
Center

1
00:00:06,950 --> 00:00:05,110
good evening and welcome to our sts-133

2
00:00:08,710 --> 00:00:06,960
mission status briefing

3
00:00:10,470 --> 00:00:08,720
with us tonight we're happy again to

4
00:00:12,629 --> 00:00:10,480
have the lead flight director for the

5
00:00:15,350 --> 00:00:12,639
international space station control team

6
00:00:17,590 --> 00:00:15,360
royce renfrew and the lead space walking

7
00:00:19,670 --> 00:00:17,600
officer art thomason with us we'll start

8
00:00:21,029 --> 00:00:19,680
out as usual with some opening comments

9
00:00:23,429 --> 00:00:21,039
from the two gentlemen and then we'll

10
00:00:25,029 --> 00:00:23,439
move on to your questions royce

11
00:00:26,230 --> 00:00:25,039
thanks sir so

12
00:00:29,429 --> 00:00:26,240
another

13
00:00:31,349 --> 00:00:29,439

excellent day on orbit for the 133 uf5

14
00:00:33,510 --> 00:00:31,359
team executing the

15
00:00:35,110 --> 00:00:33,520
second eva of the mission i was i was

16
00:00:36,709 --> 00:00:35,120
very pleased at where we got to with

17
00:00:38,549 --> 00:00:36,719
this eva we

18
00:00:40,790 --> 00:00:38,559
we got through all of our nominal

19
00:00:42,229 --> 00:00:40,800
activities and and knocked off a whole

20
00:00:43,670 --> 00:00:42,239
bunch of get-aheads that we were hoping

21
00:00:46,069 --> 00:00:43,680
to be able to do on this mission i'll

22
00:00:48,229 --> 00:00:46,079
let art give you all the all the details

23
00:00:50,950 --> 00:00:48,239
of the activities that we did

24
00:00:52,709 --> 00:00:50,960
but i was very pleased with with where

25
00:00:53,830 --> 00:00:52,719
the where we got to at the end of the

26
00:00:57,830 --> 00:00:53,840
day

27
00:01:00,470 --> 00:00:57,840
the schedule because we had a problem

28
00:01:01,590 --> 00:01:00,480
with bowen's suit with a seal in one of

29
00:01:03,670 --> 00:01:01,600
his

30
00:01:06,070 --> 00:01:03,680
bio canisters and we

31
00:01:07,990 --> 00:01:06,080
did a quick ifm in the airlock there

32
00:01:10,390 --> 00:01:08,000
with mike barrett and paulo

33
00:01:12,710 --> 00:01:10,400
replace that seal and put that back in

34
00:01:14,230 --> 00:01:12,720
got a good leak check got both crew out

35
00:01:15,270 --> 00:01:14,240
the door

36
00:01:17,590 --> 00:01:15,280
it was

37
00:01:19,910 --> 00:01:17,600
another outstanding job again by mike

38
00:01:22,550 --> 00:01:19,920

barrett and and scott kelly operating

39
00:01:24,710 --> 00:01:22,560
the arm with steve bowen riding it for

40
00:01:27,510 --> 00:01:24,720
the majority of the eva

41
00:01:29,749 --> 00:01:27,520
and we ended the mission with the uh we

42
00:01:32,310 --> 00:01:29,759
ended the day rather with the big arm

43
00:01:34,469 --> 00:01:32,320
the ssrms in the uh

44
00:01:36,069 --> 00:01:34,479
in the undock config which is a real

45
00:01:38,469 --> 00:01:36,079
milestone for me because that means

46
00:01:41,510 --> 00:01:38,479
we're essentially done with all of the

47
00:01:43,990 --> 00:01:41,520
space station robotics for

48
00:01:45,749 --> 00:01:44,000
for this mission obviously after

49
00:01:47,830 --> 00:01:45,759
discovery undocks we still have a couple

50
00:01:50,469 --> 00:01:47,840
more surveys to do with the shuttle arm

51
00:01:53,030 --> 00:01:50,479
on their way in but as far as big arm

52
00:01:54,950 --> 00:01:53,040
ops are concerned we're done with that

53
00:01:56,709 --> 00:01:54,960
we had a little bit also of a hiccup in

54
00:01:59,109 --> 00:01:56,719
at the end of the mission with

55
00:02:02,230 --> 00:01:59,119
al drew's helmet cam his helmet lights

56
00:02:03,990 --> 00:02:02,240
came off the top of his emu

57
00:02:05,830 --> 00:02:04,000
we got steve over there to help try to

58
00:02:07,910 --> 00:02:05,840
put that back on we spent a little bit

59
00:02:09,830 --> 00:02:07,920
of time troubleshooting that we were

60
00:02:12,390 --> 00:02:09,840
almost at the end of the activities for

61
00:02:14,550 --> 00:02:12,400
both crew anyway so we made the decision

62
00:02:15,670 --> 00:02:14,560
just to tether the helmet and the helmet

63
00:02:17,750 --> 00:02:15,680

lights to

64
00:02:19,430 --> 00:02:17,760
al's suit and sent him back to the

65
00:02:21,589 --> 00:02:19,440
airlock while steve went out to take

66
00:02:23,589 --> 00:02:21,599
care of one more get-ahead activity and

67
00:02:24,790 --> 00:02:23,599
then we were done with the eva for the

68
00:02:26,790 --> 00:02:24,800
day but

69
00:02:29,589 --> 00:02:26,800
all in all just just a great day on

70
00:02:31,430 --> 00:02:29,599
orbit and an excellent eva 2 for the for

71
00:02:34,309 --> 00:02:31,440
the entire team

72
00:02:36,070 --> 00:02:34,319
inside the iva tests were still pushing

73
00:02:37,670 --> 00:02:36,080
along even while the crew was out

74
00:02:39,670 --> 00:02:37,680
executing the eva

75
00:02:42,229 --> 00:02:39,680
we accomplished all of the tasks that we

76
00:02:44,229 --> 00:02:42,239
hoped to do today with the iba crew

77
00:02:46,550 --> 00:02:44,239
in the permanent multi-purpose module we

78
00:02:47,990 --> 00:02:46,560
essentially cleaned out the aisle way

79
00:02:50,150 --> 00:02:48,000
moved all the stuff that was hanging off

80
00:02:51,910 --> 00:02:50,160
the front of the rack to its uh to its

81
00:02:53,350 --> 00:02:51,920
locations where were temps knowing it

82
00:02:56,390 --> 00:02:53,360
moved a lot of that stuff to the end

83
00:02:59,430 --> 00:02:56,400
cone put it behind the bungee jail there

84
00:03:01,030 --> 00:02:59,440
and also got the the

85
00:03:03,430 --> 00:03:01,040
extra equipment that came up with

86
00:03:05,990 --> 00:03:03,440
robonaut as well as the robonaut torso

87
00:03:08,550 --> 00:03:06,000
in the packing crate it came up in move

88
00:03:11,670 --> 00:03:08,560

that into the lab so then tomorrow on

89
00:03:14,390 --> 00:03:11,680
orbit we're going to go take the

90
00:03:16,229 --> 00:03:14,400
the carbon dioxide removal assembly bed

91
00:03:18,790 --> 00:03:16,239
that we brought up incline

92
00:03:21,350 --> 00:03:18,800
in the mid deck of the orbiter and

93
00:03:23,670 --> 00:03:21,360
installed that in the cdr in the node

94
00:03:25,110 --> 00:03:23,680
three rack because of the plus one day

95
00:03:27,350 --> 00:03:25,120
then we decided to go ahead and take

96
00:03:29,190 --> 00:03:27,360
care of that and we'll activate the node

97
00:03:31,509 --> 00:03:29,200
three seater tomorrow afternoon and let

98
00:03:33,750 --> 00:03:31,519
it run for the rest of the mission

99
00:03:35,190 --> 00:03:33,760
and then the crew also has a half day

100
00:03:38,869 --> 00:03:35,200
off tomorrow

101
00:03:41,270 --> 00:03:38,879
and they'll spend some time relaxing

102
00:03:43,509 --> 00:03:41,280
with all crew members taking a half day

103
00:03:44,789 --> 00:03:43,519
off after their midday meal so like i

104
00:03:46,630 --> 00:03:44,799
said i'll let art give you all the

105
00:03:47,750 --> 00:03:46,640
details of the activities that we did

106
00:03:49,910 --> 00:03:47,760
today so

107
00:03:52,309 --> 00:03:49,920
up to you art

108
00:03:54,949 --> 00:03:52,319
okay thanks royce i'd like to start out

109
00:03:57,750 --> 00:03:54,959
by congratulating steve al nicole and

110
00:04:00,470 --> 00:03:57,760
mike on another outstanding eva today

111
00:04:03,110 --> 00:04:00,480
today's eva was six hours and 14 minutes

112
00:04:05,110 --> 00:04:03,120
in duration that put steve in sixth

113
00:04:06,229 --> 00:04:05,120

place on the all-time list for a time

114
00:04:09,110 --> 00:04:06,239
eva

115
00:04:09,990 --> 00:04:09,120
he now has accumulated 47 hours and 18

116
00:04:11,830 --> 00:04:10,000
minutes

117
00:04:15,030 --> 00:04:11,840
with al's two evas on this mission he's

118
00:04:17,909 --> 00:04:15,040
accumulated 12 hours and 48 minutes

119
00:04:20,150 --> 00:04:17,919
on today's eva we had quite a few small

120
00:04:23,670 --> 00:04:20,160
tasks so there's a lot to keep track of

121
00:04:25,430 --> 00:04:23,680
especially with ssrms going on again

122
00:04:28,710 --> 00:04:25,440
but the crew again did an outstanding

123
00:04:31,030 --> 00:04:28,720
job the first task was to stow an apfr

124
00:04:33,670 --> 00:04:31,040
outside a portable foot restraint this

125
00:04:35,189 --> 00:04:33,680
restraint was brought in on eva1 a heat

126
00:04:36,710 --> 00:04:35,199
shield was removed so it could fit in

127
00:04:38,790 --> 00:04:36,720
all the worksite interfaces on the

128
00:04:40,629 --> 00:04:38,800
outside of station i was instilled

129
00:04:43,749 --> 00:04:40,639
outside of station for use on future

130
00:04:45,350 --> 00:04:43,759
evas from there al headed over to the

131
00:04:47,350 --> 00:04:45,360
failed pump module

132
00:04:49,670 --> 00:04:47,360
he did a quick inspection inspection on

133
00:04:51,110 --> 00:04:49,680
the vent tool and vent tool extender

134
00:04:53,990 --> 00:04:51,120
everything looked great we were

135
00:04:56,710 --> 00:04:54,000
concerned before the cva about a kink in

136
00:04:59,670 --> 00:04:56,720
the line he inspected that there was no

137
00:05:01,830 --> 00:04:59,680
significant damage so we were go to vent

138
00:05:03,029 --> 00:05:01,840

he then threw the bale on the vent tool

139
00:05:04,550 --> 00:05:03,039
which allowed

140
00:05:07,270 --> 00:05:04,560
the 10 pounds of ammonia in the pump

141
00:05:09,830 --> 00:05:07,280
module to be vented

142
00:05:11,670 --> 00:05:09,840
once that was complete he worked on some

143
00:05:13,510 --> 00:05:11,680
troubleshooting for the j-1 electrical

144
00:05:16,150 --> 00:05:13,520
connector that we had trouble with on

145
00:05:18,469 --> 00:05:16,160
eva-1 i was able to get a good mate on

146
00:05:19,510 --> 00:05:18,479
that so no contingency tie-down plan was

147
00:05:21,110 --> 00:05:19,520
required that we're in a good

148
00:05:22,830 --> 00:05:21,120
configuration to now bring this pump

149
00:05:25,430 --> 00:05:22,840
module home on

150
00:05:28,150 --> 00:05:25,440
135 from there al stowed the vent tool

151
00:05:29,990 --> 00:05:28,160
and vent tool extender and a bag that's

152
00:05:32,150 --> 00:05:30,000
now stowed on top of the airlock it's

153
00:05:34,950 --> 00:05:32,160
nominal home

154
00:05:36,629 --> 00:05:34,960
steve meanwhile was working on columbus

155
00:05:38,390 --> 00:05:36,639
where he got on the end of the arm and

156
00:05:40,710 --> 00:05:38,400
picked up the lightweight adapter plate

157
00:05:43,270 --> 00:05:40,720
assembly or lapa this is part of an

158
00:05:45,270 --> 00:05:43,280
experiment that was brought up on 123

159
00:05:47,350 --> 00:05:45,280
now returning home with some of the data

160
00:05:49,430 --> 00:05:47,360
that was collected and now back in the

161
00:05:53,189 --> 00:05:49,440
payload bay thanks to steve on the arm

162
00:05:55,350 --> 00:05:53,199
and mike running the arm

163
00:05:57,430 --> 00:05:55,360

from there al translated out to the

164
00:06:00,230 --> 00:05:57,440
starboard end of the truss where he

165
00:06:02,710 --> 00:06:00,240
removed the expeca mli from express

166
00:06:04,550 --> 00:06:02,720
logistics carrier number four

167
00:06:07,510 --> 00:06:04,560
now that express logistics carrier

168
00:06:09,110 --> 00:06:07,520
number four is on station this piece of

169
00:06:11,670 --> 00:06:09,120
this thermal blanket is no longer

170
00:06:12,790 --> 00:06:11,680
required that was removed while he was

171
00:06:14,230 --> 00:06:12,800
in the area

172
00:06:15,670 --> 00:06:14,240
we had noticed

173
00:06:17,670 --> 00:06:15,680
earlier in the day

174
00:06:19,110 --> 00:06:17,680
that a cover on the camera that they

175
00:06:21,909 --> 00:06:19,120
worked on yesterday where they installed

176
00:06:23,990 --> 00:06:21,919
the lens i had twisted a little bit so

177
00:06:26,309 --> 00:06:24,000
al went over there

178
00:06:28,710 --> 00:06:26,319
using his hand was able to turn that

179
00:06:32,390 --> 00:06:28,720
cover back into place so the v was no

180
00:06:33,430 --> 00:06:32,400
longer obstructed on that camera

181
00:06:35,590 --> 00:06:33,440
from there

182
00:06:39,029 --> 00:06:35,600
steve continued on the arm

183
00:06:40,550 --> 00:06:39,039
he installed the a camera on dexter

184
00:06:42,309 --> 00:06:40,560
this now completes the outfitting for

185
00:06:43,270 --> 00:06:42,319
dexter dexter is equipped with two

186
00:06:45,270 --> 00:06:43,280
cameras

187
00:06:48,150 --> 00:06:45,280
one final task on dexter was for steve

188
00:06:50,150 --> 00:06:48,160

to remove the ep blanket this is an

189
00:06:52,790 --> 00:06:50,160
electronics platform blanket that's no

190
00:06:54,629 --> 00:06:52,800
longer required this was used for launch

191
00:06:55,430 --> 00:06:54,639
and now that spdm is operational on

192
00:06:58,469 --> 00:06:55,440
orbit

193
00:07:00,550 --> 00:06:58,479
this blanket is no longer needed

194
00:07:03,110 --> 00:07:00,560
from there al then removed jettison

195
00:07:05,350 --> 00:07:03,120
stowage bags that were left outside

196
00:07:07,749 --> 00:07:05,360
on the pump module evas when the failed

197
00:07:09,430 --> 00:07:07,759
pump module was changed out these are

198
00:07:10,790 --> 00:07:09,440
used to cover some fluid quick

199
00:07:13,029 --> 00:07:10,800
disconnects

200
00:07:14,629 --> 00:07:13,039
for thermal protection those are then

201
00:07:16,469 --> 00:07:14,639
brought back inside

202
00:07:18,629 --> 00:07:16,479
then al went back to the airlock we had

203
00:07:19,670 --> 00:07:18,639
him get an o2 recharge to charge his

204
00:07:21,510 --> 00:07:19,680
tanks up

205
00:07:23,029 --> 00:07:21,520
to make sure he had plenty of oxygen to

206
00:07:25,430 --> 00:07:23,039
complete all the tasks

207
00:07:26,710 --> 00:07:25,440
on this cva he then headed out to the

208
00:07:28,950 --> 00:07:26,720
port side of the truss where he

209
00:07:30,950 --> 00:07:28,960
installed the p3 cedar light

210
00:07:33,110 --> 00:07:30,960
and this light illuminates the solar

211
00:07:35,350 --> 00:07:33,120
alpha rotary joint

212
00:07:37,189 --> 00:07:35,360
he then headed up and

213
00:07:38,870 --> 00:07:37,199

reinstalled a booty

214
00:07:40,309 --> 00:07:38,880
that had come out of that had come out

215
00:07:42,469 --> 00:07:40,319
of place before

216
00:07:44,950 --> 00:07:42,479
we anticipated that the velcro may be

217
00:07:46,150 --> 00:07:44,960
bad due to atomic oxygen but al was able

218
00:07:47,909 --> 00:07:46,160
to

219
00:07:49,029 --> 00:07:47,919
reconnect the velcro and he did not have

220
00:07:50,629 --> 00:07:49,039
to put any

221
00:07:51,749 --> 00:07:50,639
extra restraints on it to keep it in

222
00:07:53,749 --> 00:07:51,759
place

223
00:07:56,150 --> 00:07:53,759
from there al went on to do some

224
00:07:58,550 --> 00:07:56,160
troubleshooting on the p1 radiator

225
00:08:01,110 --> 00:07:58,560
grapple stow beams these beams still a

226
00:08:02,950 --> 00:08:01,120
grapple fixture that's used to hold the

227
00:08:04,629 --> 00:08:02,960
radiator in case it needs to be removed

228
00:08:06,230 --> 00:08:04,639
and replaced someday

229
00:08:07,749 --> 00:08:06,240
these beams were installed on an earlier

230
00:08:09,749 --> 00:08:07,759
mission and they weren't as secure as we

231
00:08:12,309 --> 00:08:09,759
had liked al went through a series of

232
00:08:14,070 --> 00:08:12,319
troubleshooting steps but in the end it

233
00:08:15,909 --> 00:08:14,080
turned out that by applying higher

234
00:08:18,469 --> 00:08:15,919
torque he was able to get the beams nice

235
00:08:22,790 --> 00:08:20,150
from there i'll translate it over to

236
00:08:24,790 --> 00:08:22,800
node 3 where he removed a thermal

237
00:08:27,189 --> 00:08:24,800
insulation blanket

238
00:08:29,350 --> 00:08:27,199

also no longer required

239
00:08:30,629 --> 00:08:29,360
steve then translated to

240
00:08:33,509 --> 00:08:30,639
dexter

241
00:08:35,350 --> 00:08:33,519
and to the poa and this is a poe is an

242
00:08:37,589 --> 00:08:35,360
end effector that's up on the mobile

243
00:08:40,469 --> 00:08:37,599
transporter in both of those locations

244
00:08:42,389 --> 00:08:40,479
he installed lens covers that protect

245
00:08:44,070 --> 00:08:42,399
these cameras from the plume of visiting

246
00:08:45,350 --> 00:08:44,080
vehicles

247
00:08:47,269 --> 00:08:45,360
from there steve worked a couple of

248
00:08:49,750 --> 00:08:47,279
get-aheads he removed a portable foot

249
00:08:53,030 --> 00:08:49,760
restraint put it in a location that's

250
00:08:55,670 --> 00:08:53,040
preferable for a future mission

251
00:08:56,870 --> 00:08:55,680
um he then headed out to the strela

252
00:08:59,590 --> 00:08:56,880
adapter

253
00:09:01,990 --> 00:08:59,600
this is a russian tool that's relocated

254
00:09:03,269 --> 00:09:02,000
from pma3 over back to the russian

255
00:09:04,870 --> 00:09:03,279
segment

256
00:09:07,190 --> 00:09:04,880
and about that time

257
00:09:10,230 --> 00:09:07,200
when al was finishing up removing

258
00:09:11,829 --> 00:09:10,240
the thermal blanket from node 3. he did

259
00:09:12,550 --> 00:09:11,839
have the issue that royce had mentioned

260
00:09:15,430 --> 00:09:12,560
where

261
00:09:18,310 --> 00:09:15,440
his wvs or wireless video system and

262
00:09:21,030 --> 00:09:18,320
helmet lights became disconnected it was

263
00:09:22,470 --> 00:09:21,040

still connected via the power cable so

264
00:09:24,790 --> 00:09:22,480
steve tried to go over there get it

265
00:09:26,790 --> 00:09:24,800
secured into place it's something that's

266
00:09:28,150 --> 00:09:26,800
extremely difficult to do in the bulky

267
00:09:30,949 --> 00:09:28,160
eva gloves

268
00:09:32,550 --> 00:09:30,959
at that point al tethered it back and we

269
00:09:34,710 --> 00:09:32,560
completed all of our nominal tasks and

270
00:09:36,630 --> 00:09:34,720
then some at that point al translated

271
00:09:38,070 --> 00:09:36,640
back to the airlock we got him in a good

272
00:09:40,389 --> 00:09:38,080
configuration

273
00:09:42,230 --> 00:09:40,399
steve finished up by installing

274
00:09:43,910 --> 00:09:42,240
the strela adapter over on the russian

275
00:09:47,110 --> 00:09:43,920
segment grabbed a bag and both crew

276
00:09:48,310 --> 00:09:47,120
members headed in for another great eva

277
00:09:50,710 --> 00:09:48,320
and with that i'll turn it back over to

278
00:09:51,829 --> 00:09:50,720
the moderator for questions thanks a lot

279
00:09:54,949 --> 00:09:51,839
art

280
00:09:56,630 --> 00:09:54,959
center please remember to state your

281
00:09:58,550 --> 00:09:56,640
name and affiliation before your

282
00:10:00,230 --> 00:09:58,560
question and we do have one reporter on

283
00:10:01,190 --> 00:10:00,240
the phone bridge as well

284
00:10:03,829 --> 00:10:01,200
so

285
00:10:05,829 --> 00:10:03,839
start off with mark

286
00:10:07,990 --> 00:10:05,839
thank you very much uh mark caro for

287
00:10:09,190 --> 00:10:08,000
aviation week and space technology could

288
00:10:13,430 --> 00:10:09,200

you sort of

289
00:10:15,829 --> 00:10:13,440
uh update us on the russian co2

290
00:10:17,030 --> 00:10:15,839
uh repair work and kind of where they

291
00:10:19,269 --> 00:10:17,040
stand and

292
00:10:21,590 --> 00:10:19,279
whether

293
00:10:23,590 --> 00:10:21,600
that plus the cdr operation would have

294
00:10:25,190 --> 00:10:23,600
any impact on the extra day as you see

295
00:10:27,430 --> 00:10:25,200
it now

296
00:10:28,870 --> 00:10:27,440
okay let me let me answer the second

297
00:10:29,750 --> 00:10:28,880
question first

298
00:10:33,590 --> 00:10:29,760
the

299
00:10:35,910 --> 00:10:33,600
piece of equipment called vasduk which

300
00:10:37,910 --> 00:10:35,920
is a essentially a piece of hardware

301
00:10:39,509 --> 00:10:37,920
that scrubs co2 out of the breathable

302
00:10:41,190 --> 00:10:39,519
atmosphere like our

303
00:10:42,790 --> 00:10:41,200
carbon carbon dioxide and removal

304
00:10:43,590 --> 00:10:42,800
assembly the seizure we keep talking

305
00:10:45,350 --> 00:10:43,600
about

306
00:10:46,710 --> 00:10:45,360
so the our russian friends the

307
00:10:48,550 --> 00:10:46,720
cosmonauts have been in the in the

308
00:10:51,509 --> 00:10:48,560
service module for the last couple days

309
00:10:53,910 --> 00:10:51,519
going through a rather extensive uh

310
00:10:55,030 --> 00:10:53,920
in-flight maintenance activity on on vas

311
00:10:56,630 --> 00:10:55,040
duke and

312
00:10:57,670 --> 00:10:56,640
they accomplished all of their tasks

313
00:10:59,829 --> 00:10:57,680

today

314
00:11:02,069 --> 00:10:59,839
and is my expectation that tomorrow

315
00:11:04,310 --> 00:11:02,079
we'll be able to get vosdk back up and

316
00:11:06,790 --> 00:11:04,320
running hopefully it's just about the

317
00:11:09,190 --> 00:11:06,800
same time as we get uh

318
00:11:11,350 --> 00:11:09,200
cdr in node three up and running so

319
00:11:13,350 --> 00:11:11,360
we'll have all of the co2 scrubbing

320
00:11:14,470 --> 00:11:13,360
capability of the iss stack going at the

321
00:11:17,350 --> 00:11:14,480
same time

322
00:11:19,350 --> 00:11:17,360
if for whatever reason we can't get uh

323
00:11:21,190 --> 00:11:19,360
bosduke up and running or if we have

324
00:11:22,630 --> 00:11:21,200
problems getting the note 3 seizure up

325
00:11:23,829 --> 00:11:22,640
and running that will not actually

326
00:11:26,230 --> 00:11:23,839
impact

327
00:11:27,509 --> 00:11:26,240
the plus one day at all we've

328
00:11:30,710 --> 00:11:27,519
plotted it out we've got plenty of

329
00:11:33,509 --> 00:11:30,720
margin for being able to scrub co2

330
00:11:34,870 --> 00:11:33,519
using the shuttle assets and using the

331
00:11:38,310 --> 00:11:34,880
lab cdra

332
00:11:40,630 --> 00:11:38,320
we're also using the medox containers in

333
00:11:43,269 --> 00:11:40,640
the airlock that the crew normally uses

334
00:11:44,870 --> 00:11:43,279
when they're in their eva camp out the

335
00:11:46,389 --> 00:11:44,880
night before an eva when they're when

336
00:11:49,030 --> 00:11:46,399
they're secluded from the rest of the

337
00:11:50,790 --> 00:11:49,040
station we have two medox canisters in

338
00:11:53,110 --> 00:11:50,800

there that scrub the atmosphere for that

339
00:11:54,870 --> 00:11:53,120
volume and what we've been doing in the

340
00:11:56,790 --> 00:11:54,880
interim here while the airlock hatch is

341
00:11:59,350 --> 00:11:56,800
opening is we've inserted medox

342
00:12:02,230 --> 00:11:59,360
canisters in that scrubber to help scrub

343
00:12:04,629 --> 00:12:02,240
the iss atmosphere as well then on top

344
00:12:06,310 --> 00:12:04,639
of that we have lyell canisters that we

345
00:12:08,230 --> 00:12:06,320
can use in the russian segment and we

346
00:12:10,790 --> 00:12:08,240
have oil canisters that we can use in

347
00:12:12,069 --> 00:12:10,800
the u.s segment if we need to but we

348
00:12:14,150 --> 00:12:12,079
shouldn't

349
00:12:16,069 --> 00:12:14,160
so the whether or not vosdo comes up or

350
00:12:17,910 --> 00:12:16,079
whether or not we get cdr up or not

351
00:12:21,110 --> 00:12:17,920
won't actually affect our ability to do

352
00:12:22,629 --> 00:12:21,120
an uh the plus one day

353
00:12:24,550 --> 00:12:22,639
okay

354
00:12:26,470 --> 00:12:24,560
more questions bill

355
00:12:28,949 --> 00:12:26,480
yeah bill hart with cbs for uh royce

356
00:12:30,870 --> 00:12:28,959
just another vastly question um i i

357
00:12:32,710 --> 00:12:30,880
thought y'all they were going to replace

358
00:12:35,030 --> 00:12:32,720
that with some hardware that's

359
00:12:36,389 --> 00:12:35,040
uh what is the long-term plan for vice

360
00:12:38,470 --> 00:12:36,399
duke i know they spent quite a bit of

361
00:12:41,110 --> 00:12:38,480
time trying to get this thing running

362
00:12:43,829 --> 00:12:41,120
um i i actually don't know i'll have to

363
00:12:47,030 --> 00:12:43,839

go look that one up for you what uh

364
00:12:48,150 --> 00:12:47,040
what they're doing now with uh with olig

365
00:12:50,069 --> 00:12:48,160
and alex

366
00:12:51,269 --> 00:12:50,079
is specifically what they've been

367
00:12:53,350 --> 00:12:51,279
trained to do

368
00:12:55,670 --> 00:12:53,360
which is essentially what we're going to

369
00:12:57,190 --> 00:12:55,680
do with the note 3 seizure as far as

370
00:12:58,389 --> 00:12:57,200
it's not a one for one comparison

371
00:13:00,230 --> 00:12:58,399
because they're obviously different

372
00:13:02,550 --> 00:13:00,240
hardware but they're getting they're

373
00:13:04,150 --> 00:13:02,560
essentially working doing an ifm to work

374
00:13:06,949 --> 00:13:04,160
on the pump and they're also trying to

375
00:13:09,750 --> 00:13:06,959
bring up another bed in that to increase

376
00:13:11,990 --> 00:13:09,760
its efficiency uh as far as replacing

377
00:13:13,350 --> 00:13:12,000
bosnic i'll i'll have to look that up

378
00:13:17,670 --> 00:13:13,360
for you because i'm not sure what that

379
00:13:22,710 --> 00:13:20,389
hi robert perlman with collectspace.com

380
00:13:24,629 --> 00:13:22,720
just looking ahead can you update us on

381
00:13:25,990 --> 00:13:24,639
where discovery is with consumables i

382
00:13:27,509 --> 00:13:26,000
know that you've already added the day

383
00:13:29,190 --> 00:13:27,519
are you is there any chance you'd be

384
00:13:32,230 --> 00:13:29,200
looking at another mission extension

385
00:13:34,389 --> 00:13:32,240
another plus one

386
00:13:35,670 --> 00:13:34,399
as far as the consumables on discovery

387
00:13:37,190 --> 00:13:35,680
and i i

388
00:13:38,629 --> 00:13:37,200

you guys keep asking me questions and i

389
00:13:40,550 --> 00:13:38,639
think i should have stopped and asked

390
00:13:42,629 --> 00:13:40,560
that question when before i came over i

391
00:13:44,629 --> 00:13:42,639
know i know discovery has plenty of

392
00:13:47,269 --> 00:13:44,639
consumables for the plus one mission

393
00:13:49,110 --> 00:13:47,279
plus the eon plus two that we normally

394
00:13:50,710 --> 00:13:49,120
keep for being able to deal with uh

395
00:13:52,550 --> 00:13:50,720
weather at ksc

396
00:13:54,550 --> 00:13:52,560
and beyond that i would not be able to

397
00:13:57,189 --> 00:13:54,560
tell you what the consumable status on

398
00:13:58,629 --> 00:13:57,199
on discovery is i'd have to i don't

399
00:14:00,150 --> 00:13:58,639
wanna get quote numbers and then get

400
00:14:02,470 --> 00:14:00,160
them wrong so i'll have to get that

401
00:14:05,430 --> 00:14:02,480
number for you

402
00:14:08,550 --> 00:14:05,440
okay but uh is is there any talk amongst

403
00:14:09,990 --> 00:14:08,560
the team about another extension for for

404
00:14:11,590 --> 00:14:10,000
any reason in terms of staying at the

405
00:14:13,750 --> 00:14:11,600
station longer

406
00:14:16,069 --> 00:14:13,760
you know we we always try to protect for

407
00:14:18,150 --> 00:14:16,079
any docked cases that we might need to

408
00:14:19,990 --> 00:14:18,160
go do but as far as

409
00:14:22,310 --> 00:14:20,000
an additional plus one day there's been

410
00:14:24,150 --> 00:14:22,320
some conversation but i haven't i was

411
00:14:26,310 --> 00:14:24,160
busy with my eva today and i haven't

412
00:14:28,230 --> 00:14:26,320
tracked where that all got and whether

413
00:14:31,990 --> 00:14:28,240

or not we would add another doc day to

414
00:14:37,670 --> 00:14:33,189
gina

415
00:14:39,110 --> 00:14:37,680
about steve's camera i think he went out

416
00:14:42,150 --> 00:14:39,120
the door with it not working and then it

417
00:14:44,069 --> 00:14:42,160
suddenly started working as any clue to

418
00:14:45,670 --> 00:14:44,079
what the issue was yeah that's something

419
00:14:47,750 --> 00:14:45,680
we're still scratching our head about um

420
00:14:51,110 --> 00:14:47,760
this we had the same signature on eva

421
00:14:52,550 --> 00:14:51,120
one uh his wireless video system um

422
00:14:53,829 --> 00:14:52,560
didn't work for the beginning and we did

423
00:14:55,350 --> 00:14:53,839
all the troubleshooting steps that we

424
00:14:57,350 --> 00:14:55,360
could think of and then magically it

425
00:14:58,870 --> 00:14:57,360
started working again around two hours

426
00:15:00,389 --> 00:14:58,880
into the eva and we had the same

427
00:15:02,150 --> 00:15:00,399
scenario today

428
00:15:04,310 --> 00:15:02,160
so not exactly sure what happened there

429
00:15:06,310 --> 00:15:04,320
but uh something we're looking into

430
00:15:11,590 --> 00:15:06,320
thank you

431
00:15:16,550 --> 00:15:13,590
well just to follow up on uh on robert's

432
00:15:18,310 --> 00:15:16,560
question royce if if you did get a day

433
00:15:20,069 --> 00:15:18,320
uh i'm assuming you could put that to

434
00:15:22,150 --> 00:15:20,079
good use with pmm

435
00:15:23,430 --> 00:15:22,160
uh unloading and outfitting i mean that

436
00:15:24,790 --> 00:15:23,440
i would assume that would be what you

437
00:15:25,590 --> 00:15:24,800
would use an extra day for if you got

438
00:15:28,389 --> 00:15:25,600

one

439
00:15:30,470 --> 00:15:28,399
yes absolutely if if we if if that came

440
00:15:32,470 --> 00:15:30,480
to pass we would essentially use it for

441
00:15:34,069 --> 00:15:32,480
the same thing we've used the plus one

442
00:15:36,949 --> 00:15:34,079
day that's been added to the mission for

443
00:15:38,790 --> 00:15:36,959
we would continue to transfer

444
00:15:40,389 --> 00:15:38,800
hardware out of the permanent

445
00:15:41,829 --> 00:15:40,399
multi-purpose module

446
00:15:43,910 --> 00:15:41,839
into the lab strip it out of its

447
00:15:46,629 --> 00:15:43,920
containers get that get all that into

448
00:15:48,389 --> 00:15:46,639
the htv so yes that that's what we would

449
00:15:50,150 --> 00:15:48,399
use it for

450
00:15:52,069 --> 00:15:50,160
okay i'm going to go to the phone bridge

451
00:15:54,230 --> 00:15:52,079
now and we'll see if marcia has a

452
00:15:56,150 --> 00:15:54,240
question marcia can we hear you yes ty

453
00:15:59,509 --> 00:15:56,160
i've got two questions

454
00:16:01,670 --> 00:15:59,519
the cdr in node 3

455
00:16:04,710 --> 00:16:01,680
i i can't remember why it's down to

456
00:16:05,509 --> 00:16:04,720
begin with could you refresh my memory

457
00:16:20,470 --> 00:16:05,519
the

458
00:16:22,150 --> 00:16:20,480
what we call a dash two bed

459
00:16:24,550 --> 00:16:22,160
and the the one that we brought up in

460
00:16:26,629 --> 00:16:24,560
the mid deck on this mission is a dash

461
00:16:27,670 --> 00:16:26,639
three bed and it's really just an

462
00:16:31,269 --> 00:16:27,680
upgrade

463
00:16:33,189 --> 00:16:31,279

but the uh the the dash two beds are uh

464
00:16:35,350 --> 00:16:33,199
getting close to their

465
00:16:37,269 --> 00:16:35,360
uh uh

466
00:16:39,110 --> 00:16:37,279
time on orbit and when we track those

467
00:16:40,470 --> 00:16:39,120
things and they're just like canisters

468
00:16:43,030 --> 00:16:40,480
that you have to change out after you've

469
00:16:45,350 --> 00:16:43,040
used them considerably so the note 3

470
00:16:47,509 --> 00:16:45,360
seizure has we were intending to bring

471
00:16:48,230 --> 00:16:47,519
up a dash three bed and insert it into

472
00:16:55,590 --> 00:16:48,240
the

473
00:16:56,710 --> 00:16:55,600
bed and we were going to put that one in

474
00:16:59,030 --> 00:16:56,720
there as well

475
00:17:00,629 --> 00:16:59,040
uh so what we'll wind up doing tomorrow

476
00:17:03,350 --> 00:17:00,639
is we'll go ahead and insert the dash

477
00:17:05,029 --> 00:17:03,360
three bed that we brought up in 133 into

478
00:17:07,429 --> 00:17:05,039
the note 3 sidra

479
00:17:08,710 --> 00:17:07,439
and run it with a dash 3 bed and a dash

480
00:17:11,029 --> 00:17:08,720
2 bed

481
00:17:12,789 --> 00:17:11,039
to get that up and running tomorrow but

482
00:17:14,309 --> 00:17:12,799
there's actually nothing wrong with it

483
00:17:15,829 --> 00:17:14,319
and there's nothing wrong with the bed

484
00:17:17,429 --> 00:17:15,839
other than it's

485
00:17:19,189 --> 00:17:17,439
it's approaching the time when we should

486
00:17:21,510 --> 00:17:19,199
ought to change it out we'll go ahead

487
00:17:22,949 --> 00:17:21,520
and get that running tomorrow and we'll

488
00:17:24,710 --> 00:17:22,959

probably leave it running until the end

489
00:17:26,789 --> 00:17:24,720
of the mission

490
00:17:28,789 --> 00:17:26,799
great thanks for that explanation and

491
00:17:29,909 --> 00:17:28,799
and now that the second spacewalk is

492
00:17:32,789 --> 00:17:29,919
over

493
00:17:34,549 --> 00:17:32,799
do you feel like both of the major

494
00:17:36,390 --> 00:17:34,559
things have been accomplished on the

495
00:17:40,630 --> 00:17:36,400
shuttle mission and that

496
00:17:42,070 --> 00:17:40,640
it's all downhill from now so to speak

497
00:17:44,230 --> 00:17:42,080
i feel

498
00:17:46,230 --> 00:17:44,240
happy and contented actually i'm a happy

499
00:17:47,909 --> 00:17:46,240
flight director all of our big

500
00:17:50,789 --> 00:17:47,919
objectives for the mission have been

501
00:17:53,270 --> 00:17:50,799
accomplished we've installed the elc

502
00:17:54,390 --> 00:17:53,280
we've installed the pmm and activated it

503
00:17:56,310 --> 00:17:54,400
yesterday

504
00:17:58,070 --> 00:17:56,320
that was that was beautiful to watch all

505
00:17:59,909 --> 00:17:58,080
the robotics and all the

506
00:18:01,190 --> 00:17:59,919
all the structures and mechanisms and

507
00:18:03,029 --> 00:18:01,200
the outfitting and the vegetable

508
00:18:04,710 --> 00:18:03,039
outfitting and that was just great i

509
00:18:06,710 --> 00:18:04,720
loved all that and then

510
00:18:09,110 --> 00:18:06,720
two days ago we conducted the first eva

511
00:18:11,350 --> 00:18:09,120
and that was flawless today we conducted

512
00:18:12,870 --> 00:18:11,360
the second dva of the mission and it was

513
00:18:15,830 --> 00:18:12,880

flawless and we got a whole bunch of

514
00:18:16,870 --> 00:18:15,840
get-aheads and i i was very happy about

515
00:18:19,430 --> 00:18:16,880
that

516
00:18:21,430 --> 00:18:19,440
the the remainder of the mission however

517
00:18:23,750 --> 00:18:21,440
is just as important as all the stuff

518
00:18:25,750 --> 00:18:23,760
we've done especially with the addition

519
00:18:28,470 --> 00:18:25,760
of the plus one data the mission here to

520
00:18:31,029 --> 00:18:28,480
try to get the iss in the best possible

521
00:18:34,390 --> 00:18:31,039
configuration we can get it in

522
00:18:35,909 --> 00:18:34,400
before we 133 has to leave and then htv

523
00:18:38,230 --> 00:18:35,919
has to leave right after that so we

524
00:18:40,950 --> 00:18:38,240
still have a we have a lot of work to do

525
00:18:43,990 --> 00:18:40,960
in front of us it's conceivably not as

526
00:18:45,510 --> 00:18:44,000
glamorous as installing modules and elcs

527
00:18:47,510 --> 00:18:45,520
and doing space walks but it is

528
00:18:50,390 --> 00:18:47,520
absolutely just as important to do all

529
00:18:52,710 --> 00:18:50,400
of those activities that are coming up

530
00:18:54,150 --> 00:18:52,720
coming up for the remainder of the 133

531
00:18:55,510 --> 00:18:54,160
docked mission

532
00:18:57,990 --> 00:18:55,520
thank you that's all

533
00:18:59,110 --> 00:18:58,000
okay do we have any further questions

534
00:19:01,029 --> 00:18:59,120
here bill

535
00:19:02,630 --> 00:19:01,039
a very quick one for royce um at the end

536
00:19:04,310 --> 00:19:02,640
of the cva you called

537
00:19:05,510 --> 00:19:04,320
scott and had a little private talk i

538
00:19:06,950 --> 00:19:05,520

don't suppose you tell us what that was

539
00:19:09,590 --> 00:19:06,960
about

540
00:19:11,510 --> 00:19:09,600
sure uh i just actually wanted to tag up

541
00:19:13,830 --> 00:19:11,520
with my commander because we've been so

542
00:19:15,510 --> 00:19:13,840
busy we've been so busy recently i

543
00:19:17,590 --> 00:19:15,520
haven't had a chance to talk to him and

544
00:19:19,909 --> 00:19:17,600
and i thought this was just a good

545
00:19:22,870 --> 00:19:19,919
opportunity we were getting the crew out

546
00:19:24,630 --> 00:19:22,880
of their emu's and everybody was

547
00:19:26,230 --> 00:19:24,640
pretty much coming into some downtime

548
00:19:27,830 --> 00:19:26,240
and i just took the opportunity to

549
00:19:29,110 --> 00:19:27,840
commandeer the spacecraft so i could

550
00:19:31,270 --> 00:19:29,120
chat with him for a little while just

551
00:19:33,590 --> 00:19:31,280
ask him how everything was going let him

552
00:19:35,590 --> 00:19:33,600
know how happy i was at how the mission

553
00:19:37,110 --> 00:19:35,600
was going and and he was he was very

554
00:19:37,830 --> 00:19:37,120
happy as well and

555
00:19:39,430 --> 00:19:37,840
and

556
00:19:41,110 --> 00:19:39,440
it was excited that the mission was

557
00:19:42,950 --> 00:19:41,120
going as well as it was and that was

558
00:19:45,029 --> 00:19:42,960
really just uh you know

559
00:19:47,350 --> 00:19:45,039
the increment lead flight director

560
00:19:49,190 --> 00:19:47,360
michael ammers talks to him every every

561
00:19:50,630 --> 00:19:49,200
week they have a sit-down conversation

562
00:19:52,070 --> 00:19:50,640
i've been going to

563
00:19:53,990 --> 00:19:52,080

uh leading up to the mission here for

564
00:19:56,789 --> 00:19:54,000
quite a while now so i can stay tagged

565
00:19:58,150 --> 00:19:56,799
up with the iss commander and i j we

566
00:20:00,070 --> 00:19:58,160
literally hadn't had a chance to talk to

567
00:20:02,149 --> 00:20:00,080
him in a while so i commandeered the

568
00:20:03,830 --> 00:20:02,159
space ground and just chatted with him

569
00:20:06,950 --> 00:20:03,840
for a few minutes

570
00:20:08,470 --> 00:20:06,960
okay let me go one more question

571
00:20:11,110 --> 00:20:08,480
hi robert perlman again with

572
00:20:13,590 --> 00:20:11,120
collectspace.com for art uh

573
00:20:15,190 --> 00:20:13,600
just um because there was a lot of these

574
00:20:17,510 --> 00:20:15,200
activities were categorized as

575
00:20:18,870 --> 00:20:17,520
get-aheads for today i'm just curious

576
00:20:21,110 --> 00:20:18,880
with the shuttle program coming to an

577
00:20:23,029 --> 00:20:21,120
end how long is the list of get aheads

578
00:20:25,750 --> 00:20:23,039
that remain um

579
00:20:27,190 --> 00:20:25,760
that are outstanding and are you near

580
00:20:28,710 --> 00:20:27,200
completion on that

581
00:20:30,149 --> 00:20:28,720
i don't have an exact number for you

582
00:20:32,390 --> 00:20:30,159
right now but uh we definitely are

583
00:20:34,950 --> 00:20:32,400
whittling the list down and uh it's it's

584
00:20:37,909 --> 00:20:34,960
getting much smaller with really one

585
00:20:39,430 --> 00:20:37,919
more shuttle flight full of evas left um

586
00:20:41,510 --> 00:20:39,440
i'm sure there's always going to be a

587
00:20:45,029 --> 00:20:41,520
list that it's not zero but uh we're

588
00:20:50,070 --> 00:20:47,750

okay any further questions here

589
00:20:52,470 --> 00:20:50,080
okay with that uh we'll uh

590
00:20:55,270 --> 00:20:52,480
wrap up this briefing a few programming

591
00:20:56,789 --> 00:20:55,280
highlights of course the space station

592
00:20:58,230 --> 00:20:56,799
crew and the shuttle crew getting ready

593
00:20:59,590 --> 00:20:58,240
to go to bed the station crew was

594
00:21:02,630 --> 00:20:59,600
supposed to go to bed at

595
00:21:04,549 --> 00:21:02,640
6 53 and the shuttle crew at 7 23 pm

596
00:21:07,110 --> 00:21:04,559
this evening central time our flight

597
00:21:09,110 --> 00:21:07,120
deck highlights are coming up at 8 pm

598
00:21:10,549 --> 00:21:09,120
central and then we'll have the

599
00:21:13,750 --> 00:21:10,559
international space station flight

600
00:21:15,510 --> 00:21:13,760
director update at 12 45 a.m for those

601
00:21:17,430 --> 00:21:15,520
of you who want to stay up that late

602
00:21:20,070 --> 00:21:17,440
and then the discovery and station crew

603
00:21:22,310 --> 00:21:20,080
are going to wake up at 3 23 a.m and

604
00:21:25,430 --> 00:21:22,320
begin a half day of activities before

605
00:21:27,110 --> 00:21:25,440
they get some r r time well that we'll

606
00:21:29,029 --> 00:21:27,120
close at today's briefing thank you for