payloads while this

137
00:04:49,110 --> 00:04:47,520
device was not powered so it was

138
00:04:50,390 --> 00:04:49,120

relatively important to us that we get

139

00:04:51,749 --> 00:04:50,400

it back quickly

140

00:04:53,670 --> 00:04:51,759

in addition to that payload data i

141

00:04:56,070 --> 00:04:53,680

should mention that it also affects our

142

00:04:57,990 --> 00:04:56,080

ability to uplink files to the station

143

00:04:59,909 --> 00:04:58,000

uplink procedures and messages and such

144

00:05:02,150 --> 00:04:59,919

that the crew needs during the day and

145

00:05:04,310 --> 00:05:02,160

also the ip phone which is of course the

146

00:05:06,390 --> 00:05:04,320

way the crew uses

147

00:05:08,070 --> 00:05:06,400

the the device that the crew uses to

148

00:05:10,469 --> 00:05:08,080

communicate with friends family on the

149

00:05:12,390 --> 00:05:10,479

ground so pretty significant impacts to

150

00:05:14,150 --> 00:05:12,400

day-to-day operations although

151
00:05:15,909 --> 00:05:14,160
we don't consider those systems critical

152
00:05:17,909 --> 00:05:15,919
they're certainly important in our

153
00:05:19,510 --> 00:05:17,919
day-to-day work

154
00:05:21,830 --> 00:05:19,520
overnight the team put together

155
00:05:23,830 --> 00:05:21,840
procedures needed to change out that

156
00:05:25,990 --> 00:05:23,840
rpcm or that that

157
00:05:28,230 --> 00:05:26,000
circuit breaker device and then

158
00:05:30,469 --> 00:05:28,240
at the beginning of the day today we got

159
00:05:32,950 --> 00:05:30,479
that rpcm switched out we powered on all

160
00:05:34,870 --> 00:05:32,960
all the components and now we're back to

161
00:05:36,629 --> 00:05:34,880
100 in terms of

162
00:05:39,189 --> 00:05:36,639
the video downlink and also the the

163
00:05:41,430 --> 00:05:39,199

payload data the ip phone file up link

164

00:05:43,029 --> 00:05:41,440

et cetera so another good relatively

165

00:05:44,950 --> 00:05:43,039

small and in the grand scheme of things

166

00:05:46,710 --> 00:05:44,960

but another good example of how the

167

00:05:49,110 --> 00:05:46,720

teams can react quickly to problems in

168

00:05:51,350 --> 00:05:49,120

real time

169

00:05:53,590 --> 00:05:51,360

and of course looking ahead we have eba

170

00:05:55,189 --> 00:05:53,600

3 in front of us tomorrow

171

00:05:57,430 --> 00:05:55,199

eva 3 will

172

00:05:59,990 --> 00:05:57,440

be in terms of the space walkers will be

173

00:06:02,870 --> 00:06:00,000

a repeat of eva2 with foosteel and fink

174

00:06:05,510 --> 00:06:02,880

going outside and shamataw running the

175

00:06:07,430 --> 00:06:05,520

show from inside and of course we'll be

176
00:06:09,670 --> 00:06:07,440
using the new pre-breathe protocol uh

177
00:06:11,029 --> 00:06:09,680
for this eva uh we're not going to do

178
00:06:12,870 --> 00:06:11,039
camp out we're going to use the uh

179
00:06:14,150 --> 00:06:12,880
institute light exercise protocol and

180
00:06:15,590 --> 00:06:14,160
for the timeline and for the new

181
00:06:17,350 --> 00:06:15,600
protocol i'll hand over to allison to

182
00:06:18,870 --> 00:06:17,360
talk about the details

183
00:06:20,390 --> 00:06:18,880
all right thank you derek

184
00:06:22,550 --> 00:06:20,400
all right i'll go ahead and get started

185
00:06:23,749 --> 00:06:22,560
with a brief summary of what eva 3 will

186
00:06:25,110 --> 00:06:23,759
look like since it's a little bit

187
00:06:27,029 --> 00:06:25,120
different from what we originally

188
00:06:29,270 --> 00:06:27,039

planned pre-flight we'll start out the

189

00:06:31,909 --> 00:06:29,280

day as derek mentioned with drew and

190

00:06:33,909 --> 00:06:31,919

spanky performing this eva it'll it'll

191

00:06:36,150 --> 00:06:33,919

start out looking very similar where our

192

00:06:38,309 --> 00:06:36,160

first major task is to install the power

193

00:06:40,870 --> 00:06:38,319

and data grapple fixture pdgf on the

194

00:06:42,710 --> 00:06:40,880

russian fgb segment so the two crew

195

00:06:45,749 --> 00:06:42,720

members will translate with some tool

196

00:06:47,189 --> 00:06:45,759

bags out to the port side of the fgb

197

00:06:49,270 --> 00:06:47,199

they will remove some multi-layer

198

00:06:51,189 --> 00:06:49,280

insulation and also caps

199

00:06:52,710 --> 00:06:51,199

that that open up the receptacles where

200

00:06:54,629 --> 00:06:52,720

the the power and data grapple fixture

201
00:06:55,909 --> 00:06:54,639
will be installed both crew members will

202
00:06:57,589 --> 00:06:55,919
then head back to the airlock and

203
00:06:59,909 --> 00:06:57,599
they'll retrieve the pdgf and its

204
00:07:01,510 --> 00:06:59,919
associated frame and its cabling then

205
00:07:03,430 --> 00:07:01,520
they'll work together to inch worm that

206
00:07:06,150 --> 00:07:03,440
grapple fixture back to its install

207
00:07:07,830 --> 00:07:06,160
location on the on the fgb

208
00:07:09,189 --> 00:07:07,840
once it's in position they'll soft dock

209
00:07:12,390 --> 00:07:09,199
it and then they'll tighten the three

210
00:07:13,670 --> 00:07:12,400
feet that hold the pdgf onto the fgb

211
00:07:15,589 --> 00:07:13,680
after they're complete with that they'll

212
00:07:18,150 --> 00:07:15,599
install a vsc or video signal

213
00:07:21,029 --> 00:07:18,160

conditioner which is used

214

00:07:22,950 --> 00:07:21,039

in combination with the pdgf to allow

215

00:07:24,550 --> 00:07:22,960

the pgf to be a future base for the

216

00:07:27,510 --> 00:07:24,560

ssrms

217

00:07:29,110 --> 00:07:27,520

once they install that vsc they'll route

218

00:07:30,550 --> 00:07:29,120

some cables to it

219

00:07:33,029 --> 00:07:30,560

and that that'll complete the work that

220

00:07:35,189 --> 00:07:33,039

we will perform on on the pdgf for that

221

00:07:36,790 --> 00:07:35,199

day we'll then start working on re

222

00:07:38,469 --> 00:07:36,800

rewiring some of the power that's

223

00:07:40,150 --> 00:07:38,479

heading to the fgb these are the

224

00:07:42,550 --> 00:07:40,160

y-jumpers as we call them we have a port

225

00:07:44,070 --> 00:07:42,560

and a starboard set we'll first start

226

00:07:46,469 --> 00:07:44,080

out installing the port side of those

227

00:07:48,469 --> 00:07:46,479

jumpers the two spanky will make his way

228

00:07:50,230 --> 00:07:48,479

forward on node one and he'll demate two

229

00:07:51,909 --> 00:07:50,240

connectors on node one while drew's

230

00:07:54,469 --> 00:07:51,919

standing by once those two connectors

231

00:07:56,710 --> 00:07:54,479

are demated drew will then uh d made a

232

00:07:58,390 --> 00:07:56,720

connection at the pma fgb interface and

233

00:08:00,550 --> 00:07:58,400

he'll hook up this new y-jumper and then

234

00:08:02,390 --> 00:08:00,560

give spanky a go to hook up his ends of

235

00:08:04,309 --> 00:08:02,400

the y-jumper once we're complete with

236

00:08:05,830 --> 00:08:04,319

the port side y-jumper installed the

237

00:08:07,270 --> 00:08:05,840

ground will do some commanding to check

238

00:08:09,110 --> 00:08:07,280

out the new connections that we just

239

00:08:11,350 --> 00:08:09,120

made as well as put the inhibits in

240

00:08:13,270 --> 00:08:11,360

place for the starboard side

241

00:08:15,990 --> 00:08:13,280

on the original eva 3 our plan at this

242

00:08:18,710 --> 00:08:16,000

time was to install the 1553 data cable

243

00:08:19,990 --> 00:08:18,720

that runs from node 3 to the pdgf but

244

00:08:22,550 --> 00:08:20,000

since we weren't able to complete all

245

00:08:24,070 --> 00:08:22,560

the tasks on eva 1 now during this time

246

00:08:25,510 --> 00:08:24,080

that the ground is performing the

247

00:08:27,670 --> 00:08:25,520

checkouts and putting the inhibits in

248

00:08:29,430 --> 00:08:27,680

place for the second y-jumper drew and

249

00:08:31,749 --> 00:08:29,440

spanky will head back to the lab to

250

00:08:33,589 --> 00:08:31,759

finish up that lab ewc or external

251
00:08:36,310 --> 00:08:33,599
wireless communications task that we did

252
00:08:38,149 --> 00:08:36,320
not complete on eva one all the the

253
00:08:39,750 --> 00:08:38,159
cable that we need to install is out

254
00:08:41,350 --> 00:08:39,760
there the handrails with the antennas

255
00:08:42,709 --> 00:08:41,360
are already installed the two crew

256
00:08:44,870 --> 00:08:42,719
members will just need to work together

257
00:08:47,269 --> 00:08:44,880
to release a micrometer or debris or

258
00:08:48,790 --> 00:08:47,279
mmod shield that's covering the

259
00:08:51,910 --> 00:08:48,800
connectors that we need to get to on the

260
00:08:53,750 --> 00:08:51,920
lab they'll open up that uh that mmod

261
00:08:56,230 --> 00:08:53,760
shield then they'll need to put inhibit

262
00:08:58,070 --> 00:08:56,240
in place which inhibits iss uhf

263
00:08:59,350 --> 00:08:58,080

communications upon which time will be

264

00:09:01,110 --> 00:08:59,360

relying on

265

00:09:03,350 --> 00:09:01,120

shuttle assets in order to talk to the

266

00:09:05,590 --> 00:09:03,360

ev crew we'll demate two existing

267

00:09:07,670 --> 00:09:05,600

connectors that are part of the uhf

268

00:09:10,230 --> 00:09:07,680

system as well as part of the existing

269

00:09:13,030 --> 00:09:10,240

external eos system once we demate those

270

00:09:14,949 --> 00:09:13,040

we'll install the new ewc antenna close

271

00:09:17,350 --> 00:09:14,959

up the mmod shield and then work on

272

00:09:19,430 --> 00:09:17,360

coiling the old e-with cable and

273

00:09:20,949 --> 00:09:19,440

bringing that inside once we're complete

274

00:09:22,310 --> 00:09:20,959

with that task and once the ground is

275

00:09:24,310 --> 00:09:22,320

complete with putting the inhibits in

276

00:09:25,670 --> 00:09:24,320

place for the starboard y jumper

277

00:09:29,030 --> 00:09:25,680

installed the crew members will head

278

00:09:30,389 --> 00:09:29,040

back back to the fgb node one pma area

279

00:09:32,070 --> 00:09:30,399

then they'll work on performing the

280

00:09:34,150 --> 00:09:32,080

starboard side of those jumpers with

281

00:09:36,070 --> 00:09:34,160

spanky demating two connectors on node

282

00:09:38,630 --> 00:09:36,080

one giving drew the go to make his

283

00:09:39,750 --> 00:09:38,640

connections at the pma fgb interface and

284

00:09:41,990 --> 00:09:39,760

then they'll work to get that new

285

00:09:43,910 --> 00:09:42,000

y-jumper cable installed

286

00:09:45,590 --> 00:09:43,920

once we're complete with the starboard

287

00:09:47,350 --> 00:09:45,600

side of the y-jumper we'll work on

288

00:09:49,110 --> 00:09:47,360

cleaning up the work site we'll ensure

289

00:09:51,190 --> 00:09:49,120

that we get all the tool bags back near

290

00:09:53,269 --> 00:09:51,200

the airlock and then another change to

291

00:09:55,269 --> 00:09:53,279

the end of this eva we had nominally

292

00:09:56,949 --> 00:09:55,279

planned on heading out to elc 3 on the

293

00:09:59,670 --> 00:09:56,959

port side of the truss to take still

294

00:10:02,230 --> 00:09:59,680

photos of stph3 which is an experiment

295

00:10:03,509 --> 00:10:02,240

on the newly installed elc3 carrier but

296

00:10:05,750 --> 00:10:03,519

actually we're going to change that up

297

00:10:07,350 --> 00:10:05,760

and instead of using the eva digital

298

00:10:09,990 --> 00:10:07,360

still camera we'll actually be using the

299

00:10:12,150 --> 00:10:10,000

eva ir camera infrared camera to take

300

00:10:13,509 --> 00:10:12,160

some infrared imagery of the vader

301
00:10:16,150 --> 00:10:13,519
experiment which is a part of the

302
00:10:18,150 --> 00:10:16,160
experiment on the on the overall stp h3

303
00:10:20,230 --> 00:10:18,160
complement drew will be using this ir

304
00:10:21,910 --> 00:10:20,240
camera to get some imagery that the

305
00:10:23,670 --> 00:10:21,920
ground teams will use to help regain

306
00:10:25,509 --> 00:10:23,680
science on their experiment and

307
00:10:27,030 --> 00:10:25,519
meanwhile spanky will be installing a

308
00:10:29,269 --> 00:10:27,040
multi-layer insulation cover on the

309
00:10:30,949 --> 00:10:29,279
grapple fixture on the high pressure gas

310
00:10:33,030 --> 00:10:30,959
tank which we also launched on that

311
00:10:34,470 --> 00:10:33,040
spare elc 3.

312
00:10:36,949 --> 00:10:34,480
so once those crew members are complete

313
00:10:39,430 --> 00:10:36,959

with the tasks on elc 3 we'll head back

314

00:10:42,230 --> 00:10:39,440

to the airlock and and call today call

315

00:10:43,910 --> 00:10:42,240

it a day and we'll still have with us

316

00:10:46,230 --> 00:10:43,920

at the airlock in case we get a chance

317

00:10:48,310 --> 00:10:46,240

we will have that 1553 data cable which

318

00:10:49,030 --> 00:10:48,320

we weren't able to install we will have

319

00:10:53,269 --> 00:10:49,040

that

320

00:10:56,310 --> 00:10:53,279

have about 45 minutes left at the end of

321

00:10:58,069 --> 00:10:56,320

the eva we might get a chance to install

322

00:11:01,190 --> 00:10:58,079

that cable if not we could also take

323

00:11:02,470 --> 00:11:01,200

still photos of the stph3 task which we

324

00:11:05,430 --> 00:11:02,480

had deferred

325

00:11:08,470 --> 00:11:05,440

as well as possibly to stow some tools

326

00:11:10,550 --> 00:11:08,480

in the in the in the airlock toolbox so

327

00:11:12,150 --> 00:11:10,560

with that that summarizes eva3 i'll go

328

00:11:14,949 --> 00:11:12,160

ahead and talk a little bit more about

329

00:11:16,630 --> 00:11:14,959

aisle or the light exercise pre-breathe

330

00:11:18,550 --> 00:11:16,640

protocol that we'll be trying out for

331

00:11:20,389 --> 00:11:18,560

the first time tomorrow just to give

332

00:11:21,990 --> 00:11:20,399

everyone a refresher on the camp out

333

00:11:24,550 --> 00:11:22,000

pre-breathe protocol which we've used

334

00:11:26,230 --> 00:11:24,560

about 70 times on the space station so

335

00:11:28,069 --> 00:11:26,240

this protocol starts the night before

336

00:11:30,230 --> 00:11:28,079

the eva where the crew members don

337

00:11:32,230 --> 00:11:30,240

oxygen masks and they're on those masks

338

00:11:35,190 --> 00:11:32,240

for about 60 minutes at which time we

339

00:11:37,910 --> 00:11:35,200

depress the airlock down to 10.2 psi

340

00:11:39,670 --> 00:11:37,920

then the crew members remain at 10.2 psi

341

00:11:41,269 --> 00:11:39,680

for 8 hours and 40 minutes they're

342

00:11:43,190 --> 00:11:41,279

isolated in the airlock by themselves

343

00:11:45,590 --> 00:11:43,200

overnight they wake up in the morning

344

00:11:47,590 --> 00:11:45,600

they don those oxygen masks again this

345

00:11:49,670 --> 00:11:47,600

time for about 70 minutes during that

346

00:11:52,629 --> 00:11:49,680

time we repress the airlock back up to

347

00:11:54,949 --> 00:11:52,639

14.7 psi the crew members while still on

348

00:11:56,470 --> 00:11:54,959

masks are able to head out and maybe

349

00:11:57,829 --> 00:11:56,480

grab some food that they can eat later

350

00:11:59,670 --> 00:11:57,839

on and also take care of personal

351
00:12:02,230 --> 00:11:59,680
hygiene items then they'll head back to

352
00:12:04,870 --> 00:12:02,240
the airlock we depress back down to 10.2

353
00:12:07,030 --> 00:12:04,880
psi they doff the oxygen masks then they

354
00:12:09,190 --> 00:12:07,040
work on donning their suits once their

355
00:12:10,949 --> 00:12:09,200
suits are donned at 10.2 psi and they're

356
00:12:12,949 --> 00:12:10,959
all buttoned up and pressurized we start

357
00:12:16,550 --> 00:12:12,959
purging the suit as we repress back up

358
00:12:18,710 --> 00:12:16,560
to 14.7 psi and then we spend 50 minutes

359
00:12:20,550 --> 00:12:18,720
in the suit doing a resting in-suit

360
00:12:22,470 --> 00:12:20,560
pre-breathe before we head out the door

361
00:12:24,150 --> 00:12:22,480
to do the eva

362
00:12:26,550 --> 00:12:24,160
for the in-suit light exercise pre-booth

363
00:12:28,629 --> 00:12:26,560

protocol however we start the day of the

364

00:12:29,910 --> 00:12:28,639

eva the morning looks fairly similar to

365

00:12:31,269 --> 00:12:29,920

the campout

366

00:12:32,870 --> 00:12:31,279

protocol with the exception that the

367

00:12:34,470 --> 00:12:32,880

crew members are able to wake up have a

368

00:12:36,150 --> 00:12:34,480

normal post sleep where they're not

369

00:12:37,509 --> 00:12:36,160

wearing oxygen masks they can go ahead

370

00:12:39,350 --> 00:12:37,519

and grab breakfast and take care of

371

00:12:41,030 --> 00:12:39,360

personal hygiene items when they're

372

00:12:43,110 --> 00:12:41,040

ready and per the timeline they'll go

373

00:12:45,509 --> 00:12:43,120

ahead and don their oxygen masks this

374

00:12:47,509 --> 00:12:45,519

time they're on the mask for 60 minutes

375

00:12:50,310 --> 00:12:47,519

during that time similar to campout we

376

00:12:51,990 --> 00:12:50,320

depress the airlock down to 10.2 psi and

377

00:12:53,590 --> 00:12:52,000

this will be the two ev crew members as

378

00:12:54,710 --> 00:12:53,600

well as three additional ivy crew

379

00:12:57,350 --> 00:12:54,720

members who will help with the suit

380

00:12:58,629 --> 00:12:57,360

donning while they're at 10.2 psi

381

00:13:01,110 --> 00:12:58,639

they'll don their suits with the

382

00:13:02,949 --> 00:13:01,120

assistance of those other crew members

383

00:13:04,550 --> 00:13:02,959

once complete with the donning

384

00:13:05,829 --> 00:13:04,560

just like campout we'll go ahead and

385

00:13:08,230 --> 00:13:05,839

once the suits are buttoned up and

386

00:13:11,110 --> 00:13:08,240

pressurized we'll start the emu purge

387

00:13:12,629 --> 00:13:11,120

and we'll repress back up to 14.7 that's

388

00:13:15,990 --> 00:13:12,639

at this point in time once we're back up

389

00:13:18,230 --> 00:13:16,000

at 14.7 where we'll start 50 minutes of

390

00:13:23,350 --> 00:13:18,240

the light exercise

391

00:13:25,750 --> 00:13:23,360

judge this it's based on a rate of

392

00:13:28,470 --> 00:13:25,760

perceived exertion or rpe scale which

393

00:13:29,990 --> 00:13:28,480

ranges from six to twenty six is you're

394

00:13:31,670 --> 00:13:30,000

you're sitting there not doing anything

395

00:13:34,310 --> 00:13:31,680

and we're asking crew members to target

396

00:13:36,470 --> 00:13:34,320

an rpe of seven so this is equivalent to

397

00:13:38,870 --> 00:13:36,480

walking a mile in about 70 minutes so

398

00:13:41,590 --> 00:13:38,880

it's a very light exercise so with that

399

00:13:43,670 --> 00:13:41,600

if we could go ahead and roll that video

400

00:13:45,430 --> 00:13:43,680

this video that we're going to show is

401
00:13:47,030 --> 00:13:45,440
the crew members receiving the training

402
00:13:49,350 --> 00:13:47,040
at the neutral buoyancy lab you can see

403
00:13:51,269 --> 00:13:49,360
spanky on the left and drew on the right

404
00:13:53,030 --> 00:13:51,279
during this 50 minutes of exercise

405
00:13:55,030 --> 00:13:53,040
they'll be mark will be running the show

406
00:13:56,790 --> 00:13:55,040
they'll be exercising for four minutes

407
00:13:58,310 --> 00:13:56,800
and then resting for a minute and then

408
00:13:59,750 --> 00:13:58,320
exercising for another four minutes and

409
00:14:00,710 --> 00:13:59,760
they'll repeat this process for 50

410
00:14:02,150 --> 00:14:00,720
minutes

411
00:14:03,670 --> 00:14:02,160
this is what we call the slow motion

412
00:14:05,189 --> 00:14:03,680
hokey pokey

413
00:14:07,110 --> 00:14:05,199

so the crew members will be we'll be

414

00:14:09,509 --> 00:14:07,120

doing this for 50 minutes once they're

415

00:14:12,470 --> 00:14:09,519

complete with that exercise they'll then

416

00:14:15,269 --> 00:14:12,480

do a 50-minute in-suit resting

417

00:14:16,470 --> 00:14:15,279

pre-breathe similar to the campout

418

00:14:18,230 --> 00:14:16,480

see spank you threw in a little arm

419

00:14:19,990 --> 00:14:18,240

motions there at the end

420

00:14:21,750 --> 00:14:20,000

so after the 50 minutes of exercise

421

00:14:23,269 --> 00:14:21,760

we'll do 50 minutes of in-suit resting

422

00:14:24,710 --> 00:14:23,279

pre-breathe and then we'll head out the

423

00:14:26,389 --> 00:14:24,720

door we'll depress the airlock and head

424

00:14:28,230 --> 00:14:26,399

at the door we're doing things slightly

425

00:14:30,069 --> 00:14:28,240

differently tomorrow though for eva 3

426

00:14:31,750 --> 00:14:30,079

since this is the first use of this

427

00:14:33,990 --> 00:14:31,760

protocol we're actually going to divide

428

00:14:35,430 --> 00:14:34,000

up the resting pre-breath into two

429

00:14:36,150 --> 00:14:35,440

different portions we'll start out we'll

430

00:14:41,350 --> 00:14:36,160

do

431

00:14:43,110 --> 00:14:41,360

10.2 psi and we repress back up to 14.7

432

00:14:45,269 --> 00:14:43,120

they'll do just a 20 minutes of a

433

00:14:47,110 --> 00:14:45,279

resting pre-breathe and that will allow

434

00:14:49,030 --> 00:14:47,120

us to get some data hopefully get some

435

00:14:50,870 --> 00:14:49,040

data on the ground to see how the oxygen

436

00:14:52,230 --> 00:14:50,880

tanks respond

437

00:14:54,230 --> 00:14:52,240

and this is just nice to have data that

438

00:14:55,990 --> 00:14:54,240

the engineers are interested in in

439

00:14:57,750 --> 00:14:56,000

getting so we'll do 20 minutes of

440

00:15:00,310 --> 00:14:57,760

resting followed by the 50 minutes of

441

00:15:01,990 --> 00:15:00,320

exercise followed by the 30 minutes of

442

00:15:03,189 --> 00:15:02,000

resting pre-breathe before we head at

443

00:15:05,430 --> 00:15:03,199

the door so that'll look slightly

444

00:15:07,030 --> 00:15:05,440

different than a future evas

445

00:15:08,790 --> 00:15:07,040

so just a few things to talk about the

446

00:15:10,470 --> 00:15:08,800

benefits of using this pre-breathe

447

00:15:13,430 --> 00:15:10,480

protocol it's estimated that we're going

448

00:15:15,509 --> 00:15:13,440

to use less oxygen during this protocol

449

00:15:17,350 --> 00:15:15,519

so post shuttle retirement this is this

450

00:15:19,110 --> 00:15:17,360

will be a big deal for station the crew

451
00:15:21,110 --> 00:15:19,120
members also spend less time on the

452
00:15:22,710 --> 00:15:21,120
oxygen masks which for some crew members

453
00:15:24,550 --> 00:15:22,720
can be uncomfortable they're not

454
00:15:26,870 --> 00:15:24,560
isolated in the airlock overnight which

455
00:15:29,030 --> 00:15:26,880
is which is also a benefit though the

456
00:15:30,550 --> 00:15:29,040
one drawback to this protocol though is

457
00:15:31,829 --> 00:15:30,560
that it does take longer in the morning

458
00:15:34,069 --> 00:15:31,839
to get out the door than it does with

459
00:15:35,749 --> 00:15:34,079
the camp up protocol so the egress we

460
00:15:37,910 --> 00:15:35,759
estimate to be about 30 minutes later

461
00:15:39,350 --> 00:15:37,920
than if we had done camp out protocol in

462
00:15:42,069 --> 00:15:39,360
this eva

463
00:15:43,749 --> 00:15:42,079

so with that that's uh my summary of of

464

00:15:45,990 --> 00:15:43,759

aisle so we can go ahead and take

465

00:15:47,509 --> 00:15:46,000

questions okay we'll start here in the

466

00:15:50,870 --> 00:15:47,519

johnson space center do you have a

467

00:15:54,710 --> 00:15:53,110

phillip sloss with

468

00:15:58,389 --> 00:15:54,720

uh nasaspaceflight.com um

469

00:16:01,110 --> 00:15:58,399

on the rpc the rpc trips yesterday um

470

00:16:04,470 --> 00:16:01,120

is this something that's common uh

471

00:16:06,710 --> 00:16:04,480

and and also where where is this rpcm in

472

00:16:09,110 --> 00:16:06,720

the in the station thanks

473

00:16:10,389 --> 00:16:09,120

yeah it's uh it's related to a generic

474

00:16:12,389 --> 00:16:10,399

problem

475

00:16:14,710 --> 00:16:12,399

that we know exists in the firmware that

476

00:16:17,509 --> 00:16:14,720

controls this bank of switches

477

00:16:19,590 --> 00:16:17,519

um and the way it manifests itself is

478

00:16:22,069 --> 00:16:19,600

it's kind of a spontaneous trip without

479

00:16:23,670 --> 00:16:22,079

any kind of associated current signature

480

00:16:25,509 --> 00:16:23,680

it's essentially just a bit flip in the

481

00:16:26,790 --> 00:16:25,519

firmware that results in one of the

482

00:16:28,870 --> 00:16:26,800

switches open

483

00:16:30,310 --> 00:16:28,880

opening and the way we recognize is that

484

00:16:31,990 --> 00:16:30,320

we look we look at data and see no

485

00:16:33,990 --> 00:16:32,000

current spike so there's no

486

00:16:37,269 --> 00:16:34,000

signature indication that would that

487

00:16:39,269 --> 00:16:37,279

would point to a real trip

488

00:16:41,749 --> 00:16:39,279

over time we've been changing out these

489

00:16:44,870 --> 00:16:41,759

older style rpcms with the known issue

490

00:16:45,829 --> 00:16:44,880

with the firmware with updated rpcms

491

00:16:49,189 --> 00:16:45,839

with

492

00:16:51,829 --> 00:16:49,199

this problem addressed this

493

00:16:53,670 --> 00:16:51,839

this particular rpcm i believe is in the

494

00:16:55,590 --> 00:16:53,680

lab so it you know it's obviously an iv

495

00:17:04,150 --> 00:16:55,600

a change on it and i'm pretty certain it

496

00:17:08,069 --> 00:17:06,150

denise ciao with space.com um the

497

00:17:09,990 --> 00:17:08,079

changes that you made to the eva 3

498

00:17:11,510 --> 00:17:10,000

timeline were those mainly get a head

499

00:17:13,350 --> 00:17:11,520

test or were those going to be added to

500

00:17:15,829 --> 00:17:13,360

the the fourth dva

501
00:17:17,829 --> 00:17:15,839
they get ahead tasks 3v3 yeah the tasks

502
00:17:21,110 --> 00:17:17,839
that we deferred from eva 3 the

503
00:17:23,270 --> 00:17:21,120
installation of the 1553 data cable

504
00:17:24,870 --> 00:17:23,280
that will possibly remain a get ahead

505
00:17:26,789 --> 00:17:24,880
for eva 4 but there currently are not

506
00:17:28,549 --> 00:17:26,799
any plans to change what's nominally

507
00:17:34,230 --> 00:17:28,559
planned for eva for right now so that

508
00:17:38,789 --> 00:17:36,710
um gina cincer abc news i had a

509
00:17:41,270 --> 00:17:38,799
question when someone in new york asked

510
00:17:43,350 --> 00:17:41,280
me to ask this for radio which is just

511
00:17:44,630 --> 00:17:43,360
what makes a space walk so hard we talk

512
00:17:45,750 --> 00:17:44,640
about eight hours and they say well

513
00:17:47,669 --> 00:17:45,760

they're out there floating around in

514

00:17:49,590 --> 00:17:47,679

these puffy marshmallow suits why is

515

00:17:51,270 --> 00:17:49,600

that so difficult would you mind giving

516

00:17:53,270 --> 00:17:51,280

us kind of a definition for our radio

517

00:17:54,950 --> 00:17:53,280

audience please about why why it's

518

00:17:57,029 --> 00:17:54,960

difficult oh wow

519

00:17:58,390 --> 00:17:57,039

well i guess so while you are floating

520

00:18:00,710 --> 00:17:58,400

out there in space you are in a

521

00:18:02,549 --> 00:18:00,720

pressurized suit so as you're bending

522

00:18:04,470 --> 00:18:02,559

your fingers you know i think the the

523

00:18:05,990 --> 00:18:04,480

main fatigue issue that crew members

524

00:18:07,270 --> 00:18:06,000

talk about is their hands getting tired

525

00:18:09,110 --> 00:18:07,280

you know your legs aren't getting tired

526
00:18:10,549 --> 00:18:09,120
because you're not walking around your

527
00:18:12,390 --> 00:18:10,559
arms aren't getting too tired but it's

528
00:18:15,190 --> 00:18:12,400
mainly your hair your hands because

529
00:18:16,549 --> 00:18:15,200
you're pressurized to 4.3 psi so you're

530
00:18:18,870 --> 00:18:16,559
actually as you're bending your fingers

531
00:18:20,549 --> 00:18:18,880
you know your natural suit glove wants

532
00:18:22,150 --> 00:18:20,559
to just kind of be outstretched so as

533
00:18:23,590 --> 00:18:22,160
you're bending your fingers to grasp

534
00:18:25,590 --> 00:18:23,600
onto handrails or to hang onto your

535
00:18:27,270 --> 00:18:25,600
pistol grip tool or to perform other

536
00:18:30,070 --> 00:18:27,280
activities you're having to fight

537
00:18:31,590 --> 00:18:30,080
against the pressurization of that suit

538
00:18:33,190 --> 00:18:31,600

so i think that's kind of what what

539

00:18:35,270 --> 00:18:33,200

causes crew members to get most tired

540

00:18:37,510 --> 00:18:35,280

after the after the evas is is the

541

00:18:42,390 --> 00:18:37,520

constant hand fatigue of having to fight

542

00:18:47,270 --> 00:18:45,029

uh rob perlman with collectspace.com um

543

00:18:49,190 --> 00:18:47,280

with regards to the 1553 cable can you

544

00:18:51,669 --> 00:18:49,200

just explain what that does and if you

545

00:18:53,029 --> 00:18:51,679

don't get to it um how important it is

546

00:18:55,270 --> 00:18:53,039

for the station

547

00:18:56,950 --> 00:18:55,280

do you want to field that sure it's a

548

00:18:58,789 --> 00:18:56,960

it's essentially the data connection

549

00:18:59,830 --> 00:18:58,799

between the the power data grapple

550

00:19:02,549 --> 00:18:59,840

fixture

551
00:19:03,590 --> 00:19:02,559
and computers in in the u.s segment that

552
00:19:05,990 --> 00:19:03,600
allow

553
00:19:07,190 --> 00:19:06,000
the robotics officer in the mcc or or

554
00:19:09,990 --> 00:19:07,200
the crew

555
00:19:12,390 --> 00:19:10,000
to grapple that pdgf

556
00:19:13,350 --> 00:19:12,400
on the fgb and then use it as a base for

557
00:19:16,549 --> 00:19:13,360
the arm

558
00:19:18,950 --> 00:19:16,559
so without that 1553 data connection we

559
00:19:20,870 --> 00:19:18,960
can't use that fgb grapple fixture as a

560
00:19:24,230 --> 00:19:20,880
full-blown base i.e

561
00:19:26,710 --> 00:19:24,240
from a from a pdgf on the ux us segment

562
00:19:28,549 --> 00:19:26,720
grapple that fgb pdgf and then ungrapple

563
00:19:31,270 --> 00:19:28,559

on the us side and have a fully

564

00:19:33,909 --> 00:19:31,280

functional arm on that pdgf so before we

565

00:19:35,510 --> 00:19:33,919

use that new grapple fixture as a base

566

00:19:37,029 --> 00:19:35,520

for the robotic arm

567

00:19:39,669 --> 00:19:37,039

there will need to be a subsequent

568

00:19:41,990 --> 00:19:39,679

spacewalk to connect that 1553 data

569

00:19:43,669 --> 00:19:42,000

cable

570

00:19:45,430 --> 00:19:43,679

any other questions here

571

00:19:47,350 --> 00:19:45,440

okay we'll go to the fun bridge marcia

572

00:19:48,470 --> 00:19:47,360

dunn

573

00:19:51,990 --> 00:19:48,480

good morning

574

00:19:53,750 --> 00:19:52,000

i'm wondering um

575

00:19:55,909 --> 00:19:53,760

pictures of the

576

00:19:58,310 --> 00:19:55,919

space station shuttle that

577

00:19:59,430 --> 00:19:58,320

landed in kazakhstan when might those be

578

00:20:01,430 --> 00:19:59,440

available

579

00:20:03,909 --> 00:20:01,440

in the world yeah i know the the us

580

00:20:05,350 --> 00:20:03,919

folks in in moscow and the folks who are

581

00:20:07,270 --> 00:20:05,360

at the landing site are working to get

582

00:20:09,590 --> 00:20:07,280

those images transmitted to the united

583

00:20:13,510 --> 00:20:09,600

states i i don't have an update uh today

584

00:20:15,510 --> 00:20:13,520

on on what the expected availability is

585

00:20:16,549 --> 00:20:15,520

oh great thank you and a question for

586

00:20:17,990 --> 00:20:16,559

kylie

587

00:20:19,029 --> 00:20:18,000

are you guys going to how are you going

588

00:20:20,789 --> 00:20:19,039

to

589

00:20:22,549 --> 00:20:20,799

alert people that those are available

590

00:20:24,710 --> 00:20:22,559

will you be sending out a news advisory

591

00:20:25,909 --> 00:20:24,720

or do we just need to keep checking the

592

00:20:27,350 --> 00:20:25,919

website

593

00:20:31,430 --> 00:20:27,360

uh it's expected that they would be

594

00:20:33,590 --> 00:20:31,440

posted on the website at www.nasa.gov

595

00:20:36,870 --> 00:20:33,600

thank you and one last question derek

596

00:20:38,070 --> 00:20:36,880

how how much time passed um

597

00:20:40,710 --> 00:20:38,080

yesterday

598

00:20:43,350 --> 00:20:40,720

without with the lack of all the payload

599

00:20:45,029 --> 00:20:43,360

data et cetera um

600

00:20:46,230 --> 00:20:45,039

you know with with the uh

601
00:20:48,070 --> 00:20:46,240
with the breakdown that occurred how

602
00:20:49,990 --> 00:20:48,080
many hours did all told before it was

603
00:20:51,990 --> 00:20:50,000
fixed

604
00:20:53,830 --> 00:20:52,000
see i it it's

605
00:20:55,669 --> 00:20:53,840
the failure occurred like

606
00:20:56,470 --> 00:20:55,679
right at the beginning of my hand over

607
00:20:58,310 --> 00:20:56,480
to

608
00:20:59,110 --> 00:20:58,320
dina the orbit three team and then it

609
00:21:01,190 --> 00:20:59,120
was

610
00:21:02,950 --> 00:21:01,200
the repair happened early on the next

611
00:21:04,950 --> 00:21:02,960
shift so i would estimate on the order

612
00:21:07,430 --> 00:21:04,960
of eight to nine hours

613
00:21:12,149 --> 00:21:07,440

thank you that's all for me

614

00:21:17,190 --> 00:21:15,990

thanks todd albertson of florida today

615

00:21:18,630 --> 00:21:17,200

i was

616

00:21:21,590 --> 00:21:18,640

wondering if you might be able to tell

617

00:21:23,430 --> 00:21:21,600

us what the earliest time those

618

00:21:25,350 --> 00:21:23,440

photos from the

619

00:21:26,870 --> 00:21:25,360

high-flying photo opportunity might be

620

00:21:31,510 --> 00:21:26,880

available

621

00:21:36,390 --> 00:21:31,520

business today are in time for

622

00:21:40,710 --> 00:21:38,390

i think it's a matter of days as they're

623

00:21:45,190 --> 00:21:40,720

recovered as part of the cargo that was

624

00:21:50,310 --> 00:21:47,830

okay and so then kyla you do not expect

625

00:21:52,789 --> 00:21:50,320

that they would be available uh today

626

00:21:57,669 --> 00:21:52,799

not that we are aware of

627

00:22:03,590 --> 00:22:01,029

okay and uh bill hartwick then

628

00:22:05,270 --> 00:22:03,600

um yeah thank you a question for alison

629

00:22:06,149 --> 00:22:05,280

for those of us who timelined these

630

00:22:08,149 --> 00:22:06,159

things

631

00:22:10,710 --> 00:22:08,159

does the antenna install simply sit in

632

00:22:11,990 --> 00:22:10,720

the block where the 1553 cable had been

633

00:22:13,909 --> 00:22:12,000

and i want to make sure the only other

634

00:22:15,430 --> 00:22:13,919

changes for the stp

635

00:22:17,430 --> 00:22:15,440

visible light photography you guys are

636

00:22:18,950 --> 00:22:17,440

going to you're just swapping an ir but

637

00:22:20,470 --> 00:22:18,960

the timing of those events then would

638

00:22:22,070 --> 00:22:20,480

stay the same

639

00:22:24,950 --> 00:22:22,080

right and so the timeline does look

640

00:22:27,590 --> 00:22:24,960

slightly different the 1553 data cable

641

00:22:29,669 --> 00:22:27,600

task was timeline for 45 minutes and so

642

00:22:31,270 --> 00:22:29,679

the the lab work that we insert in there

643

00:22:33,430 --> 00:22:31,280

takes about an hour

644

00:22:35,430 --> 00:22:33,440

um so what we did was we just shifted

645

00:22:37,830 --> 00:22:35,440

all the tasks that come after that lab

646

00:22:40,470 --> 00:22:37,840

ewc work down a little bit and this is

647

00:22:43,750 --> 00:22:40,480

what caused us to defer in addition to

648

00:22:45,750 --> 00:22:43,760

the 1553 data cable we also deferred on

649

00:22:47,270 --> 00:22:45,760

spanky's timeline i mentioned that

650

00:22:49,350 --> 00:22:47,280

restoring of the tools in the airlock

651
00:22:51,029 --> 00:22:49,360
toolbox we deferred that task to a

652
00:22:52,870 --> 00:22:51,039
get-ahead so that allowed us to shift

653
00:22:55,430 --> 00:22:52,880
all the activities down we're also

654
00:22:57,590 --> 00:22:55,440
showing a slightly longer time we had 30

655
00:22:59,430 --> 00:22:57,600
minutes for the still photos of stph3

656
00:23:00,789 --> 00:22:59,440
and now we're showing 40 minutes

657
00:23:03,029 --> 00:23:00,799
uh

658
00:23:05,029 --> 00:23:03,039
for the activity at the end of the eva

659
00:23:06,950 --> 00:23:05,039
that's the thruster photo

660
00:23:09,590 --> 00:23:06,960
does that go

661
00:23:11,909 --> 00:23:09,600
uh we it's it's still we still have the

662
00:23:14,549 --> 00:23:11,919
pdgf and fgb thruster photos slash

663
00:23:17,190 --> 00:23:14,559

cleanup shown for 15 minutes i i don't

664

00:23:19,669 --> 00:23:17,200

have a hand at what it was before we do

665

00:23:21,190 --> 00:23:19,679

have the photos as a opportunity as time

666

00:23:22,630 --> 00:23:21,200

permits since drew will have the camera

667

00:23:24,310 --> 00:23:22,640

with him actually taking those photos

668

00:23:26,310 --> 00:23:24,320

will only take a couple minutes but the

669

00:23:28,070 --> 00:23:26,320

main the main purpose of that task was

670

00:23:29,590 --> 00:23:28,080

to help clean up the work site put all

671

00:23:32,070 --> 00:23:29,600

the tools back inside the tool bags and

672

00:23:35,110 --> 00:23:32,080

get them back to the airlock

673

00:23:36,470 --> 00:23:35,120

thanks and one question for derek

674

00:23:39,830 --> 00:23:36,480

stand today on is

675

00:23:42,230 --> 00:23:39,840

rather not to add a date of this mission

676

00:23:44,710 --> 00:23:42,240

as i was uh walking in the briefing bill

677

00:23:46,789 --> 00:23:44,720

uh what i my understanding is and what

678

00:23:48,630 --> 00:23:46,799

was announced to immt is that the

679

00:23:55,830 --> 00:23:48,640

decision has been made by both programs

680

00:23:58,390 --> 00:23:57,430

okay that must be all the questions on

681

00:23:59,909 --> 00:23:58,400

the phone bridge do we have any

682

00:24:02,310 --> 00:23:59,919

follow-ups here

683

00:24:06,230 --> 00:24:04,230

phillips loss with nasa spaceflight.com

684

00:24:08,549 --> 00:24:06,240

again for uh for derek could you give us

685

00:24:10,950 --> 00:24:08,559

uh just a transfer status and i noticed

686

00:24:12,950 --> 00:24:10,960

in the execute package uh sort of

687

00:24:14,149 --> 00:24:12,960

juggling some of the tasks i know they

688

00:24:15,830 --> 00:24:14,159

talked about

689

00:24:17,990 --> 00:24:15,840

uh obviously because the russian crew

690

00:24:19,669 --> 00:24:18,000

members are sleeping not to do atv

691

00:24:21,029 --> 00:24:19,679

unpack today are you still gonna be able

692

00:24:22,710 --> 00:24:21,039

to get to all of that uh during the

693

00:24:25,430 --> 00:24:22,720

documentation yeah the the mid deck

694

00:24:27,110 --> 00:24:25,440

transfer is going per the plan so we

695

00:24:28,549 --> 00:24:27,120

expect to finish all that i'm i think

696

00:24:31,669 --> 00:24:28,559

we're we're probably an hour or two

697

00:24:34,230 --> 00:24:31,679

ahead on mid deck stuff and we expect to

698

00:24:35,669 --> 00:24:34,240

completely unpack the atv or at least

699

00:24:38,070 --> 00:24:35,679

come very close

700

00:24:42,710 --> 00:24:38,080

by the time endeavor undocks so transfer

701
00:24:46,470 --> 00:24:44,230
with that we'll wrap up this briefing

702
00:24:47,990 --> 00:24:46,480
with a few programming notes the

703
00:24:49,430 --> 00:24:48,000
shuttle crew and rongaran again are

704
00:24:51,990 --> 00:24:49,440
wrapping up their morning on board the

705
00:24:54,630 --> 00:24:52,000
station at 11 a.m then we'll have a

706
00:24:57,350 --> 00:24:54,640
video file from the soyuz landing events

707
00:24:59,510 --> 00:24:57,360
that will air on nasa tv then the flight

708
00:25:01,909 --> 00:24:59,520
day 9 highlights will begin airing at 12

709
00:25:03,669 --> 00:25:01,919
p.m central time and we have an update

710
00:25:05,510 --> 00:25:03,679
from the international space station

711
00:25:08,549 --> 00:25:05,520
flight director on console

712
00:25:09,669 --> 00:25:08,559
in mission control at 4 45 pm and that

713
00:25:12,390 --> 00:25:09,679

crew then is

714

00:25:14,390 --> 00:25:12,400

scheduled to wake in at 6 56 pm and

715

00:25:15,909 --> 00:25:14,400

begin the preparations with that aisle

716

00:25:18,710 --> 00:25:15,919

activity to get ready for the third

717

00:25:20,789 --> 00:25:18,720

spacewalk which is set to begin at 12 46