



1
00:00:04,390 --> 00:00:02,470
good morning discovery

2
00:00:06,789 --> 00:00:04,400
that song comes to you from your

3
00:00:08,470 --> 00:00:06,799
families it's for the whole crew

4
00:00:10,870 --> 00:00:08,480
they do want you back here in texas

5
00:00:12,709 --> 00:00:10,880
we're looking forward to seeing you back

6
00:00:16,870 --> 00:00:12,719
on planet earth when your mission is

7
00:00:21,910 --> 00:00:19,830
good morning mike and uh and uh thanks

8
00:00:24,310 --> 00:00:21,920
to our families who have really really

9
00:00:26,390 --> 00:00:24,320
supported us from the beginning of uh

10
00:00:27,670 --> 00:00:26,400
are being assigned all the way uh

11
00:00:29,189 --> 00:00:27,680
through this mission we really

12
00:01:46,149 --> 00:00:29,199
appreciate them and uh really look

13
00:01:51,109 --> 00:01:48,230

yeah just a note the the osos probably

14

00:01:53,190 --> 00:01:51,119

know this already but the

15

00:01:55,429 --> 00:01:53,200

fasteners on the two inch pin assemblies

16

00:01:57,510 --> 00:01:55,439

on the upper plate there's supposed to

17

00:02:00,789 --> 00:01:57,520

be three on each of four

18

00:02:03,910 --> 00:02:00,799

um they're pretty scarce there's

19

00:02:06,709 --> 00:02:03,920

two of them on the upper two the ones

20

00:02:08,389 --> 00:02:06,719

facing me and there's one of them on the

21

00:02:09,270 --> 00:02:08,399

back two

22

00:02:10,949 --> 00:02:09,280

so

23

00:02:12,470 --> 00:02:10,959

just to let you know

24

00:02:14,150 --> 00:02:12,480

and i think that's probably enough to

25

00:02:18,309 --> 00:02:14,160

hold it but not quite as many as

26

00:02:22,550 --> 00:02:19,670

meanwhile work continues inside the

27

00:02:24,070 --> 00:02:22,560

permanent multi-purpose module the crew

28

00:02:26,390 --> 00:02:24,080

has been moving uh different items

29

00:02:29,270 --> 00:02:26,400

across the hatchway out of the pmm

30

00:02:31,830 --> 00:02:29,280

into the station including uh these uh

31

00:02:33,270 --> 00:02:31,840

what are called zsrs zero storage

32

00:02:34,949 --> 00:02:33,280

stowage racks

33

00:02:36,949 --> 00:02:34,959

they are basically uh

34

00:02:39,350 --> 00:02:36,959

collapsible fabric

35

00:02:40,550 --> 00:02:39,360

stowage racks that are all folded up

36

00:02:42,630 --> 00:02:40,560

nice and neat and once they come across

37

00:02:43,990 --> 00:02:42,640

the hatch the crew can actually unleash

38

00:02:45,670 --> 00:02:44,000

them and let them

39

00:02:47,990 --> 00:02:45,680

expand out and stow different things

40

00:02:50,150 --> 00:02:48,000

inside of them

41

00:02:51,430 --> 00:02:50,160

there's also quite a bit of big cargo

42

00:02:52,470 --> 00:02:51,440

bags as you can see there that they're

43

00:02:54,309 --> 00:02:52,480

going to be

44

00:02:55,589 --> 00:02:54,319

reconfiguring inside there they have to

45

00:02:57,670 --> 00:02:55,599

take a lot of

46

00:02:59,830 --> 00:02:57,680

launch straps off of the cargo that's

47

00:04:04,390 --> 00:02:59,840

inside there and go ahead and move it

48

00:04:35,590 --> 00:04:05,429

anything else while i'm on board

49

00:04:39,510 --> 00:04:38,150

and houston on one the asu is working

50

00:05:53,270 --> 00:04:39,520

now i don't know if you want to change

51
00:05:58,309 --> 00:05:55,909
using them too for the ogs hey hal i i

52
00:05:59,990 --> 00:05:58,319
prefer to put that right access panel

53
00:06:02,230 --> 00:06:00,000
back on when i

54
00:06:03,990 --> 00:06:02,240
disconnect all of this stuff

55
00:06:12,309 --> 00:06:04,000
just so i'm not rotating a rack with

56
00:06:12,319 --> 00:06:23,670
okay we're discussing

57
00:06:27,029 --> 00:06:25,270
i'm gonna have to leave this door open

58
00:09:30,230 --> 00:06:27,039
anyway there's no way i can close the

59
00:09:30,240 --> 00:09:39,990
and houston on uh space to ground one

60
00:09:44,790 --> 00:09:42,310
yeah i didn't see the part where i

61
00:09:47,030 --> 00:09:44,800
actually connect the oga filter the heat

62
00:09:49,910 --> 00:09:47,040
exchanger jumper

63
00:09:52,150 --> 00:09:49,920

that to the three micron filters so i

64

00:09:53,829 --> 00:09:52,160

have two ends of this connected and i

65

00:09:56,310 --> 00:09:53,839

just need to connect them in the middle

66

00:09:59,110 --> 00:09:56,320

basically i just didn't see that step so

67

00:10:00,870 --> 00:09:59,120

i'll just connect them up if you concur

68

00:10:12,710 --> 00:10:00,880

and then that'll complete us through

69

00:10:17,190 --> 00:10:15,670

use it onto the filters installed and

70

00:10:19,670 --> 00:10:17,200

i think they're getting a good position

71

00:10:23,910 --> 00:10:19,680

here strain relief wise so you have a go

72

00:10:49,430 --> 00:10:26,310

okay very good then scott and we'll call

73

00:10:53,750 --> 00:10:51,750

hal getzelman the off-going

74

00:10:55,910 --> 00:10:53,760

capcom and sitting to his left to stand

75

00:10:57,750 --> 00:10:55,920

love the oncoming capcom

76

00:11:00,710 --> 00:10:57,760

the team is working very closely with

77

00:11:02,389 --> 00:11:00,720

the expedition 26 and sts-133 crews

78

00:11:04,870 --> 00:11:02,399

onboard the station today

79

00:11:06,470 --> 00:11:04,880

as a work continues in several different

80

00:11:08,710 --> 00:11:06,480

places inside the station the carbon

81

00:11:10,069 --> 00:11:08,720

dioxide removal assembly

82

00:11:12,230 --> 00:11:10,079

is being worked on today inside the

83

00:11:14,389 --> 00:11:12,240

destiny laboratory

84

00:11:16,310 --> 00:11:14,399

they are taking care of a short that was

85

00:11:18,389 --> 00:11:16,320

seen in one of the heating elements as

86

00:11:20,790 --> 00:11:18,399

part of that uh system but you see mike

87

00:11:22,550 --> 00:11:20,800

barrett there and paulo our intention

88

00:11:24,230 --> 00:11:22,560

with table and the crew is continuing to

89

00:11:26,150 --> 00:11:24,240

work inside the permanent multi-purpose

90

00:11:28,949 --> 00:11:26,160

module getting all the cargo unstowed

91

00:11:32,389 --> 00:11:28,959

out of that uh only record those as you

92

00:11:34,630 --> 00:11:32,399

can see the pmm is becoming more open as

93

00:11:36,870 --> 00:11:34,640

the day goes on as this cargo gets moved

94

00:11:38,069 --> 00:11:36,880

across the hatchway and situated inside

95

00:11:39,350 --> 00:11:38,079

the station

96

00:11:41,110 --> 00:11:39,360

and that's if you want to look in

97

00:11:44,710 --> 00:11:41,120

message 87

98

00:11:47,829 --> 00:11:44,720

um that's a message 965 i think for you

99

00:11:50,629 --> 00:11:47,839

guys it's items

100

00:11:52,550 --> 00:11:50,639

uh looks like

101
00:11:54,150 --> 00:11:52,560
oh what is it

102
00:11:58,150 --> 00:11:54,160
hang on

103
00:12:07,190 --> 00:12:00,790
it's the rfta consolidation and relocate

104
00:12:11,110 --> 00:12:09,750
he put a filter in there that helps keep

105
00:12:12,870 --> 00:12:11,120
the water pure

106
00:12:15,269 --> 00:12:12,880
a system uses water because obviously

107
00:12:17,670 --> 00:12:15,279
water is made of hydrogen and oxygen

108
00:12:19,110 --> 00:12:17,680
it uses electrolysis

109
00:12:21,110 --> 00:12:19,120
which is passing an electrical current

110
00:12:22,870 --> 00:12:21,120
through that water to split the water

111
00:12:25,750 --> 00:12:22,880
into its individual

112
00:12:27,910 --> 00:12:25,760
hydrogen portion and its oxygen the

113
00:12:30,069 --> 00:12:27,920

hydrogen is dumped overboard the oxygen

114

00:12:31,430 --> 00:12:30,079

is used to pump into the air

115

00:12:35,269 --> 00:12:31,440

of the station for the crew members to

116

00:12:38,790 --> 00:12:37,030

but this is a look inside the permanent

117

00:12:40,550 --> 00:12:38,800

multi-purpose module the crew has been

118

00:12:41,750 --> 00:12:40,560

very busy getting everything as you can

119

00:12:43,590 --> 00:12:41,760

see it's sort of

120

00:12:45,110 --> 00:12:43,600

in a disarray now with all the different

121

00:12:46,870 --> 00:12:45,120

cargo floating around

122

00:12:49,269 --> 00:12:46,880

they've been unstrapping the launch

123

00:12:53,990 --> 00:12:49,279

straps from all the big pieces that are

124

00:12:56,470 --> 00:12:55,430

the ground teams here in houston

125

00:12:58,310 --> 00:12:56,480

basically

126

00:13:00,949 --> 00:12:58,320

uh gave the crew members

127

00:13:02,069 --> 00:13:00,959

a long list of menu items saying

128

00:13:04,069 --> 00:13:02,079

you know basically here's everything you

129

00:13:05,269 --> 00:13:04,079

can work on today and the amount of time

130

00:13:06,550 --> 00:13:05,279

that it would take

131

00:13:09,509 --> 00:13:06,560

for them to do those so the crew is

132

00:13:15,350 --> 00:13:09,519

making steady work of each of those

133

00:13:18,870 --> 00:13:17,430

but everything on track for today the uh

134

00:13:21,590 --> 00:13:18,880

the crew while

135

00:13:23,990 --> 00:13:21,600

uh

136

00:13:26,069 --> 00:13:24,000

enjoying some off-duty time yesterday

137

00:13:27,750 --> 00:13:26,079

they have been busy today

138

00:13:29,110 --> 00:13:27,760

working all these tasks getting

139

00:14:36,069 --> 00:13:29,120

everything taken care of everything's

140

00:14:41,509 --> 00:14:40,310

completed step 8 checks on table 5 and 6

141

00:14:45,990 --> 00:14:41,519

all

142

00:14:55,430 --> 00:14:48,150

copy good checks and tables five and six

143

00:15:00,629 --> 00:14:57,269

the crew has been very busy today taking

144

00:15:02,389 --> 00:15:00,639

uh quite a bit of time to

145

00:15:05,750 --> 00:15:02,399

get all the cargo and other items and

146

00:15:07,829 --> 00:15:05,760

experiment equipment and other

147

00:15:09,189 --> 00:15:07,839

stowage racks outside of this new

148

00:15:10,629 --> 00:15:09,199

addition to the international space

149

00:15:15,430 --> 00:15:10,639

station there's katie coleman floating

150

00:15:15,440 --> 00:15:18,710

yeah crew is

151
00:15:21,990 --> 00:15:20,550
the crew is wrapping up their lunch time

152
00:15:33,110 --> 00:15:22,000
now and they're gonna get back to this

153
00:15:37,189 --> 00:15:35,189
the crew also has some exercise sessions

154
00:15:38,829 --> 00:15:37,199
this afternoon

155
00:15:51,110 --> 00:15:38,839
and they will wrap up their

156
00:15:54,550 --> 00:15:52,870
this is mission control houston parts of

157
00:15:55,910 --> 00:15:54,560
south america and central america coming

158
00:15:57,030 --> 00:15:55,920
into view now down below shuttle

159
00:16:00,389 --> 00:15:57,040
discovery

160
00:16:02,470 --> 00:16:00,399
i only transferred items 21 through 26

161
00:16:06,949 --> 00:16:02,480
because 19 and 20 have already been used

162
00:16:12,150 --> 00:16:09,829
okay we paul we copy uh

163
00:16:14,790 --> 00:16:12,160

the atom 1.1 and yes indeed we still owe

164

00:16:16,629 --> 00:16:14,800

you an answer on the host stand by let

165

00:16:22,550 --> 00:16:16,639

me let me check and see if that answers

166

00:16:22,560 --> 00:16:43,910

station houston 2 for paolo atv stowage

167

00:16:48,069 --> 00:16:46,470

this is the view from 217 miles above

168

00:16:49,990 --> 00:16:48,079

the pacific ocean

169

00:16:51,430 --> 00:16:50,000

the international space station and

170

00:16:52,949 --> 00:16:51,440

shuttle endeavour

171

00:16:55,670 --> 00:16:52,959

just about to

172

00:16:57,590 --> 00:16:55,680

cross the coast central america

173

00:16:59,430 --> 00:16:57,600

i'm going to uh

174

00:17:01,590 --> 00:16:59,440

of course is going to take them

175

00:17:02,949 --> 00:17:01,600

across southern mexico and the yucatan

176

00:17:05,189 --> 00:17:02,959

peninsula

177

00:17:07,110 --> 00:17:05,199

then out over the caribbean the gulf of

178

00:17:08,549 --> 00:17:07,120

mexico

179

00:17:09,669 --> 00:17:08,559

and another uh

180

00:17:13,590 --> 00:17:09,679

overflight

181

00:17:14,870 --> 00:17:13,600

of the kennedy space center launch site

182

00:17:16,710 --> 00:17:14,880

a couple of minutes ago shuttle

183

00:17:20,150 --> 00:17:16,720

commander steve lindsey

184

00:17:22,150 --> 00:17:20,160

provided a status report on their uh

185

00:17:25,350 --> 00:17:22,160

structural work inside the permanent

186

00:17:30,830 --> 00:17:27,829

where two of the resupply stowage racks

187

00:17:36,710 --> 00:17:33,350

dismantled they're moving on to number

188

00:17:39,669 --> 00:17:36,720

three and with number four still to come

189

00:17:41,830 --> 00:17:39,679

the operations support officer

190

00:17:43,190 --> 00:17:41,840

expressing the belief to uh

191

00:17:45,830 --> 00:17:43,200

flight director that they will get

192

00:17:49,510 --> 00:17:45,840

through all four of these

193

00:17:51,909 --> 00:17:49,520

rsp dismantlings today

194

00:17:54,549 --> 00:17:51,919

that hardware to be stowed inside the

195

00:17:56,470 --> 00:17:54,559

japanese cargo ship konatori 2

196

00:18:08,230 --> 00:17:56,480

for disposal when it's on birth from the

197

00:18:08,240 --> 00:18:11,350

go ahead

198

00:18:15,110 --> 00:18:12,830

yes sir try to clear up some of the

199

00:18:16,950 --> 00:18:15,120

confusion we're referring to the ports

200

00:18:18,310 --> 00:18:16,960

where you removed

201
00:18:20,390 --> 00:18:18,320
the tape from

202
00:18:21,909 --> 00:18:20,400
yesterday when you were changing out the

203
00:18:23,110 --> 00:18:21,919
sample and then replacing it in the

204
00:18:25,750 --> 00:18:23,120
sample kit

205
00:18:27,750 --> 00:18:25,760
these are the ports on the sample slide

206
00:18:29,669 --> 00:18:27,760
and they should be pointed toward the

207
00:18:31,110 --> 00:18:29,679
center when you reinstall and we're

208
00:18:36,789 --> 00:18:31,120
hoping that you can get those installed

209
00:18:42,470 --> 00:18:39,270
i think now i understand the center of

210
00:18:43,669 --> 00:18:42,480
the box of the sample container okay

211
00:18:47,510 --> 00:18:43,679
um

212
00:18:49,110 --> 00:18:47,520
yeah i i saw i seems to remember that i

213
00:18:51,590 --> 00:18:49,120

saw that it was a little bit larger than

214

00:18:53,590 --> 00:18:51,600

the the one on the left one when i tried

215

00:18:55,750 --> 00:18:53,600

to do it it was already late because the

216

00:18:57,669 --> 00:18:55,760

the tape was wrinkled so i will try

217

00:18:59,830 --> 00:18:57,679

today to start from that side and see if

218

00:19:01,510 --> 00:18:59,840

it goes inside if not it's not a problem

219

00:19:03,110 --> 00:19:01,520

i think i can remove the tape again no

220

00:19:05,270 --> 00:19:03,120

problem

221

00:19:08,950 --> 00:19:05,280

okay the delta is in step 1.1 of that

222

00:19:11,190 --> 00:19:08,960

procedure it has you check the a31p vsw2

223

00:19:13,430 --> 00:19:11,200

and vsw3 power

224

00:19:15,190 --> 00:19:13,440

that is all of the powers that we want

225

00:19:17,990 --> 00:19:15,200

you to check are off

226

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

the sscr power should stay on

227

00:19:27,590 --> 00:19:19,600

and we need it to stay that way until

228

00:19:35,669 --> 00:19:31,830

so jacob on step 1.1 ssc i power should

229

00:19:37,990 --> 00:19:35,679

stay on the rest as per procedure

230

00:19:42,150 --> 00:19:38,000

and that's sscr's and romeo power should

231

00:19:42,160 --> 00:19:45,750

copy sscr

232

00:19:50,390 --> 00:19:47,430

in the last few minutes we've heard from

233

00:19:53,750 --> 00:19:50,400

mission specialist mike barrett that the

234

00:19:55,270 --> 00:19:53,760

sidra ops have been concluded and that's

235

00:19:57,350 --> 00:19:55,280

a go for the ground to try to get that

236

00:19:59,029 --> 00:19:57,360

powered up

237

00:20:01,270 --> 00:19:59,039

scott kelly has been given a go to

238

00:20:04,710 --> 00:20:01,280

proceed with installing the remediation

239

00:20:06,950 --> 00:20:04,720

adapter in the oxygen generation system

240

00:20:09,590 --> 00:20:06,960

and this camera view showing us station

241

00:20:11,350 --> 00:20:09,600

commander scott kelly at the oxygen

242

00:20:12,390 --> 00:20:11,360

generation system rack

243

00:20:13,750 --> 00:20:12,400

just heard

244

00:20:16,310 --> 00:20:13,760

station

245

00:20:18,630 --> 00:20:16,320

capcom stan love

246

00:20:20,230 --> 00:20:18,640

explain to the commander that

247

00:20:22,230 --> 00:20:20,240

teams are pleased with the work up to

248

00:20:23,909 --> 00:20:22,240

this point and although we did get

249

00:20:27,029 --> 00:20:23,919

behind because of some unexpected

250

00:20:29,029 --> 00:20:27,039

restarts early in the day

251
00:20:31,430 --> 00:20:29,039
but the situat the system is in a good

252
00:20:35,270 --> 00:20:31,440
configuration right now so that the the

253
00:20:37,430 --> 00:20:35,280
ground can continue its work uh

254
00:21:05,190 --> 00:20:37,440
verifying the the operations of the

255
00:21:09,270 --> 00:21:06,870
the view is of the southern baja

256
00:21:11,270 --> 00:21:09,280
california

257
00:21:35,270 --> 00:21:11,280
and now the mainland

258
00:21:39,750 --> 00:21:36,950
discovery and the international space

259
00:21:42,870 --> 00:21:39,760
station are now over the pacific

260
00:21:48,390 --> 00:21:46,310
across the coast uh

261
00:21:53,029 --> 00:21:48,400
roughly the

262
00:22:01,029 --> 00:21:55,110
currently uh over

263
00:22:05,830 --> 00:22:03,590

and heading to the northeast