1
00:00:06,230 --> 00:00:04,070
good afternoon and welcome to today's

2
00:00:09,589 --> 00:00:06,240
mission status briefing it is flight day

3
00:00:11,749 --> 00:00:09,599
10 with the sts-133 crew and with me

4
00:00:14,070 --> 00:00:11,759
this afternoon is royce renfrew and he

5
00:00:17,109 --> 00:00:14,080
is the lead flight director for the

6
00:00:18,470 --> 00:00:17,119
international space station welcome

7
00:00:19,910 --> 00:00:18,480
renfrew and

8
00:00:21,189 --> 00:00:19,920
let's begin today with a little bit of

9
00:00:22,710 --> 00:00:21,199
an update and then we'll take some

10
00:00:25,189 --> 00:00:22,720
questions

11
00:00:27,589 --> 00:00:25,199
okay thank you very much i told y'all

12
00:00:28,790 --> 00:00:27,599
yesterday that we had three major

13
00:00:30,710 --> 00:00:28,800

activities we were going to try to

14
00:00:32,069 --> 00:00:30,720
accomplish today and i'm happy to report

15
00:00:33,830 --> 00:00:32,079
that

16
00:00:35,670 --> 00:00:33,840
we got all three of those activities

17
00:00:37,990 --> 00:00:35,680
almost entirely complete i'm very

18
00:00:39,670 --> 00:00:38,000
excited to have completed all of those

19
00:00:40,950 --> 00:00:39,680
activities today

20
00:00:43,190 --> 00:00:40,960
the uh

21
00:00:45,430 --> 00:00:43,200
the first one we i want to talk about is

22
00:00:47,750 --> 00:00:45,440
the oxygen generation rack that

23
00:00:50,709 --> 00:00:47,760
commander kelly was working on today

24
00:00:52,950 --> 00:00:50,719
we went in and put a filter into that

25
00:00:53,830 --> 00:00:52,960
system as i told you we wanted to put

26
00:00:56,950 --> 00:00:53,840
some

27
00:00:58,470 --> 00:00:56,960
chemicals into the oga and put a little

28
00:00:59,670 --> 00:00:58,480
screen in there to filter out some

29
00:01:01,830 --> 00:00:59,680
particulates

30
00:01:03,830 --> 00:01:01,840
we got commander kelly in there he did

31
00:01:05,509 --> 00:01:03,840
that work for that that's this morning

32
00:01:07,510 --> 00:01:05,519
and then we spent some time

33
00:01:09,109 --> 00:01:07,520
commanding it from the ground got a

34
00:01:10,789 --> 00:01:09,119
little bit behind the timeline there

35
00:01:12,789 --> 00:01:10,799
because we had to tweak a few of the

36
00:01:14,950 --> 00:01:12,799
parameters for a couple of hours to get

37
00:01:17,670 --> 00:01:14,960
it to behave exactly like we wanted it

38
00:01:19,429 --> 00:01:17,680

to so that that

39
00:01:21,830 --> 00:01:19,439
remediation kit that we installed

40
00:01:23,670 --> 00:01:21,840
functioned as we wanted it to

41
00:01:26,310 --> 00:01:23,680
we eventually got that going a little

42
00:01:28,310 --> 00:01:26,320
bit late in the timeline and and did the

43
00:01:31,030 --> 00:01:28,320
activities that we wanted there

44
00:01:33,030 --> 00:01:31,040
and then turned mr kelly on again to go

45
00:01:35,030 --> 00:01:33,040
in and remove some of that equipment

46
00:01:36,390 --> 00:01:35,040
some of it is still installed

47
00:01:38,550 --> 00:01:36,400
and then this afternoon when i left

48
00:01:41,270 --> 00:01:38,560
console we were actually doing one last

49
00:01:43,109 --> 00:01:41,280
test on it so we still have about an

50
00:01:44,870 --> 00:01:43,119
hour's worth of ops on the iss

51
00:01:47,270 --> 00:01:44,880
commander's activities tomorrow to go

52
00:01:49,190 --> 00:01:47,280
back in and strip out all of that

53
00:01:51,109 --> 00:01:49,200
temporary remediation kit that we

54
00:01:53,670 --> 00:01:51,119
installed today so we'll take care of

55
00:01:55,670 --> 00:01:53,680
that on flight day 11. we also took a

56
00:01:57,590 --> 00:01:55,680
couple of samples some water samples to

57
00:01:59,350 --> 00:01:57,600
bring home on discovery so we can

58
00:02:01,109 --> 00:01:59,360
analyze that back on the ground and then

59
00:02:02,950 --> 00:02:01,119
i hope to get the oga back up and

60
00:02:04,789 --> 00:02:02,960
running in the increment as soon as

61
00:02:07,990 --> 00:02:04,799
we've done the analysis on those samples

62
00:02:10,309 --> 00:02:08,000
when they get back on the ground so 95

63
00:02:11,670 --> 00:02:10,319

done there with maybe an hour's worth of

64
00:02:13,430 --> 00:02:11,680
work on the commander's timeline

65
00:02:15,190 --> 00:02:13,440
tomorrow

66
00:02:17,110 --> 00:02:15,200
the other major or the second major

67
00:02:19,830 --> 00:02:17,120
activity that we did today

68
00:02:21,910 --> 00:02:19,840
with mike barrett and paula nespali

69
00:02:23,589 --> 00:02:21,920
working on the lab carbon dioxide

70
00:02:25,350 --> 00:02:23,599
removal assembly

71
00:02:27,030 --> 00:02:25,360
dr barrett took the

72
00:02:29,030 --> 00:02:27,040
one of the front

73
00:02:31,350 --> 00:02:29,040
beds out of that seizure that had a

74
00:02:34,070 --> 00:02:31,360
short in it we that shorted out during

75
00:02:35,990 --> 00:02:34,080
eva one and we decided to go ahead and

76
00:02:38,150 --> 00:02:36,000
do the in-flight maintenance on that

77
00:02:39,750 --> 00:02:38,160
today particularly because mike barrett

78
00:02:41,750 --> 00:02:39,760
had done that previously during his

79
00:02:43,990 --> 00:02:41,760
increment exactly the same signature we

80
00:02:46,309 --> 00:02:44,000
needed him needed him to do exactly the

81
00:02:48,710 --> 00:02:46,319
same thing so he took that bed out of

82
00:02:50,390 --> 00:02:48,720
the seizure and then you got to see over

83
00:02:52,229 --> 00:02:50,400
his shoulder a lot today

84
00:02:55,030 --> 00:02:52,239
while he was working on those very very

85
00:02:56,869 --> 00:02:55,040
small wires with the multimeter testing

86
00:02:58,949 --> 00:02:56,879
a bunch of wires for us until we found

87
00:03:01,350 --> 00:02:58,959
where exactly the short was

88
00:03:02,869 --> 00:03:01,360

and i it was somewhat humorous to watch

89
00:03:04,630 --> 00:03:02,879
medical dr barrett with a pair of

90
00:03:07,190 --> 00:03:04,640
forceps in his hand reach in and get

91
00:03:09,830 --> 00:03:07,200
those small wires out and clip them

92
00:03:11,430 --> 00:03:09,840
we put all that back together

93
00:03:13,430 --> 00:03:11,440
mike did another

94
00:03:16,470 --> 00:03:13,440
great job on that we put that back in

95
00:03:18,790 --> 00:03:16,480
the lab carbon dioxide removal assembly

96
00:03:22,070 --> 00:03:18,800
in the uh area revitalization system

97
00:03:23,830 --> 00:03:22,080
rack or the ars rack this evening and uh

98
00:03:26,309 --> 00:03:23,840
spun that up and i actually had a text

99
00:03:28,309 --> 00:03:26,319
message from the the engineering folks

100
00:03:30,149 --> 00:03:28,319
not too long ago that said that seizure

101
00:03:31,990 --> 00:03:30,159
is now back up and running so it's happy

102
00:03:34,309 --> 00:03:32,000
and healthy and mike barrett's work on

103
00:03:35,990 --> 00:03:34,319
that worked perfectly today

104
00:03:37,910 --> 00:03:36,000
then the third major activity that we

105
00:03:40,149 --> 00:03:37,920
did today with the remainder of the crew

106
00:03:42,710 --> 00:03:40,159
was to finish our pmm outfitting

107
00:03:44,869 --> 00:03:42,720
activities to to get rid of all the

108
00:03:46,550 --> 00:03:44,879
launch equipment that was in there

109
00:03:48,550 --> 00:03:46,560
all the stuff that we needed to make

110
00:03:50,309 --> 00:03:48,560
sure that nothing got rattled loose

111
00:03:51,910 --> 00:03:50,319
while discovery lifted off the pad and

112
00:03:52,869 --> 00:03:51,920
went through about three g's going

113
00:03:54,789 --> 00:03:52,879

uphill

114
00:03:56,869 --> 00:03:54,799
once we get it into zero g we no longer

115
00:03:58,390 --> 00:03:56,879
need all that hardware so we spent a lot

116
00:04:00,710 --> 00:03:58,400
of time with a bunch of crew members

117
00:04:02,949 --> 00:04:00,720
today going in and removing that launch

118
00:04:04,630 --> 00:04:02,959
hardware transferring some of those

119
00:04:07,270 --> 00:04:04,640
platforms that we no longer need on

120
00:04:09,509 --> 00:04:07,280
orbit the integrated stowage platforms

121
00:04:12,390 --> 00:04:09,519
and a bunch of launch hardware over to

122
00:04:14,390 --> 00:04:12,400
the htv transfer vehicle and we had a

123
00:04:16,069 --> 00:04:14,400
camera pointed in there as well today so

124
00:04:18,949 --> 00:04:16,079
you could actually see the crew transfer

125
00:04:20,789 --> 00:04:18,959
stuff out of the pmm into the htv

126
00:04:22,550 --> 00:04:20,799
we also spent some time as i told you

127
00:04:24,550 --> 00:04:22,560
yesterday getting some additional stuff

128
00:04:27,110 --> 00:04:24,560
out of the htv so we got the food out of

129
00:04:30,310 --> 00:04:27,120
there today that came up hill

130
00:04:33,189 --> 00:04:30,320
and move that into iss

131
00:04:35,270 --> 00:04:33,199
and all in all just a great day so we're

132
00:04:37,350 --> 00:04:35,280
i'm ready to declare that the pmm is

133
00:04:39,830 --> 00:04:37,360
essentially ready for business

134
00:04:42,070 --> 00:04:39,840
as a module on board iss at this moment

135
00:04:43,670 --> 00:04:42,080
we still have maybe a launch restraint

136
00:04:45,270 --> 00:04:43,680
bolt or two that we need to go in and

137
00:04:47,590 --> 00:04:45,280
turn but it's really

138
00:04:49,110 --> 00:04:47,600

it's really ready to go as a permanent

139
00:04:51,749 --> 00:04:49,120
attachment to the international space

140
00:04:54,310 --> 00:04:51,759
station we'll start using that module

141
00:04:56,790 --> 00:04:54,320
as it was designed to use so all in all

142
00:04:58,629 --> 00:04:56,800
just just a great day on orbit the the

143
00:05:00,310 --> 00:04:58,639
additional plus one day

144
00:05:02,469 --> 00:05:00,320
that the

145
00:05:05,430 --> 00:05:02,479
we wound up with the dock mission here

146
00:05:07,830 --> 00:05:05,440
was very well used in getting the iss in

147
00:05:09,749 --> 00:05:07,840
the absolute best config we can be in

148
00:05:11,270 --> 00:05:09,759
for discoveries undock

149
00:05:12,710 --> 00:05:11,280
so then tomorrow

150
00:05:14,150 --> 00:05:12,720
a couple of different things are going

151
00:05:15,590 --> 00:05:14,160
to go on

152
00:05:17,909 --> 00:05:15,600
we're going to get the

153
00:05:21,749 --> 00:05:17,919
the hatches closed about 2 30 in the

154
00:05:26,070 --> 00:05:24,629
we'll also have the management teams for

155
00:05:28,070 --> 00:05:26,080
both the shuttle and the international

156
00:05:29,990 --> 00:05:28,080
space station tomorrow have their

157
00:05:32,550 --> 00:05:30,000
discussion and give their go no go for

158
00:05:34,150 --> 00:05:32,560
the undocking and then the undocking is

159
00:05:38,070 --> 00:05:34,160
actually going to occur

160
00:05:40,870 --> 00:05:38,080
monday morning at 6 00 a.m central time

161
00:05:42,629 --> 00:05:40,880
discovery will undock from iss for a

162
00:05:45,110 --> 00:05:42,639
landing on wednesday

163
00:05:47,189 --> 00:05:45,120

at 10 58 central as the first

164
00:05:49,189 --> 00:05:47,199
opportunity at kennedy

165
00:05:50,150 --> 00:05:49,199
and with that i'll turn it back over to

166
00:05:54,310 --> 00:05:50,160
you

167
00:05:56,390 --> 00:05:54,320
some questions here from our reporters

168
00:05:57,749 --> 00:05:56,400
and then we do also have two reporters

169
00:06:00,390 --> 00:05:57,759
on our phone line so we're going to

170
00:06:01,590 --> 00:06:00,400
begin uh first with questions from the

171
00:06:03,189 --> 00:06:01,600
audience

172
00:06:06,230 --> 00:06:03,199
any questions

173
00:06:07,909 --> 00:06:06,240
denise ciao

174
00:06:09,670 --> 00:06:07,919
ciao with space.com um there's some

175
00:06:11,990 --> 00:06:09,680
cargo transfer that's scheduled for

176
00:06:13,990 --> 00:06:12,000
tomorrow morning um is that also work on

177
00:06:14,710 --> 00:06:14,000
the pmm and htv or what's going to go on

178
00:06:16,950 --> 00:06:14,720
there

179
00:06:20,309 --> 00:06:16,960
um what we need to do tomorrow morning

180
00:06:22,629 --> 00:06:20,319
is get the the late stow activities done

181
00:06:25,430 --> 00:06:22,639
there are some time sensitive payloads

182
00:06:27,110 --> 00:06:25,440
on board the the iss that we need to get

183
00:06:29,029 --> 00:06:27,120
transferred over to

184
00:06:31,189 --> 00:06:29,039
discovery and we want to do those as

185
00:06:33,430 --> 00:06:31,199
late as we possibly can so that we get

186
00:06:35,270 --> 00:06:33,440
them on the ground

187
00:06:37,510 --> 00:06:35,280
in good shape so we can get them out of

188
00:06:39,749 --> 00:06:37,520

discovery so we hold on to those until

189
00:06:42,070 --> 00:06:39,759
the very very last uh opportunity to

190
00:06:43,909 --> 00:06:42,080
transfer those between the two vehicles

191
00:06:45,510 --> 00:06:43,919
and then and then we'll get that and

192
00:06:47,350 --> 00:06:45,520
then we'll get them back on the ground

193
00:06:49,270 --> 00:06:47,360
for that time-sensitive payloads and

194
00:06:50,550 --> 00:06:49,280
there are a couple other odds and ends

195
00:06:53,350 --> 00:06:50,560
that we need to get thrown across the

196
00:06:56,309 --> 00:06:53,360
hatch there but essentially the majority

197
00:06:58,070 --> 00:06:56,319
of the transfer ops is done

198
00:06:59,510 --> 00:06:58,080
um and do you know if there's anything

199
00:07:01,510 --> 00:06:59,520
special planned during the farewell

200
00:07:03,189 --> 00:07:01,520
ceremony for dom to commemorate

201
00:07:06,790 --> 00:07:03,199
discovery's last flight

202
00:07:09,510 --> 00:07:06,800
you know the uh the uh commander lindsay

203
00:07:11,670 --> 00:07:09,520
is going to do a uh tribute i believe is

204
00:07:13,270 --> 00:07:11,680
in the undock timeline here that we're

205
00:07:15,670 --> 00:07:13,280
they're going to have some

206
00:07:17,510 --> 00:07:15,680
some activities related to discovery's

207
00:07:19,510 --> 00:07:17,520
last flight on their on their free

208
00:07:21,029 --> 00:07:19,520
flight day after they undock and i'm

209
00:07:22,390 --> 00:07:21,039
sure that both commander lindsay and

210
00:07:24,870 --> 00:07:22,400
commander kelly will have something

211
00:07:26,870 --> 00:07:24,880
special for the activities tomorrow

212
00:07:29,589 --> 00:07:26,880
although i'm not i'm not familiar with

213
00:07:31,110 --> 00:07:29,599

exactly what they planned for the last

214
00:07:33,029 --> 00:07:31,120
the last day of discovery dock to the

215
00:07:34,550 --> 00:07:33,039
iss

216
00:07:37,029 --> 00:07:34,560
mr pearlman

217
00:07:37,909 --> 00:07:37,039
hi robert perlman with collectspace.com

218
00:07:40,070 --> 00:07:37,919
um

219
00:07:42,790 --> 00:07:40,080
can you just remind me uh what the

220
00:07:44,629 --> 00:07:42,800
advantage is of having the crew shut the

221
00:07:45,990 --> 00:07:44,639
hatches the day before undocking rather

222
00:07:49,270 --> 00:07:46,000
than doing it all in the same day is

223
00:07:52,070 --> 00:07:49,280
there is it mostly for the shuttle crews

224
00:07:52,950 --> 00:07:52,080
um benefit or is there an iss benefit as

225
00:07:55,270 --> 00:07:52,960
well

226
00:07:57,029 --> 00:07:55,280
it's it's really for the the shuttle

227
00:07:58,869 --> 00:07:57,039
crew because they have a really really

228
00:08:00,070 --> 00:07:58,879
really busy day after they undock

229
00:08:01,350 --> 00:08:00,080
they're going to do the fly around

230
00:08:03,830 --> 00:08:01,360
they're going to they're going to get

231
00:08:05,430 --> 00:08:03,840
into all their preps for landing so the

232
00:08:07,589 --> 00:08:05,440
one of the advantages get the hatches

233
00:08:09,909 --> 00:08:07,599
closed the night before which is a

234
00:08:12,230 --> 00:08:09,919
relatively extensive operation for both

235
00:08:14,230 --> 00:08:12,240
crews is to get that done and then let

236
00:08:15,909 --> 00:08:14,240
the crew get get a good night's sleep

237
00:08:17,990 --> 00:08:15,919
and then wake up in the morning and

238
00:08:19,749 --> 00:08:18,000

first thing punch off so the

239
00:08:20,950 --> 00:08:19,759
so the orbiter crew can then spend the

240
00:08:22,790 --> 00:08:20,960
rest of the day so they don't have to

241
00:08:26,629 --> 00:08:22,800
get up in the morning and then shut the

242
00:08:28,150 --> 00:08:26,639
hatches and that just extends the day

243
00:08:29,510 --> 00:08:28,160
and uh can

244
00:08:32,389 --> 00:08:29,520
can you just address a little bit what

245
00:08:35,670 --> 00:08:32,399
the iss cruise activities will be after

246
00:08:37,829 --> 00:08:35,680
undocking how how much recovery so to

247
00:08:39,750 --> 00:08:37,839
speak do they need after a shuttle

248
00:08:40,870 --> 00:08:39,760
leaves to uh to get back to normal

249
00:08:42,790 --> 00:08:40,880
operations

250
00:08:45,670 --> 00:08:42,800
we we have some activities that we need

251
00:08:48,230 --> 00:08:45,680
to perform on board iss it's not a it's

252
00:08:49,990 --> 00:08:48,240
not an extensive list but we need to put

253
00:08:52,150 --> 00:08:50,000
all of our equipment away that we have

254
00:08:53,590 --> 00:08:52,160
out for a docked mission some of the

255
00:08:55,509 --> 00:08:53,600
some of the

256
00:08:57,430 --> 00:08:55,519
ventilation lines that we that we have

257
00:09:00,230 --> 00:08:57,440
scattered out and we get the

258
00:09:02,470 --> 00:09:00,240
the pm the pressurized mating adapter

259
00:09:04,150 --> 00:09:02,480
depressed after the orbiter undocks and

260
00:09:07,509 --> 00:09:04,160
a few other odds and ends but there's

261
00:09:09,269 --> 00:09:07,519
not an extensive amount of work that the

262
00:09:11,670 --> 00:09:09,279
station crew needs to do after the

263
00:09:13,590 --> 00:09:11,680

orbiter undocks so they'll get a

264
00:09:15,670 --> 00:09:13,600
well-deserved a little bit of time off

265
00:09:18,389 --> 00:09:15,680
there after discovery leaves that leaves

266
00:09:22,630 --> 00:09:20,949
are there any other questions here

267
00:09:25,269 --> 00:09:22,640
well then we'll go to our phone line

268
00:09:27,590 --> 00:09:25,279
we'll start with mark caro

269
00:09:29,590 --> 00:09:27,600
oh thank you mark caro for aviation week

270
00:09:31,509 --> 00:09:29,600
um if you know could you tell us what

271
00:09:33,670 --> 00:09:31,519
some of the late stowe items are are

272
00:09:35,030 --> 00:09:33,680
they like medical specimens or other

273
00:09:37,030 --> 00:09:35,040
experiments

274
00:09:39,350 --> 00:09:37,040
uh excuse me

275
00:09:41,990 --> 00:09:39,360
that's correct the the payload science

276
00:09:43,430 --> 00:09:42,000
really that uh some of it like i said is

277
00:09:46,150 --> 00:09:43,440
time sensitive so we're going to take it

278
00:09:48,870 --> 00:09:46,160
out of our minus 80 degree

279
00:09:50,230 --> 00:09:48,880
uh fahrenheit uh or minus 80 degree the

280
00:09:52,389 --> 00:09:50,240
melfi freezer i can't remember the

281
00:09:54,150 --> 00:09:52,399
acronym stands for the really cold

282
00:09:55,990 --> 00:09:54,160
freezer on board iss and we're going to

283
00:09:58,630 --> 00:09:56,000
put those in the glaciers

284
00:10:01,190 --> 00:09:58,640
in discovery's mid deck to bring them

285
00:10:03,910 --> 00:10:01,200
home so i say we want to do that at the

286
00:10:05,190 --> 00:10:03,920
very end of the transfer day so that so

287
00:10:07,430 --> 00:10:05,200
so those

288
00:10:10,069 --> 00:10:07,440

time-sensitive payloads can be taken out

289
00:10:12,069 --> 00:10:10,079
once we get discovery back on the tarmac

290
00:10:13,590 --> 00:10:12,079
at ksc

291
00:10:21,269 --> 00:10:13,600
thank you

292
00:10:22,870 --> 00:10:21,279
florida today and uh royce i just

293
00:10:25,110 --> 00:10:22,880
wondered if um

294
00:10:26,470 --> 00:10:25,120
during the farewell ceremony tomorrow

295
00:10:27,910 --> 00:10:26,480
you know to what extent you'll be

296
00:10:29,190 --> 00:10:27,920
reflecting on the fact that it's one of

297
00:10:32,069 --> 00:10:29,200
the last few

298
00:10:34,710 --> 00:10:32,079
times we'll see a shuttle crew

299
00:10:36,069 --> 00:10:34,720
saying goodbye and closing a hatch and

300
00:10:38,230 --> 00:10:36,079
and

301
00:10:40,069 --> 00:10:38,240
of course the last for discovery

302
00:10:41,910 --> 00:10:40,079
uh personally

303
00:10:44,550 --> 00:10:41,920
this is uh i've been working on this

304
00:10:46,790 --> 00:10:44,560
mission for almost two years now this is

305
00:10:48,389 --> 00:10:46,800
this has been a wonderful experience for

306
00:10:51,350 --> 00:10:48,399
me to go do this

307
00:10:53,509 --> 00:10:51,360
as as a lead uh station flight director

308
00:10:56,310 --> 00:10:53,519
for discovery's glass mission

309
00:10:57,509 --> 00:10:56,320
uh it'll be uh i think the term that a

310
00:10:58,790 --> 00:10:57,519
lot of folks have been using is

311
00:11:02,069 --> 00:10:58,800
bittersweet

312
00:11:03,430 --> 00:11:02,079
because i i will be and am currently

313
00:11:05,509 --> 00:11:03,440

ecstatic

314
00:11:07,430 --> 00:11:05,519
about the way that this mission has gone

315
00:11:08,949 --> 00:11:07,440
we've we've planned it and we've planned

316
00:11:10,069 --> 00:11:08,959
it and we've planned it and just to

317
00:11:11,670 --> 00:11:10,079
actually see

318
00:11:13,350 --> 00:11:11,680
discovery come off the pad and have an

319
00:11:15,990 --> 00:11:13,360
opportunity to actually go execute the

320
00:11:18,870 --> 00:11:16,000
mission and to see it fall out as

321
00:11:21,030 --> 00:11:18,880
flawlessly as it has done is just a

322
00:11:22,630 --> 00:11:21,040
wonderful feeling for a flight director

323
00:11:23,910 --> 00:11:22,640
to look at all the hard work that we've

324
00:11:26,470 --> 00:11:23,920
done and

325
00:11:28,550 --> 00:11:26,480
handle all the curveballs that the

326
00:11:30,310 --> 00:11:28,560
vehicle has thrown at us or the

327
00:11:31,829 --> 00:11:30,320
throughout the mission with

328
00:11:34,310 --> 00:11:31,839
the various failures that we've had

329
00:11:36,389 --> 00:11:34,320
during the dock ops and be able to take

330
00:11:39,509 --> 00:11:36,399
those in stride and actually to execute

331
00:11:41,829 --> 00:11:39,519
the mission as designed is just glorious

332
00:11:44,150 --> 00:11:41,839
and on the on the flip side of that

333
00:11:46,150 --> 00:11:44,160
obviously it is absolutely true that

334
00:11:49,030 --> 00:11:46,160
this is the last time discovery will be

335
00:11:52,150 --> 00:11:49,040
at iss this is the last one of the last

336
00:11:54,150 --> 00:11:52,160
shuttle missions we'll ever do to iss so

337
00:11:56,150 --> 00:11:54,160
that that has some bittersweet

338
00:11:59,110 --> 00:11:56,160

components to it but

339
00:12:01,110 --> 00:11:59,120
really i think i'm just very happy

340
00:12:02,629 --> 00:12:01,120
with the way the mission has gone the

341
00:12:04,389 --> 00:12:02,639
way the ground teams have executed the

342
00:12:07,110 --> 00:12:04,399
way his crew is executed i couldn't be

343
00:12:09,430 --> 00:12:07,120
happier so it's gonna it's gonna be

344
00:12:11,030 --> 00:12:09,440
difficult for me not to feel happy even

345
00:12:14,310 --> 00:12:11,040
though i understand this is the last

346
00:12:15,590 --> 00:12:14,320
time discovery is going to be there

347
00:12:18,389 --> 00:12:15,600
thanks very much

348
00:12:20,550 --> 00:12:18,399
are there any other questions

349
00:12:23,030 --> 00:12:20,560
we will wrap up this evening's briefing

350
00:12:24,870 --> 00:12:23,040
just a couple of updates the next

351
00:12:28,949 --> 00:12:24,880
mission status briefing will be tomorrow

352
00:12:30,949 --> 00:12:28,959
that's sunday march 6th at 12 30 p.m

353
00:12:32,550 --> 00:12:30,959
and then there will of course be over

354
00:12:35,829 --> 00:12:32,560
the evening hours in the very early

355
00:12:38,550 --> 00:12:35,839
morning hours at 12 45 a.m central time

356
00:12:40,310 --> 00:12:38,560
the iss flight director update

357
00:12:42,230 --> 00:12:40,320
for continuing coverage of the final

358
00:12:44,629 --> 00:12:42,240
mission of discovery be sure to stay

359
00:12:47,350 --> 00:12:44,639
tuned to nasa tv for more information

360
00:12:50,550 --> 00:12:47,360
about nasa and its programs be sure to