



ter

John

1
00:00:05,670 --> 00:00:03,669
good morning and welcome back to nasa's

2
00:00:07,510 --> 00:00:05,680
johnson space center for today's mission

3
00:00:09,270 --> 00:00:07,520
status briefing this is flight day 9 of

4
00:00:11,030 --> 00:00:09,280
the sts-134

5
00:00:13,589 --> 00:00:11,040
mission to the international space

6
00:00:16,550 --> 00:00:13,599
station we'll talk about the activities

7
00:00:18,230 --> 00:00:16,560
onboard the complex earlier today that

8
00:00:19,830 --> 00:00:18,240
went on and also look ahead at the

9
00:00:22,230 --> 00:00:19,840
mission's third spacewalk coming up

10
00:00:23,910 --> 00:00:22,240
overnight so to do that we have the lead

11
00:00:26,470 --> 00:00:23,920
space station flight director derek

12
00:00:28,710 --> 00:00:26,480
hossman and the lead spacewalk officer

13
00:00:30,230 --> 00:00:28,720

allison bollinger so we'll start out

14

00:00:32,310 --> 00:00:30,240

with comments and then take questions

15

00:00:35,190 --> 00:00:32,320

derek okay thanks kylie and good morning

16

00:00:37,430 --> 00:00:35,200

everybody well after a relatively quiet

17

00:00:39,510 --> 00:00:37,440

day yesterday uh the

18

00:00:41,430 --> 00:00:39,520

shuttle endeavor crew plus their adopted

19

00:00:43,910 --> 00:00:41,440

crew member ron guerin

20

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

got back to work today

21

00:00:46,790 --> 00:00:45,600

as you may recall we discussed yesterday

22

00:00:48,709 --> 00:00:46,800

ron garan has been on the shuttle

23

00:00:50,389 --> 00:00:48,719

schedule all along so he woke up with a

24

00:00:52,869 --> 00:00:50,399

shuttle crew today

25

00:00:55,750 --> 00:00:52,879

now that the 25 s crew is safely on the

26
00:00:57,270 --> 00:00:55,760
ground uh the remaining uh two russian

27
00:00:59,910 --> 00:00:57,280
crew members who are of course ron

28
00:01:02,470 --> 00:00:59,920
guerin's uh expedition crewmates

29
00:01:04,070 --> 00:01:02,480
uh are in for a long sleep uh they were

30
00:01:05,189 --> 00:01:04,080
asleep all day while i was on council

31
00:01:06,870 --> 00:01:05,199
they're gonna sleep through the night

32
00:01:08,950 --> 00:01:06,880
and then when they wake up tomorrow

33
00:01:11,030 --> 00:01:08,960
they'll be back on on the

34
00:01:12,950 --> 00:01:11,040
shuttle crew schedule so starting

35
00:01:14,950 --> 00:01:12,960
tomorrow we have a normal sleep shift

36
00:01:15,990 --> 00:01:14,960
will be which will be a a nice thing to

37
00:01:18,390 --> 00:01:16,000
have back

38
00:01:20,870 --> 00:01:18,400

um as i mentioned the the shuttle crew

39

00:01:23,910 --> 00:01:20,880

stayed busy on the space station today

40

00:01:25,749 --> 00:01:23,920

um as as i'm sure most of you know

41

00:01:28,149 --> 00:01:25,759

greg shamatoff and mike fink are both

42

00:01:30,950 --> 00:01:28,159

veteran international space station long

43

00:01:32,710 --> 00:01:30,960

duration crew members so uh we leveraged

44

00:01:34,710 --> 00:01:32,720

on their experience onboard the station

45

00:01:36,710 --> 00:01:34,720

and put them to work today

46

00:01:38,550 --> 00:01:36,720

one of the one of the critical station

47

00:01:41,429 --> 00:01:38,560

maintenance tasks that we got at least

48

00:01:44,389 --> 00:01:41,439

started today was repair work on the

49

00:01:46,630 --> 00:01:44,399

node 3 carbon dioxide removal assembly

50

00:01:49,109 --> 00:01:46,640

these carbon dioxide removal assemblies

51
00:01:51,270 --> 00:01:49,119
or cdrs as we call them have two

52
00:01:53,830 --> 00:01:51,280
desiccant beds that actually do the

53
00:01:56,630 --> 00:01:53,840
removal of the carbon dioxide one of the

54
00:01:57,990 --> 00:01:56,640
two beds in this note 3 cedric is beyond

55
00:02:00,230 --> 00:01:58,000
its useful life

56
00:02:02,870 --> 00:02:00,240
so we brought up a new replacement bed

57
00:02:06,870 --> 00:02:02,880
or replacement cartridge on on ulf6 on

58
00:02:08,949 --> 00:02:06,880
this flight and what the crew did today

59
00:02:11,510 --> 00:02:08,959
spanky taz and ron working together

60
00:02:13,670 --> 00:02:11,520
taking turns was to remove the actual

61
00:02:15,670 --> 00:02:13,680
carbon dioxide removal assembly unit

62
00:02:18,150 --> 00:02:15,680
from its from the rack where it resides

63
00:02:21,030 --> 00:02:18,160

in node three they took it to the to the

64

00:02:22,390 --> 00:02:21,040

jpm area of the gym

65

00:02:23,990 --> 00:02:22,400

they tied it down to a maintenance

66

00:02:25,990 --> 00:02:24,000

workstation and then

67

00:02:27,830 --> 00:02:26,000

after eva 3 2 days from now they're

68

00:02:29,270 --> 00:02:27,840

actually going to pull this desk in bed

69

00:02:30,390 --> 00:02:29,280

out of the carbon dioxide removal

70

00:02:31,830 --> 00:02:30,400

assembly and then replace it with the

71

00:02:34,630 --> 00:02:31,840

new bed and then we're going to bring

72

00:02:37,509 --> 00:02:34,640

that failed bed home so that's important

73

00:02:38,949 --> 00:02:37,519

work to get us back to normal redundancy

74

00:02:41,270 --> 00:02:38,959

of course we have a second seizure in

75

00:02:43,750 --> 00:02:41,280

the lab so we're using that labsidra in

76

00:02:45,430 --> 00:02:43,760

addition to the the bosdouq unit in the

77

00:02:47,430 --> 00:02:45,440

russian segment to do carbon dioxide

78

00:02:49,110 --> 00:02:47,440

removal assembly but we

79

00:02:51,190 --> 00:02:49,120

after this mission we'll be back to

80

00:02:53,430 --> 00:02:51,200

fully redundant carbon dioxide scrubbing

81

00:02:54,710 --> 00:02:53,440

capability on the u.s segment

82

00:02:56,229 --> 00:02:54,720

the other piece of maintenance work that

83

00:02:59,430 --> 00:02:56,239

we did today was on the oxygen

84

00:03:00,710 --> 00:02:59,440

generation system uh again some of you

85

00:03:02,309 --> 00:03:00,720

who have been involved in the past

86

00:03:04,390 --> 00:03:02,319

missions and and keeping track of what's

87

00:03:05,509 --> 00:03:04,400

going on in the station know that we're

88

00:03:07,750 --> 00:03:05,519

having some challenges with

89

00:03:10,390 --> 00:03:07,760

contamination in the oxygen generation

90

00:03:12,229 --> 00:03:10,400

system and we flew at

91

00:03:14,390 --> 00:03:12,239

what we call a remediation cartridge

92

00:03:16,550 --> 00:03:14,400

it's basically a filter that is plumbed

93

00:03:18,949 --> 00:03:16,560

into the water line associated with the

94

00:03:20,949 --> 00:03:18,959

oxygen generation system

95

00:03:24,390 --> 00:03:20,959

the crew today uh

96

00:03:26,949 --> 00:03:24,400

bo again are our go-to station veterans

97

00:03:29,509 --> 00:03:26,959

uh spanky and taz in concert with ron

98

00:03:31,190 --> 00:03:29,519

garan worked on the oxygen generation

99

00:03:33,430 --> 00:03:31,200

system

100

00:03:35,509 --> 00:03:33,440

to install this cartridge and the

101
00:03:37,910 --> 00:03:35,519
associated plumbing um we're going to

102
00:03:39,589 --> 00:03:37,920
wait for the eva to eva 3 to be behind

103
00:03:42,149 --> 00:03:39,599
us and then we're going to activate the

104
00:03:44,070 --> 00:03:42,159
oxygen generation system have the crew

105
00:03:46,390 --> 00:03:44,080
check for leaks and then start running

106
00:03:47,990 --> 00:03:46,400
the water loops through this remediation

107
00:03:49,350 --> 00:03:48,000
cartridge or filter

108
00:03:51,830 --> 00:03:49,360
in order to see what we can do about

109
00:03:53,429 --> 00:03:51,840
that contamination

110
00:03:55,830 --> 00:03:53,439
in the briefing

111
00:03:57,190 --> 00:03:55,840
last night from dana weigel she

112
00:03:59,110 --> 00:03:57,200
mentioned briefly that we had an

113
00:04:02,949 --> 00:03:59,120

electrical power system

114

00:04:05,429 --> 00:04:02,959

failure last night and basically we have

115

00:04:06,550 --> 00:04:05,439

banks of switches if you will or circuit

116

00:04:08,550 --> 00:04:06,560

breakers

117

00:04:11,190 --> 00:04:08,560

called remote power controller modules

118

00:04:12,869 --> 00:04:11,200

or rpcms one of those one of the

119

00:04:15,589 --> 00:04:12,879

individual switches in that banker

120

00:04:18,390 --> 00:04:15,599

switch is tripped and it removed power

121

00:04:20,390 --> 00:04:18,400

to a video switching device

122

00:04:22,710 --> 00:04:20,400

and it's more than videos video and its

123

00:04:24,629 --> 00:04:22,720

payload data so once once this switch

124

00:04:26,790 --> 00:04:24,639

opened we were unable to downlink high

125

00:04:29,430 --> 00:04:26,800

definition video to the ground

126
00:04:30,950 --> 00:04:29,440
we were unable to downlink payload data

127
00:04:32,870 --> 00:04:30,960
the payloads continued to operate on

128
00:04:34,950 --> 00:04:32,880
station but

129
00:04:36,310 --> 00:04:34,960
the payload operations integration

130
00:04:38,390 --> 00:04:36,320
center and marshall

131
00:04:39,830 --> 00:04:38,400
space flight center in huntsville was

132
00:04:41,350 --> 00:04:39,840
not able to get the data from the

133
00:04:44,950 --> 00:04:41,360
payloads while this

134
00:04:46,550 --> 00:04:44,960
device was not powered so it was

135
00:04:47,830 --> 00:04:46,560
relatively important to us that we get

136
00:04:49,189 --> 00:04:47,840
it back quickly

137
00:04:51,110 --> 00:04:49,199
in addition to that payload data i

138
00:04:53,510 --> 00:04:51,120

should mention that it also affects our

139

00:04:55,430 --> 00:04:53,520

ability to uplink files to the station

140

00:04:57,350 --> 00:04:55,440

uplink procedures and messages and such

141

00:04:59,590 --> 00:04:57,360

that the crew needs during the day and

142

00:05:01,110 --> 00:04:59,600

also the ip phone which is of course the

143

00:05:03,670 --> 00:05:01,120

way the crew uses

144

00:05:05,430 --> 00:05:03,680

uh the uh the device that the crew uses

145

00:05:07,510 --> 00:05:05,440

to communicate with friends family on

146

00:05:09,990 --> 00:05:07,520

the ground so pretty significant impacts

147

00:05:11,590 --> 00:05:10,000

to day-to-day operations although we

148

00:05:13,350 --> 00:05:11,600

don't consider those systems critical

149

00:05:15,350 --> 00:05:13,360

they're certainly important in our

150

00:05:16,950 --> 00:05:15,360

day-to-day work

151

00:05:19,270 --> 00:05:16,960

overnight the team put together

152

00:05:21,189 --> 00:05:19,280

procedures needed to change out that

153

00:05:23,430 --> 00:05:21,199

rpcm or that

154

00:05:25,670 --> 00:05:23,440

circuit breaker device and then

155

00:05:27,909 --> 00:05:25,680

at the beginning of the day today we got

156

00:05:29,670 --> 00:05:27,919

that rpcm switched out we powered on all

157

00:05:32,310 --> 00:05:29,680

all the components and now we're back to

158

00:05:34,070 --> 00:05:32,320

uh 100 in terms of

159

00:05:36,629 --> 00:05:34,080

the video downlink and also the the

160

00:05:39,510 --> 00:05:36,639

payload data the ip phone file uplink

161

00:05:40,870 --> 00:05:39,520

etc so another good relatively small in

162

00:05:43,110 --> 00:05:40,880

the grand scheme of things but another

163

00:05:46,550 --> 00:05:43,120

good example of how the teams can react

164

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

quickly to problems in real time

165

00:05:51,029 --> 00:05:48,800

and of course looking ahead we have eba

166

00:05:54,070 --> 00:05:51,039

3 in front of us tomorrow

167

00:05:56,629 --> 00:05:54,080

eva 3 will uh beat in terms of the space

168

00:05:59,029 --> 00:05:56,639

walkers will be a repeat of eva2 with

169

00:06:01,670 --> 00:05:59,039

foysteel and fink going outside and

170

00:06:03,430 --> 00:06:01,680

shamataw running the show from inside

171

00:06:06,390 --> 00:06:03,440

and of course we'll be using the new

172

00:06:07,590 --> 00:06:06,400

pre-breathe protocol for this eva

173

00:06:09,029 --> 00:06:07,600

we're not going to do camp out we're

174

00:06:11,110 --> 00:06:09,039

going to use the institute light

175

00:06:12,469 --> 00:06:11,120

exercise protocol and for the timeline

176
00:06:14,790 --> 00:06:12,479
and for the new protocol i'll hand over

177
00:06:16,309 --> 00:06:14,800
to allison to talk about the details

178
00:06:17,749 --> 00:06:16,319
all right thank you derek

179
00:06:19,909 --> 00:06:17,759
all right i'll go ahead and get started

180
00:06:21,189 --> 00:06:19,919
with a brief summary of what eva 3 will

181
00:06:22,550 --> 00:06:21,199
look like since it's a little bit

182
00:06:24,469 --> 00:06:22,560
different from what we originally

183
00:06:26,710 --> 00:06:24,479
planned pre-flight we'll start out the

184
00:06:29,350 --> 00:06:26,720
day as derek mentioned with drew and

185
00:06:31,350 --> 00:06:29,360
spanky performing this eva it'll it'll

186
00:06:33,590 --> 00:06:31,360
start out looking very similar where our

187
00:06:35,749 --> 00:06:33,600
first major task is to install the power

188
00:06:38,309 --> 00:06:35,759

and data grapple fixture pdgf on the

189

00:06:40,150 --> 00:06:38,319

russian fgb segment so the two crew

190

00:06:43,189 --> 00:06:40,160

members will translate with some tool

191

00:06:44,629 --> 00:06:43,199

bags out to the port side of the fgb

192

00:06:46,710 --> 00:06:44,639

they will remove some multi-layer

193

00:06:48,629 --> 00:06:46,720

insulation and also caps

194

00:06:50,150 --> 00:06:48,639

that that open up the receptacles where

195

00:06:52,070 --> 00:06:50,160

the the power and data grapple fixture

196

00:06:53,350 --> 00:06:52,080

will be installed both crew members will

197

00:06:55,029 --> 00:06:53,360

then head back to the airlock and

198

00:06:57,350 --> 00:06:55,039

they'll retrieve the pdgf and its

199

00:06:58,950 --> 00:06:57,360

associated frame and its cabling then

200

00:07:00,790 --> 00:06:58,960

they'll work together to inch worm that

201
00:07:03,589 --> 00:07:00,800
grapple fixture back to its install

202
00:07:05,270 --> 00:07:03,599
location on the on the fgb

203
00:07:06,550 --> 00:07:05,280
once it's in position they'll soft dock

204
00:07:09,830 --> 00:07:06,560
it and then they'll tighten the three

205
00:07:11,110 --> 00:07:09,840
feet that hold the pdgf onto the fgb

206
00:07:12,950 --> 00:07:11,120
after they complete with that they'll

207
00:07:15,589 --> 00:07:12,960
install a vsc or video signal

208
00:07:18,469 --> 00:07:15,599
conditioner which is used uh

209
00:07:20,390 --> 00:07:18,479
in combination with the pdgf to allow

210
00:07:24,469 --> 00:07:20,400
the pgf to be a future base for the

211
00:07:26,629 --> 00:07:24,479
ssrms uh once they install that uh vsc

212
00:07:28,150 --> 00:07:26,639
they'll route some cables to it um and

213
00:07:31,029 --> 00:07:28,160

that that'll complete the work that we

214

00:07:33,350 --> 00:07:31,039

will perform on on the pdgf for that day

215

00:07:34,870 --> 00:07:33,360

we'll then start working on re rewiring

216

00:07:36,870 --> 00:07:34,880

some of the power that's heading to the

217

00:07:38,870 --> 00:07:36,880

fgb these are the y-jumpers as we call

218

00:07:40,629 --> 00:07:38,880

them we have a port and a starboard set

219

00:07:42,870 --> 00:07:40,639

we'll first start out installing the

220

00:07:44,790 --> 00:07:42,880

port side of those jumpers the two

221

00:07:46,550 --> 00:07:44,800

spanky will make his way forward on node

222

00:07:48,469 --> 00:07:46,560

one and he'll demate two connectors on

223

00:07:50,629 --> 00:07:48,479

node one while drew's standing by once

224

00:07:52,629 --> 00:07:50,639

those two connectors are demated drew

225

00:07:54,790 --> 00:07:52,639

will then uh demate a connection at the

226

00:07:56,629 --> 00:07:54,800

pma fgb interface and he'll hook up this

227

00:07:59,189 --> 00:07:56,639

new y-jumper and then give spanky a go

228

00:08:00,790 --> 00:07:59,199

to hook up his ends of the y-jumper once

229

00:08:02,390 --> 00:08:00,800

we're complete with the port side y

230

00:08:03,749 --> 00:08:02,400

jumper installed the ground will do some

231

00:08:05,749 --> 00:08:03,759

commanding to check out the new

232

00:08:07,029 --> 00:08:05,759

connections that we just made as well as

233

00:08:08,790 --> 00:08:07,039

put the inhibits in place for the

234

00:08:10,710 --> 00:08:08,800

starboard side

235

00:08:13,430 --> 00:08:10,720

on the original eva3 our plan at this

236

00:08:16,150 --> 00:08:13,440

time was to install the 1553 data cable

237

00:08:17,430 --> 00:08:16,160

that runs from node 3 to the pdgf but

238

00:08:19,990 --> 00:08:17,440

since we weren't able to complete all

239

00:08:21,430 --> 00:08:20,000

the tasks on eva 1 now during this time

240

00:08:22,950 --> 00:08:21,440

that the ground is performing the

241

00:08:25,110 --> 00:08:22,960

checkouts and putting the inhibits in

242

00:08:26,869 --> 00:08:25,120

place for the second y jumper drew and

243

00:08:29,189 --> 00:08:26,879

spanky will head back to the lab to

244

00:08:31,029 --> 00:08:29,199

finish up that lab ewc or external

245

00:08:34,070 --> 00:08:31,039

wireless communications task that we did

246

00:08:35,909 --> 00:08:34,080

not complete on eva one all the cable

247

00:08:37,589 --> 00:08:35,919

that we need to install is out there the

248

00:08:39,269 --> 00:08:37,599

handrails with the antennas are already

249

00:08:41,190 --> 00:08:39,279

installed the two crew members will just

250

00:08:43,509 --> 00:08:41,200

need to work together to release a

251
00:08:45,350 --> 00:08:43,519
micrometer or debris or mmod shield

252
00:08:47,430 --> 00:08:45,360
that's covering the connectors that we

253
00:08:50,389 --> 00:08:47,440
need to get to on the lab they'll open

254
00:08:51,829 --> 00:08:50,399
up that uh that mmod shield then they'll

255
00:08:54,630 --> 00:08:51,839
need to put inhibit in place which

256
00:08:56,790 --> 00:08:54,640
inhibits iss uhf communications upon

257
00:08:58,550 --> 00:08:56,800
which time will be relying on

258
00:09:00,790 --> 00:08:58,560
shuttle assets in order to talk to the

259
00:09:03,030 --> 00:09:00,800
ev crew we'll demate two existing

260
00:09:05,110 --> 00:09:03,040
connectors that are part of the uhf

261
00:09:07,670 --> 00:09:05,120
system as well as part of the existing

262
00:09:10,470 --> 00:09:07,680
external eos system once we demate those

263
00:09:12,310 --> 00:09:10,480

we'll install the new ewc antenna close

264

00:09:14,790 --> 00:09:12,320

up the mmod shield and then work on

265

00:09:16,870 --> 00:09:14,800

coiling the old e-with cable and

266

00:09:18,389 --> 00:09:16,880

bringing that inside once we're complete

267

00:09:19,670 --> 00:09:18,399

with that task and once the ground is

268

00:09:22,150 --> 00:09:19,680

complete with putting the inhibits in

269

00:09:24,150 --> 00:09:22,160

place for the starboard y jumper install

270

00:09:26,790 --> 00:09:24,160

the crew members will head back back to

271

00:09:28,470 --> 00:09:26,800

the fgb node one pma area then they'll

272

00:09:30,630 --> 00:09:28,480

work on performing the starboard side of

273

00:09:32,790 --> 00:09:30,640

those jumpers with spanky demating two

274

00:09:34,710 --> 00:09:32,800

connectors on node one giving drew the

275

00:09:36,710 --> 00:09:34,720

go to make his connections at the pma

276

00:09:39,430 --> 00:09:36,720

fgb interface and then they'll work to

277

00:09:41,350 --> 00:09:39,440

get that new y-jumper cable installed

278

00:09:43,030 --> 00:09:41,360

once we're complete with the starboard

279

00:09:44,790 --> 00:09:43,040

side of the y-jumper we'll work on

280

00:09:46,550 --> 00:09:44,800

cleaning up the work site we'll ensure

281

00:09:48,550 --> 00:09:46,560

that we get all the tool bags back near

282

00:09:50,710 --> 00:09:48,560

the airlock and then another change to

283

00:09:52,710 --> 00:09:50,720

the end of this eva we had nominally

284

00:09:54,389 --> 00:09:52,720

planned on heading out to elc 3 on the

285

00:09:57,110 --> 00:09:54,399

port side of the trust to take still

286

00:09:59,670 --> 00:09:57,120

photos of stph3 which is an experiment

287

00:10:00,949 --> 00:09:59,680

on the newly installed elc3 carrier but

288

00:10:03,110 --> 00:10:00,959

actually we're going to change that up

289

00:10:04,790 --> 00:10:03,120

and instead of using the eva digital

290

00:10:07,430 --> 00:10:04,800

still camera we'll actually be using the

291

00:10:09,590 --> 00:10:07,440

eva ir camera infrared camera to take

292

00:10:10,949 --> 00:10:09,600

some infrared imagery of the vader

293

00:10:13,590 --> 00:10:10,959

experiment which is a part of the

294

00:10:15,590 --> 00:10:13,600

experiment on the on the overall stp h3

295

00:10:17,670 --> 00:10:15,600

complement drew will be using this ir

296

00:10:19,350 --> 00:10:17,680

camera to get some imagery that the

297

00:10:21,110 --> 00:10:19,360

ground teams will use to help regain

298

00:10:22,949 --> 00:10:21,120

science on their experiment and

299

00:10:24,470 --> 00:10:22,959

meanwhile spanky will be installing a

300

00:10:26,710 --> 00:10:24,480

multi-layer insulation cover on the

301
00:10:28,389 --> 00:10:26,720
grapple fixture on the high pressure gas

302
00:10:30,470 --> 00:10:28,399
tank which we also launched on that

303
00:10:31,910 --> 00:10:30,480
spare elc-3

304
00:10:34,389 --> 00:10:31,920
so once those crew members are complete

305
00:10:36,870 --> 00:10:34,399
with the tasks on elc 3 we'll head back

306
00:10:39,670 --> 00:10:36,880
to the airlock and and call today call

307
00:10:41,350 --> 00:10:39,680
it a day and we'll still have with us

308
00:10:43,670 --> 00:10:41,360
at the airlock in case we get a chance

309
00:10:45,750 --> 00:10:43,680
we will have that 1553 data cable which

310
00:10:46,470 --> 00:10:45,760
we weren't able to install we will have

311
00:10:50,710 --> 00:10:46,480
that

312
00:10:53,750 --> 00:10:50,720
have about 45 minutes left at the end of

313
00:10:55,509 --> 00:10:53,760

the eva we might get a chance to install

314

00:10:58,630 --> 00:10:55,519

that cable if not we could also take

315

00:11:01,829 --> 00:10:58,640

still photos of the stph3 task which we

316

00:11:04,310 --> 00:11:01,839

had deferred as well as possibly to stow

317

00:11:06,470 --> 00:11:04,320

some tools in the uh in the in the

318

00:11:08,470 --> 00:11:06,480

airlock toolbox so with that that

319

00:11:10,069 --> 00:11:08,480

summarizes eva three i'll go ahead and

320

00:11:12,389 --> 00:11:10,079

talk a little bit more about aisle or

321

00:11:14,069 --> 00:11:12,399

the in light exercise pre-breathe

322

00:11:15,990 --> 00:11:14,079

protocol that we'll be trying out for

323

00:11:17,829 --> 00:11:16,000

the first time tomorrow just to give

324

00:11:19,350 --> 00:11:17,839

everyone a refresher on the campout

325

00:11:21,990 --> 00:11:19,360

pre-breathe protocol which we've used

326

00:11:23,670 --> 00:11:22,000

about 70 times on the space station so

327

00:11:25,509 --> 00:11:23,680

this protocol starts the night before

328

00:11:27,590 --> 00:11:25,519

the eva where the crew members don

329

00:11:29,670 --> 00:11:27,600

oxygen masks and they're on those masks

330

00:11:32,630 --> 00:11:29,680

for about 60 minutes at which time we

331

00:11:35,350 --> 00:11:32,640

depress the airlock down to 10.2 psi

332

00:11:37,110 --> 00:11:35,360

then the crew members remain at 10.2 psi

333

00:11:38,710 --> 00:11:37,120

for 8 hours and 40 minutes they're

334

00:11:40,630 --> 00:11:38,720

isolated in the airlock by themselves

335

00:11:42,949 --> 00:11:40,640

overnight they wake up in the morning

336

00:11:45,030 --> 00:11:42,959

they don those oxygen masks again this

337

00:11:47,110 --> 00:11:45,040

time for about 70 minutes during that

338

00:11:50,069 --> 00:11:47,120

time we repress the airlock back up to

339

00:11:52,310 --> 00:11:50,079

14.7 psi the crew members while still on

340

00:11:53,910 --> 00:11:52,320

masks are able to head out and maybe

341

00:11:55,269 --> 00:11:53,920

grab some food that they can eat later

342

00:11:57,110 --> 00:11:55,279

on and also take care of personal

343

00:11:59,670 --> 00:11:57,120

hygiene items then they'll head back to

344

00:12:02,310 --> 00:11:59,680

the airlock we depress back down to 10.2

345

00:12:04,470 --> 00:12:02,320

psi they doff the oxygen masks then they

346

00:12:06,629 --> 00:12:04,480

work on donning their suits once their

347

00:12:08,389 --> 00:12:06,639

suits are donned at 10.2 psi and they're

348

00:12:10,389 --> 00:12:08,399

all buttoned up and pressurized we start

349

00:12:13,990 --> 00:12:10,399

purging the suit as we repress back up

350

00:12:16,150 --> 00:12:14,000

to 14.7 psi and then we spend 50 minutes

351
00:12:17,990 --> 00:12:16,160
in the suit doing a resting in-suit

352
00:12:19,910 --> 00:12:18,000
pre-breathe before we head out the door

353
00:12:21,590 --> 00:12:19,920
to do the eva

354
00:12:23,990 --> 00:12:21,600
for the in-suit light exercise pre-booth

355
00:12:25,990 --> 00:12:24,000
protocol however we start the day of the

356
00:12:27,350 --> 00:12:26,000
eva the morning looks fairly similar to

357
00:12:28,629 --> 00:12:27,360
the camp out

358
00:12:30,310 --> 00:12:28,639
protocol with the exception that the

359
00:12:31,910 --> 00:12:30,320
crew members are able to wake up have a

360
00:12:33,590 --> 00:12:31,920
normal post sleep where they're not

361
00:12:34,949 --> 00:12:33,600
wearing oxygen masks they can go ahead

362
00:12:36,790 --> 00:12:34,959
and grab breakfast and take care of

363
00:12:38,470 --> 00:12:36,800

personal hygiene items when they're

364

00:12:40,550 --> 00:12:38,480

ready and per the timeline they'll go

365

00:12:42,949 --> 00:12:40,560

ahead and don their oxygen masks this

366

00:12:44,949 --> 00:12:42,959

time they're on the mask for 60 minutes

367

00:12:47,750 --> 00:12:44,959

during that time similar to campout we

368

00:12:49,430 --> 00:12:47,760

depress the airlock down to 10.2 psi and

369

00:12:51,269 --> 00:12:49,440

this will be the two ev crew members as

370

00:12:52,870 --> 00:12:51,279

well as three additional iv crew members

371

00:12:55,269 --> 00:12:52,880

who will help with the suit donning

372

00:12:57,190 --> 00:12:55,279

while they're at 10.2 psi they'll don

373

00:12:58,550 --> 00:12:57,200

their suits with the assistance of those

374

00:13:00,389 --> 00:12:58,560

other crew members

375

00:13:01,990 --> 00:13:00,399

once complete with the donning

376

00:13:03,190 --> 00:13:02,000

just like campout we'll go ahead and

377

00:13:05,670 --> 00:13:03,200

once the suits are buttoned up and

378

00:13:08,470 --> 00:13:05,680

pressurized we'll start the emu purge

379

00:13:10,069 --> 00:13:08,480

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

380

00:13:13,430 --> 00:13:10,079

at this point in time once we're back up

381

00:13:15,670 --> 00:13:13,440

at 14.7 where we'll start 50 minutes of

382

00:13:20,790 --> 00:13:15,680

the light exercise

383

00:13:23,190 --> 00:13:20,800

judge this it's based on a rate of

384

00:13:25,910 --> 00:13:23,200

perceived exertion or rpe scale which

385

00:13:27,430 --> 00:13:25,920

ranges from six to twenty six is you're

386

00:13:29,110 --> 00:13:27,440

you're sitting there not doing anything

387

00:13:31,750 --> 00:13:29,120

and we're asking crew members to target

388

00:13:33,910 --> 00:13:31,760

an rpe of seven so this is equivalent to

389

00:13:36,310 --> 00:13:33,920

walking a mile in about 70 minutes so

390

00:13:39,030 --> 00:13:36,320

it's a very light exercise so with that

391

00:13:41,110 --> 00:13:39,040

if we could go ahead and roll that video

392

00:13:42,870 --> 00:13:41,120

this video that we're going to show is

393

00:13:44,470 --> 00:13:42,880

the crew members receiving the training

394

00:13:46,710 --> 00:13:44,480

at the neutral buoyancy lab you can see

395

00:13:48,710 --> 00:13:46,720

spanky on the left and drew on the right

396

00:13:50,470 --> 00:13:48,720

during this 50 minutes of exercise

397

00:13:52,389 --> 00:13:50,480

they'll be mark will be running the show

398

00:13:54,230 --> 00:13:52,399

they'll be exercising for four minutes

399

00:13:55,750 --> 00:13:54,240

and then resting for a minute and then

400

00:13:57,189 --> 00:13:55,760

exercising for another four minutes and

401
00:13:58,150 --> 00:13:57,199
they'll repeat this process for 50

402
00:13:59,590 --> 00:13:58,160
minutes

403
00:14:01,110 --> 00:13:59,600
this is what we call the slow motion

404
00:14:02,629 --> 00:14:01,120
hokey pokey

405
00:14:04,550 --> 00:14:02,639
so the crew members will be we'll be

406
00:14:06,870 --> 00:14:04,560
doing this for 50 minutes once they're

407
00:14:09,910 --> 00:14:06,880
complete with that exercise they'll then

408
00:14:12,710 --> 00:14:09,920
do a 50-minute uh in-suit resting

409
00:14:13,910 --> 00:14:12,720
pre-breathe similar to the campout

410
00:14:15,670 --> 00:14:13,920
see spank you threw in a little arm

411
00:14:17,430 --> 00:14:15,680
motions there at the end

412
00:14:19,110 --> 00:14:17,440
so after the 50 minutes of exercise

413
00:14:20,710 --> 00:14:19,120

we'll do 50 minutes of in-suit resting

414

00:14:22,150 --> 00:14:20,720

pre-breathe and then we'll head out the

415

00:14:23,829 --> 00:14:22,160

door we'll depress the airlock and head

416

00:14:25,670 --> 00:14:23,839

at the door we're doing things slightly

417

00:14:27,509 --> 00:14:25,680

differently tomorrow though for eva 3

418

00:14:29,189 --> 00:14:27,519

since this is the first use of this

419

00:14:31,430 --> 00:14:29,199

protocol we're actually going to divide

420

00:14:32,870 --> 00:14:31,440

up the resting pre-breath into two

421

00:14:33,590 --> 00:14:32,880

different portions we'll start out we'll

422

00:14:38,790 --> 00:14:33,600

do

423

00:14:40,550 --> 00:14:38,800

10.2 psi and we repress back up to 14.7

424

00:14:42,629 --> 00:14:40,560

they'll do just a 20 minutes of a

425

00:14:44,550 --> 00:14:42,639

resting pre-breathe and that will allow

426
00:14:46,470 --> 00:14:44,560
us to get some data hopefully get some

427
00:14:48,310 --> 00:14:46,480
data on the ground to see how the oxygen

428
00:14:49,670 --> 00:14:48,320
tanks respond

429
00:14:51,670 --> 00:14:49,680
and this is just nice to have data that

430
00:14:53,430 --> 00:14:51,680
the engineers are interested in in

431
00:14:55,189 --> 00:14:53,440
getting so we'll do 20 minutes of

432
00:14:57,750 --> 00:14:55,199
resting followed by the 50 minutes of

433
00:14:59,430 --> 00:14:57,760
exercise followed by the 30 minutes of

434
00:15:00,629 --> 00:14:59,440
resting pre-breathe before we head at

435
00:15:02,870 --> 00:15:00,639
the door so that'll look slightly

436
00:15:04,470 --> 00:15:02,880
different than a future evas

437
00:15:06,230 --> 00:15:04,480
so just a few things to talk about the

438
00:15:07,910 --> 00:15:06,240

benefits of using this pre-breathe

439

00:15:10,870 --> 00:15:07,920

protocol it's estimated that we're going

440

00:15:12,949 --> 00:15:10,880

to use less oxygen during this protocol

441

00:15:14,790 --> 00:15:12,959

so post shuttle retirement this is this

442

00:15:16,550 --> 00:15:14,800

will be a big deal for station the crew

443

00:15:18,550 --> 00:15:16,560

members also spend less time on the

444

00:15:20,150 --> 00:15:18,560

oxygen masks which for some crew members

445

00:15:21,990 --> 00:15:20,160

can be uncomfortable they're not

446

00:15:24,310 --> 00:15:22,000

isolated in the airlock overnight which

447

00:15:26,470 --> 00:15:24,320

is which is also a benefit though the

448

00:15:27,990 --> 00:15:26,480

one drawback to this protocol though is

449

00:15:29,269 --> 00:15:28,000

that it does take longer in the morning

450

00:15:31,509 --> 00:15:29,279

to get out the door than it does with

451
00:15:33,189 --> 00:15:31,519
the camp up protocol so the egress we

452
00:15:35,269 --> 00:15:33,199
estimate to be about 30 minutes later

453
00:15:36,790 --> 00:15:35,279
than if we had done camp out protocol on

454
00:15:39,509 --> 00:15:36,800
this eva

455
00:15:41,189 --> 00:15:39,519
so with that that's uh my summary of of

456
00:15:43,430 --> 00:15:41,199
aisle so we can go ahead and take

457
00:15:44,949 --> 00:15:43,440
questions okay we'll start here in the

458
00:15:48,310 --> 00:15:44,959
johnson space center do you have a

459
00:15:50,790 --> 00:15:48,949
phillip sloss with

460
00:15:52,150 --> 00:15:50,800
nasaspaceflight.comforward

461
00:15:55,829 --> 00:15:52,160
derek

462
00:15:58,550 --> 00:15:55,839
on the rpc the rpc trips yesterday um

463
00:16:01,910 --> 00:15:58,560

is this something that's common uh

464

00:16:04,150 --> 00:16:01,920

and and also where where is this rpcm in

465

00:16:06,550 --> 00:16:04,160

the in the station thanks

466

00:16:07,829 --> 00:16:06,560

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

467

00:16:09,829 --> 00:16:07,839

problem

468

00:16:12,710 --> 00:16:09,839

that we know exists in the firmware that

469

00:16:15,110 --> 00:16:12,720

controls this bank of switches

470

00:16:17,189 --> 00:16:15,120

and the way it manifests itself is is

471

00:16:19,509 --> 00:16:17,199

kind of a spontaneous trip without any

472

00:16:21,110 --> 00:16:19,519

kind of associated current signature

473

00:16:22,949 --> 00:16:21,120

it's essentially just a bit flip in the

474

00:16:24,230 --> 00:16:22,959

firmware that results in one of the

475

00:16:26,310 --> 00:16:24,240

switches open

476

00:16:27,670 --> 00:16:26,320

opening and the way we recognize is that

477

00:16:29,430 --> 00:16:27,680

we look we look at data and see no

478

00:16:31,430 --> 00:16:29,440

current spike so there's no

479

00:16:34,710 --> 00:16:31,440

signature indication that would that

480

00:16:36,710 --> 00:16:34,720

would point to a real trip

481

00:16:39,189 --> 00:16:36,720

over time we've been changing out these

482

00:16:42,310 --> 00:16:39,199

older style rpcms with the known issue

483

00:16:45,829 --> 00:16:42,320

with the firmware with updated rpcms

484

00:16:49,030 --> 00:16:45,839

with uh with the this problem addressed

485

00:16:50,710 --> 00:16:49,040

this this particular rpcm i believe is

486

00:16:52,629 --> 00:16:50,720

in the lab so it you know it's obviously

487

00:17:01,590 --> 00:16:52,639

an iv a change on it and i'm pretty

488

00:17:05,510 --> 00:17:03,590

denise ciao with space.com um the

489

00:17:07,350 --> 00:17:05,520

changes that you made to the eva3

490

00:17:08,949 --> 00:17:07,360

timeline were those mainly get a head

491

00:17:10,789 --> 00:17:08,959

test or were those going to be added to

492

00:17:13,270 --> 00:17:10,799

the the fourth dva

493

00:17:15,270 --> 00:17:13,280

they get ahead tasks 3v3 yeah the tasks

494

00:17:18,549 --> 00:17:15,280

that we deferred from eva 3 the

495

00:17:20,710 --> 00:17:18,559

installation of the 1553 data cable

496

00:17:22,549 --> 00:17:20,720

that will possibly remain a get ahead

497

00:17:24,390 --> 00:17:22,559

for eva4 but there currently are not any

498

00:17:26,309 --> 00:17:24,400

plans to change what's nominally planned

499

00:17:32,230 --> 00:17:26,319

for eva for right now so that timeline

500

00:17:36,789 --> 00:17:34,630

gina cincer abc news i had a question

501
00:17:39,190 --> 00:17:36,799
when someone in new york asked me to ask

502
00:17:41,270 --> 00:17:39,200
this for radio which is just what makes

503
00:17:42,310 --> 00:17:41,280
a space walk so hard we talk about eight

504
00:17:43,830 --> 00:17:42,320
hours and they say well they're out

505
00:17:45,430 --> 00:17:43,840
there floating around in these puffy

506
00:17:47,350 --> 00:17:45,440
marshmallow suits why is that so

507
00:17:49,110 --> 00:17:47,360
difficult would you mind giving us kind

508
00:17:51,270 --> 00:17:49,120
of a definition for our radio audience

509
00:17:52,150 --> 00:17:51,280
please about why why it's difficult oh

510
00:17:53,990 --> 00:17:52,160
wow

511
00:17:55,830 --> 00:17:54,000
uh well i guess so while you are

512
00:17:58,150 --> 00:17:55,840
floating out there in space you are in a

513
00:17:59,990 --> 00:17:58,160

pressurized suit so as you're bending

514

00:18:01,909 --> 00:18:00,000

your fingers you know i think the the

515

00:18:03,350 --> 00:18:01,919

main fatigue issue that crew members

516

00:18:04,710 --> 00:18:03,360

talk about is their hands getting tired

517

00:18:06,549 --> 00:18:04,720

you know your legs aren't getting tired

518

00:18:07,909 --> 00:18:06,559

because you're not walking around your

519

00:18:09,830 --> 00:18:07,919

arms aren't getting too tired but it's

520

00:18:12,549 --> 00:18:09,840

mainly your hair your hands because

521

00:18:13,990 --> 00:18:12,559

you're pressurized to 4.3 psi so you're

522

00:18:16,310 --> 00:18:14,000

actually as you're bending your fingers

523

00:18:17,990 --> 00:18:16,320

you know your natural suit glove wants

524

00:18:19,590 --> 00:18:18,000

to just kind of be outstretched so as

525

00:18:21,029 --> 00:18:19,600

you're bending your fingers to grasp

526

00:18:23,029 --> 00:18:21,039

onto handrails or to hang onto your

527

00:18:24,710 --> 00:18:23,039

pistol grip tool or to perform other

528

00:18:27,430 --> 00:18:24,720

activities you're having to fight

529

00:18:29,029 --> 00:18:27,440

against the pressurization of that suit

530

00:18:30,630 --> 00:18:29,039

so i think that's kind of what what

531

00:18:32,710 --> 00:18:30,640

causes crew members to get most tired

532

00:18:34,950 --> 00:18:32,720

after the after the evas is is the

533

00:18:39,830 --> 00:18:34,960

constant hand fatigue of having to fight

534

00:18:44,710 --> 00:18:42,470

uh rob perlman with collectspace.com um

535

00:18:46,630 --> 00:18:44,720

with regards to the 1553 cable can you

536

00:18:47,990 --> 00:18:46,640

just explain what that does and if you

537

00:18:50,470 --> 00:18:48,000

don't get to it

538

00:18:52,710 --> 00:18:50,480

how important it is for the station

539

00:18:54,390 --> 00:18:52,720

do you want to field that sure it's a

540

00:18:56,230 --> 00:18:54,400

it's essentially the data connection

541

00:18:57,270 --> 00:18:56,240

between the the power data grapple

542

00:18:59,990 --> 00:18:57,280

fixture

543

00:19:01,029 --> 00:19:00,000

and computers in in the us segment that

544

00:19:03,590 --> 00:19:01,039

allow

545

00:19:04,630 --> 00:19:03,600

the robotics officer and mcc or or the

546

00:19:06,710 --> 00:19:04,640

crew

547

00:19:09,590 --> 00:19:06,720

to grapple that pdgf

548

00:19:10,789 --> 00:19:09,600

um on the fgb and then use it as a base

549

00:19:13,909 --> 00:19:10,799

for the arm

550

00:19:16,310 --> 00:19:13,919

so without that 1553 data connection we

551
00:19:18,310 --> 00:19:16,320
can't use that fgb grapple fixture as a

552
00:19:21,669 --> 00:19:18,320
full-blown base i.e

553
00:19:24,150 --> 00:19:21,679
from a from a pdgf on the ux us segment

554
00:19:25,990 --> 00:19:24,160
grapple that fgb pdgf and then ungrapple

555
00:19:28,710 --> 00:19:26,000
on the us side and have a fully

556
00:19:31,350 --> 00:19:28,720
functional arm on that pdgf so before we

557
00:19:32,950 --> 00:19:31,360
use that new grapple fixture as a base

558
00:19:34,789 --> 00:19:32,960
for the robotic arm

559
00:19:39,430 --> 00:19:34,799
there will need to be a subsequent space

560
00:19:41,029 --> 00:19:39,440
walk to connect that 1553 data cable

561
00:19:42,870 --> 00:19:41,039
any other questions here

562
00:19:44,789 --> 00:19:42,880
okay we'll go to the fun bridge marcia

563
00:19:45,909 --> 00:19:44,799

dunn

564

00:19:48,150 --> 00:19:45,919

good morning

565

00:19:49,430 --> 00:19:48,160

i'm wondering

566

00:19:51,190 --> 00:19:49,440

when those

567

00:19:53,350 --> 00:19:51,200

pictures of the

568

00:19:55,750 --> 00:19:53,360

space station shuttle that

569

00:19:56,870 --> 00:19:55,760

landed in kazakhstan when might those be

570

00:19:58,870 --> 00:19:56,880

available

571

00:20:01,350 --> 00:19:58,880

in the world yeah i know the the us

572

00:20:02,789 --> 00:20:01,360

folks in in moscow and the folks who are

573

00:20:04,710 --> 00:20:02,799

at the landing site are working to get

574

00:20:07,029 --> 00:20:04,720

those images transmitted to the united

575

00:20:10,950 --> 00:20:07,039

states i i don't have an update uh today

576

00:20:12,950 --> 00:20:10,960

on on what the expected availability is

577

00:20:13,990 --> 00:20:12,960

oh great thank you and a question for

578

00:20:15,430 --> 00:20:14,000

kylie

579

00:20:16,470 --> 00:20:15,440

are you guys going to how are you going

580

00:20:18,230 --> 00:20:16,480

to

581

00:20:19,990 --> 00:20:18,240

alert people that those are available

582

00:20:22,149 --> 00:20:20,000

will you be sending out a news advisory

583

00:20:23,350 --> 00:20:22,159

or do we just need to keep checking the

584

00:20:24,789 --> 00:20:23,360

website

585

00:20:28,870 --> 00:20:24,799

uh it's expected that they would be

586

00:20:31,669 --> 00:20:28,880

posted on the website at www.nasa.gov

587

00:20:35,510 --> 00:20:31,679

thank you and one last question derek um

588

00:20:38,149 --> 00:20:35,520

how much time passed um yesterday

589

00:20:40,789 --> 00:20:38,159

without with the lack of all the payload

590

00:20:42,470 --> 00:20:40,799

data et cetera um

591

00:20:43,669 --> 00:20:42,480

you know with with the uh

592

00:20:45,510 --> 00:20:43,679

with the breakdown that occurred how

593

00:20:47,350 --> 00:20:45,520

many hours did all told before it was

594

00:20:49,430 --> 00:20:47,360

fixed

595

00:20:51,270 --> 00:20:49,440

see i it it's

596

00:20:53,029 --> 00:20:51,280

the failure occurred like

597

00:20:55,669 --> 00:20:53,039

right at the beginning of my hand over

598

00:20:56,549 --> 00:20:55,679

to to dina the orbit three team and then

599

00:20:58,630 --> 00:20:56,559

it was

600

00:21:00,390 --> 00:20:58,640

the repair happened early on the next

601
00:21:02,950 --> 00:21:00,400
shift so i would estimate on the order

602
00:21:04,870 --> 00:21:02,960
of eight to nine hours thank you that's

603
00:21:09,590 --> 00:21:04,880
all for me

604
00:21:14,630 --> 00:21:13,430
thanks todd halverson of florida today

605
00:21:16,070 --> 00:21:14,640
i was

606
00:21:19,029 --> 00:21:16,080
wondering if you might be able to tell

607
00:21:21,830 --> 00:21:19,039
us what the earliest time those uh

608
00:21:24,630 --> 00:21:21,840
photos from the high-flying photo

609
00:21:27,350 --> 00:21:24,640
opportunity might be available um might

610
00:21:28,950 --> 00:21:27,360
they be available before the

611
00:21:33,750 --> 00:21:28,960
business today or in time for

612
00:21:38,149 --> 00:21:35,830
i think it's a matter of days as they're

613
00:21:42,630 --> 00:21:38,159

recovered as part of the cargo that was

614

00:21:47,750 --> 00:21:45,270

okay and so then kyla you do not expect

615

00:21:50,149 --> 00:21:47,760

that they would be available uh today

616

00:21:55,110 --> 00:21:50,159

not that we are aware of

617

00:22:01,029 --> 00:21:58,470

okay and bill harwood then

618

00:22:02,710 --> 00:22:01,039

um yeah thank you a question for alison

619

00:22:03,590 --> 00:22:02,720

for those of us who timelined these

620

00:22:05,590 --> 00:22:03,600

things

621

00:22:08,149 --> 00:22:05,600

does the antenna install simply fit in

622

00:22:09,430 --> 00:22:08,159

the block where the 1553 cable had been

623

00:22:11,350 --> 00:22:09,440

and i want to make sure the only other

624

00:22:12,870 --> 00:22:11,360

changes for the stp

625

00:22:14,870 --> 00:22:12,880

visible light photography you guys are

626
00:22:16,310 --> 00:22:14,880
going to you're just swapping an ir but

627
00:22:17,909 --> 00:22:16,320
the timing of those events then would

628
00:22:19,430 --> 00:22:17,919
stay the same

629
00:22:22,390 --> 00:22:19,440
right and so the timeline does look

630
00:22:25,029 --> 00:22:22,400
slightly different the 1553 data cable

631
00:22:27,110 --> 00:22:25,039
task was timelined for 45 minutes and so

632
00:22:28,950 --> 00:22:27,120
the the lab work that we insert in there

633
00:22:30,950 --> 00:22:28,960
takes about an hour

634
00:22:33,510 --> 00:22:30,960
so what we did was we just shifted all

635
00:22:35,510 --> 00:22:33,520
the tasks that come after that lab ewc

636
00:22:38,070 --> 00:22:35,520
work down a little bit and this is what

637
00:22:41,190 --> 00:22:38,080
caused us to defer in addition to the

638
00:22:43,190 --> 00:22:41,200

1553 data cable we also deferred on

639

00:22:44,710 --> 00:22:43,200

spanky's timeline i mentioned that

640

00:22:46,789 --> 00:22:44,720

restoring of the tools in the airlock

641

00:22:48,470 --> 00:22:46,799

toolbox we deferred that task to a

642

00:22:50,310 --> 00:22:48,480

get-ahead so that allowed us to shift

643

00:22:51,510 --> 00:22:50,320

all the activities down we're also

644

00:22:53,190 --> 00:22:51,520

showing a

645

00:22:55,270 --> 00:22:53,200

slightly longer time we had 30 minutes

646

00:22:56,870 --> 00:22:55,280

for the still photos of stph3 and now

647

00:22:58,230 --> 00:22:56,880

we're showing 40 minutes

648

00:23:00,789 --> 00:22:58,240

uh

649

00:23:02,470 --> 00:23:00,799

for the activity at the end of the eva

650

00:23:04,710 --> 00:23:02,480

the thruster photo

651
00:23:07,029 --> 00:23:04,720
does that go

652
00:23:09,350 --> 00:23:07,039
we it's it's still we still have the

653
00:23:11,990 --> 00:23:09,360
pdgf and fgb thruster photos slash

654
00:23:14,630 --> 00:23:12,000
cleanup shown for 15 minutes i i don't

655
00:23:17,029 --> 00:23:14,640
have a hand at what it was before we do

656
00:23:18,549 --> 00:23:17,039
have the photos as a opportunity as time

657
00:23:20,070 --> 00:23:18,559
permits since drew will have the camera

658
00:23:21,750 --> 00:23:20,080
with him actually taking those photos

659
00:23:23,750 --> 00:23:21,760
will only take a couple minutes but the

660
00:23:25,510 --> 00:23:23,760
main the main purpose of that task was

661
00:23:27,029 --> 00:23:25,520
to help clean up the work site put all

662
00:23:29,510 --> 00:23:27,039
the tools back inside the tool bags and

663
00:23:31,990 --> 00:23:29,520

get them back to the airlock

664

00:23:33,190 --> 00:23:32,000

thanks and one question for derek is uh

665

00:23:35,110 --> 00:23:33,200

where do you guys stand today on

666

00:23:37,190 --> 00:23:35,120

discussions rather not to add a date of

667

00:23:39,909 --> 00:23:37,200

this mission

668

00:23:42,310 --> 00:23:39,919

as i was walking in the briefing bill

669

00:23:44,710 --> 00:23:42,320

what i my understanding is and what was

670

00:23:46,310 --> 00:23:44,720

announced to immt is that the decision

671

00:23:53,269 --> 00:23:46,320

has been made by both programs not to

672

00:23:55,830 --> 00:23:54,870

okay that must be all the questions on

673

00:23:57,350 --> 00:23:55,840

the phone bridge do we have any

674

00:23:59,750 --> 00:23:57,360

follow-ups here

675

00:24:03,669 --> 00:24:01,669

phillip sloss with nasa spaceflight.com

676

00:24:05,990 --> 00:24:03,679

again for uh for derek could you give us

677

00:24:08,390 --> 00:24:06,000

uh just a transfer status and i noticed

678

00:24:10,390 --> 00:24:08,400

in the execute package uh sort of

679

00:24:11,590 --> 00:24:10,400

juggling some of the tasks i know they

680

00:24:13,269 --> 00:24:11,600

talked about

681

00:24:15,430 --> 00:24:13,279

uh obviously because the russian crew

682

00:24:17,110 --> 00:24:15,440

members are sleeping not to do atv

683

00:24:18,470 --> 00:24:17,120

unpack today are you still gonna be able

684

00:24:20,149 --> 00:24:18,480

to get to all of that during the

685

00:24:22,870 --> 00:24:20,159

documentation yeah the the mid deck

686

00:24:24,549 --> 00:24:22,880

transfer is going per the plan so we

687

00:24:25,909 --> 00:24:24,559

expect to finish all that i'm i think

688

00:24:29,110 --> 00:24:25,919

we're we're probably an hour or two

689

00:24:31,669 --> 00:24:29,120

ahead on mid deck stuff and we expect to

690

00:24:33,110 --> 00:24:31,679

completely unpack the atv or at least

691

00:24:35,430 --> 00:24:33,120

come very close

692

00:24:40,149 --> 00:24:35,440

by the time endeavor undocks so transfer

693

00:24:43,909 --> 00:24:41,669

with that we'll wrap up this briefing

694

00:24:45,430 --> 00:24:43,919

with a few programming notes the

695

00:24:46,870 --> 00:24:45,440

shuttle crew and rongaran again are

696

00:24:49,430 --> 00:24:46,880

wrapping up their morning on board the

697

00:24:52,070 --> 00:24:49,440

station at 11 a.m then we'll have a

698

00:24:54,789 --> 00:24:52,080

video file from the soyuz landing events

699

00:24:56,630 --> 00:24:54,799

that will air on nasa tv then the flight

700

00:24:59,350 --> 00:24:56,640

day nine highlights will begin airing at

701

00:25:01,110 --> 00:24:59,360

12 pm central time and we have an update

702

00:25:03,350 --> 00:25:01,120

from the international space station

703

00:25:07,110 --> 00:25:03,360

flight director on console uh in mission

704

00:25:09,830 --> 00:25:07,120

control at 4 45 pm and that crew then is

705

00:25:11,830 --> 00:25:09,840

scheduled to wake in at 6 56 pm and

706

00:25:13,350 --> 00:25:11,840

begin the preparations with that aisle

707

00:25:16,149 --> 00:25:13,360

activity to get ready for the third

708

00:25:17,110 --> 00:25:16,159

spacewalk which is set to begin at 12 46

709

00:25:18,230 --> 00:25:17,120

a.m