
PACCBET

1
00:00:05,749 --> 00:00:03,990
well good day and welcome back to the

2
00:00:07,590 --> 00:00:05,759
johnson space center for today's mission

3
00:00:09,830 --> 00:00:07,600
status briefing on atlantis flight to

4
00:00:11,910 --> 00:00:09,840
the international space station a new

5
00:00:13,990 --> 00:00:11,920
addition today on the station and with

6
00:00:15,669 --> 00:00:14,000
us to discuss the day's events is emily

7
00:00:19,349 --> 00:00:15,679
nelson the lead international space

8
00:00:21,750 --> 00:00:19,359
station flight director for sts-132 ulf4

9
00:00:23,590 --> 00:00:21,760
emily thanks rob

10
00:00:25,429 --> 00:00:23,600
well today the primary focus especially

11
00:00:27,429 --> 00:00:25,439
this morning was the installation of the

12
00:00:30,150 --> 00:00:27,439
mini research module number one which

13
00:00:32,389 --> 00:00:30,160

was brought up in atlantis payload bay

14
00:00:34,069 --> 00:00:32,399
and it was an absolutely beautiful

15
00:00:35,830 --> 00:00:34,079
installation we shut it down in the

16
00:00:37,350 --> 00:00:35,840
payload bay with no issues whatsoever

17
00:00:39,190 --> 00:00:37,360
all of the operations while in the

18
00:00:41,910 --> 00:00:39,200
payload bay were perfect

19
00:00:43,350 --> 00:00:41,920
then we activated it on the the space

20
00:00:45,830 --> 00:00:43,360
station arm which was a brand new

21
00:00:47,750 --> 00:00:45,840
activity for us and that was also

22
00:00:49,110 --> 00:00:47,760
picture perfect went exactly according

23
00:00:51,670 --> 00:00:49,120
to plan

24
00:00:53,670 --> 00:00:51,680
a beautiful maneuver

25
00:00:56,310 --> 00:00:53,680
over the sahara with a beautiful orange

26
00:00:59,750 --> 00:00:56,320
backdrop to it as we got the module in

27
00:01:01,349 --> 00:00:59,760
place to activate the docking system

28
00:01:03,750 --> 00:01:01,359
the docking system power up was

29
00:01:05,270 --> 00:01:03,760
basically nominal and then

30
00:01:06,950 --> 00:01:05,280
we got our first view from the docking

31
00:01:08,870 --> 00:01:06,960
camera itself

32
00:01:10,469 --> 00:01:08,880
the crew was ahead of the head on their

33
00:01:11,830 --> 00:01:10,479
timeline for the day at that point so

34
00:01:13,990 --> 00:01:11,840
they held back because we were in a

35
00:01:16,630 --> 00:01:14,000
night pass and they waited for dawn and

36
00:01:18,950 --> 00:01:16,640
once we had optimal lighting for the

37
00:01:20,789 --> 00:01:18,960
final maneuver they brought imram 1 into

38
00:01:23,350 --> 00:01:20,799

contact with zarya triggered the

39
00:01:26,550 --> 00:01:23,360
automated docking system to begin and

40
00:01:28,789 --> 00:01:26,560
the entire thing went exactly as as

41
00:01:31,109 --> 00:01:28,799
picture perfect as we could have hoped

42
00:01:32,789 --> 00:01:31,119
uh so much so that we were missing one

43
00:01:34,950 --> 00:01:32,799
piece of telemetry as we were going

44
00:01:37,190 --> 00:01:34,960
along that one of our contact sensors

45
00:01:39,910 --> 00:01:37,200
did not ever actually contact because

46
00:01:41,670 --> 00:01:39,920
garrett's alignment was so perfect that

47
00:01:43,030 --> 00:01:41,680
it didn't trip one of the contact

48
00:01:48,389 --> 00:01:43,040
sensors because it never actually came

49
00:01:52,469 --> 00:01:50,389
let's see shortly after we completed the

50
00:01:54,710 --> 00:01:52,479
docking on the mrm1 side of the

51
00:01:56,950 --> 00:01:54,720
interface we got confirmation from the

52
00:01:58,630 --> 00:01:56,960
russian ground site telemetry that the

53
00:01:59,990 --> 00:01:58,640
zarya side of the interface had also

54
00:02:03,749 --> 00:02:00,000
completed its

55
00:02:06,469 --> 00:02:03,759
physical mate and so we have now a fully

56
00:02:08,869 --> 00:02:06,479
permanent redundantly

57
00:02:10,790 --> 00:02:08,879
structurally mated module on the space

58
00:02:12,869 --> 00:02:10,800
station

59
00:02:13,990 --> 00:02:12,879
the remainder of the day we handed off

60
00:02:16,710 --> 00:02:14,000
the

61
00:02:19,110 --> 00:02:16,720
orbital boom orbiter boom sensor system

62
00:02:23,510 --> 00:02:19,120
to the shuttle arm so that it will be

63
00:02:25,350 --> 00:02:23,520

available for eva tomorrow we

64
00:02:27,430 --> 00:02:25,360
got that arm and a good config for the

65
00:02:29,750 --> 00:02:27,440
overnight and then began

66
00:02:31,990 --> 00:02:29,760
some preparations for the eva spacewalk

67
00:02:33,990 --> 00:02:32,000
tomorrow

68
00:02:35,750 --> 00:02:34,000
and then on the station side of things

69
00:02:37,509 --> 00:02:35,760
we spent a lot of time

70
00:02:39,030 --> 00:02:37,519
basically getting our ducks in a row so

71
00:02:39,990 --> 00:02:39,040
that we can get some work done tomorrow

72
00:02:43,110 --> 00:02:40,000
as well

73
00:02:44,790 --> 00:02:43,120
tomorrow's big activity we'll have eva2

74
00:02:46,710 --> 00:02:44,800
we have a new task added to the

75
00:02:49,670 --> 00:02:46,720
beginning of that spacewalk we'll be

76
00:02:52,790 --> 00:02:49,680
addressing the cable issue on the

77
00:02:55,110 --> 00:02:52,800
camera on the end of the boom

78
00:02:57,509 --> 00:02:55,120
we will present the arm to

79
00:02:59,030 --> 00:02:57,519
a crew member in a

80
00:02:59,990 --> 00:02:59,040
foot restraint on the truss of the

81
00:03:02,630 --> 00:03:00,000
station

82
00:03:04,949 --> 00:03:02,640
he will pull the cable out tie wrap it

83
00:03:08,309 --> 00:03:04,959
so that it'll stay out of the way in

84
00:03:09,190 --> 00:03:08,319
between the connector and a hard stop

85
00:03:10,550 --> 00:03:09,200
that's

86
00:03:12,390 --> 00:03:10,560
where the cable is wedged right now

87
00:03:13,750 --> 00:03:12,400
that's preventing the camera to pan

88
00:03:14,790 --> 00:03:13,760

until fully

89
00:03:16,630 --> 00:03:14,800
that should

90
00:03:18,949 --> 00:03:16,640
restore that capability so that the

91
00:03:22,070 --> 00:03:18,959
camera and its sensors are available to

92
00:03:24,390 --> 00:03:22,080
the orbiter for inspections as required

93
00:03:26,070 --> 00:03:24,400
specifically late inspections we'll then

94
00:03:27,589 --> 00:03:26,080
carry on with our battery work as

95
00:03:29,030 --> 00:03:27,599
expected

96
00:03:30,390 --> 00:03:29,040
meanwhile inside the station we're going

97
00:03:33,270 --> 00:03:30,400
to have a busy day as well we're going

98
00:03:36,550 --> 00:03:33,280
to be doing some removal and replacement

99
00:03:37,430 --> 00:03:36,560
work in our oxygen generation system

100
00:03:40,630 --> 00:03:37,440
some

101
00:03:42,550 --> 00:03:40,640
water collections and collecting samples

102
00:03:44,789 --> 00:03:42,560
for return to ground

103
00:03:48,470 --> 00:03:44,799
so a busy day all the way around with

104
00:03:50,710 --> 00:03:48,480
the initiation of ingress of the mrm1

105
00:03:54,550 --> 00:03:50,720
module to top everything off and that

106
00:03:56,309 --> 00:03:54,560
basically is today and tomorrow

107
00:03:59,110 --> 00:03:56,319
okay we'll take questions uh here in

108
00:04:00,869 --> 00:03:59,120
houston and we'll start off in the front

109
00:04:05,990 --> 00:04:00,879
mark

110
00:04:08,710 --> 00:04:06,000
will you uh what part which piece of

111
00:04:10,710 --> 00:04:08,720
trust will you do the um the cable tie

112
00:04:11,589 --> 00:04:10,720
on do you know

113
00:04:16,789 --> 00:04:11,599

the

114
00:04:18,629 --> 00:04:16,799
has

115
00:04:20,310 --> 00:04:18,639
a foot restraint installed there so we

116
00:04:22,790 --> 00:04:20,320
just need we actually do have to move it

117
00:04:24,550 --> 00:04:22,800
over one slot to make it slightly more

118
00:04:25,830 --> 00:04:24,560
accessible to the arm and get that

119
00:04:27,430 --> 00:04:25,840
configured but it'll be right there at

120
00:04:29,430 --> 00:04:27,440
the center of the station on the way out

121
00:04:32,150 --> 00:04:29,440
to the p6 truss

122
00:04:33,430 --> 00:04:32,160
and has there been any more uh

123
00:04:37,350 --> 00:04:33,440
discussion

124
00:04:41,430 --> 00:04:40,150
going back to the the new antenna or is

125
00:04:42,629 --> 00:04:41,440
that still

126
00:04:45,270 --> 00:04:42,639
in work

127
00:04:47,030 --> 00:04:45,280
yes this morning at the

128
00:04:49,909 --> 00:04:47,040
at our management meeting we were

129
00:04:52,629 --> 00:04:49,919
directed to increase the priority on

130
00:04:55,590 --> 00:04:52,639
that antenna such that we will revisit

131
00:04:57,510 --> 00:04:55,600
that antenna before we go and get the

132
00:04:59,909 --> 00:04:57,520
grapple fixture out of the payload bay

133
00:05:01,510 --> 00:04:59,919
so on eva3

134
00:05:03,029 --> 00:05:01,520
once the batteries are complete the

135
00:05:05,909 --> 00:05:03,039
batteries are still a higher priority

136
00:05:07,990 --> 00:05:05,919
for us we'll complete our battery tasks

137
00:05:10,550 --> 00:05:08,000
and then we'll head back up to the

138
00:05:12,230 --> 00:05:10,560

escant the space to ground antenna for

139
00:05:14,550 --> 00:05:12,240
our backup ku system

140
00:05:16,710 --> 00:05:14,560
and attempt to

141
00:05:18,710 --> 00:05:16,720
further torque down the four bolts that

142
00:05:21,749 --> 00:05:18,720
are holding the dish onto the boom

143
00:05:23,350 --> 00:05:21,759
basically applying a greater torque on

144
00:05:24,710 --> 00:05:23,360
those bolts

145
00:05:26,550 --> 00:05:24,720
we have a couple of steps that we can

146
00:05:28,629 --> 00:05:26,560
apply if that initial

147
00:05:30,230 --> 00:05:28,639
we've got some backup scenarios there in

148
00:05:32,150 --> 00:05:30,240
case the initial attempts are not

149
00:05:34,550 --> 00:05:32,160
successful once that's complete we'll

150
00:05:37,270 --> 00:05:34,560
get the launch locks off of the gimbals

151
00:05:40,230 --> 00:05:37,280
so that the antenna will be functional

152
00:05:45,430 --> 00:05:41,510
bill

153
00:05:47,670 --> 00:05:45,440
today talk about maybe letting the

154
00:05:49,270 --> 00:05:47,680
station crew use to just the galley and

155
00:05:50,870 --> 00:05:49,280
the shuttle because of a

156
00:05:53,189 --> 00:05:50,880
wpa problem can you tell me what's going

157
00:05:55,270 --> 00:05:53,199
on with that yeah our

158
00:05:56,710 --> 00:05:55,280
potable water dispenser was having a

159
00:05:58,309 --> 00:05:56,720
problem um

160
00:05:59,909 --> 00:05:58,319
we think it may be a combination of two

161
00:06:01,909 --> 00:05:59,919
different problems one that we've seen

162
00:06:03,189 --> 00:06:01,919
before there are some mechanisms

163
00:06:04,710 --> 00:06:03,199

involved in getting the drink bag

164
00:06:06,390 --> 00:06:04,720
attached to

165
00:06:08,230 --> 00:06:06,400
the water dispenser

166
00:06:09,670 --> 00:06:08,240
and then telling the system to fill the

167
00:06:11,830 --> 00:06:09,680
bag with water

168
00:06:13,909 --> 00:06:11,840
the the mechanical devices that tell the

169
00:06:16,390 --> 00:06:13,919
system that the bag is engaged sometimes

170
00:06:18,710 --> 00:06:16,400
get stuck we we do regular cleanings of

171
00:06:20,629 --> 00:06:18,720
those but we suspect perhaps something's

172
00:06:21,990 --> 00:06:20,639
gotten clogged in there there's an

173
00:06:23,510 --> 00:06:22,000
interesting signature we've not seen

174
00:06:24,950 --> 00:06:23,520
before in terms of some of the lights

175
00:06:26,230 --> 00:06:24,960
that are normally on on the front of the

176
00:06:27,510 --> 00:06:26,240
unit are not

177
00:06:28,790 --> 00:06:27,520
lit and we're going to get some more

178
00:06:30,469 --> 00:06:28,800
data on that from the crew either

179
00:06:32,390 --> 00:06:30,479
tonight or in the morning to try to

180
00:06:34,150 --> 00:06:32,400
psych that problem out right now they

181
00:06:35,590 --> 00:06:34,160
are able to get what we call ambi the

182
00:06:38,070 --> 00:06:35,600
ambient temperature water but they can't

183
00:06:39,590 --> 00:06:38,080
get hot water out of the unit so

184
00:06:40,790 --> 00:06:39,600
in case they need hot water we'll send

185
00:06:42,070 --> 00:06:40,800
them over to the shuttle they've got

186
00:06:43,430 --> 00:06:42,080
plenty of water it just means that we

187
00:06:45,430 --> 00:06:43,440
wouldn't have to dump quite as much

188
00:06:47,749 --> 00:06:45,440

water at the very end of the mission and

189
00:06:50,150 --> 00:06:47,759
but for ambient water they can use our

190
00:06:51,990 --> 00:06:50,160
pwd and the lights here on the display

191
00:06:53,430 --> 00:06:52,000
that you don't see illuminated are they

192
00:06:54,950 --> 00:06:53,440
alarms are they just simply things that

193
00:06:56,950 --> 00:06:54,960
are normally on that are off they're

194
00:06:59,670 --> 00:06:56,960
just lights that basically indicate the

195
00:07:01,270 --> 00:06:59,680
availability of hot or ambient water

196
00:07:03,189 --> 00:07:01,280
okay thanks

197
00:07:07,749 --> 00:07:03,199
robert

198
00:07:10,550 --> 00:07:07,759
um i know on the schedule that uh that

199
00:07:12,230 --> 00:07:10,560
the ingress into mrm1 is on thursday on

200
00:07:14,230 --> 00:07:12,240
flight day seven

201
00:07:16,790 --> 00:07:14,240
but if i remember correctly it's only

202
00:07:18,790 --> 00:07:16,800
going to be in a brief ingress can you

203
00:07:21,510 --> 00:07:18,800
just lay out what the schedule is for

204
00:07:23,670 --> 00:07:21,520
setting up mrm1 and when it'll be fully

205
00:07:26,950 --> 00:07:23,680
when do you expect it to be fully

206
00:07:29,510 --> 00:07:26,960
set up and operational certainly

207
00:07:31,749 --> 00:07:29,520
tomorrow actually they'll do the initial

208
00:07:33,510 --> 00:07:31,759
hatch opening in order to

209
00:07:35,589 --> 00:07:33,520
put in the air filters and and cleanse

210
00:07:37,270 --> 00:07:35,599
the air in the module

211
00:07:38,790 --> 00:07:37,280
they basically open the hatch take out

212
00:07:39,830 --> 00:07:38,800
just enough stuff to get a filter and a

213
00:07:41,589 --> 00:07:39,840

fan in there and then they close the

214
00:07:42,550 --> 00:07:41,599
hatch again and let the filter do its

215
00:07:44,390 --> 00:07:42,560
thing

216
00:07:46,469 --> 00:07:44,400
then a couple of days later

217
00:07:48,230 --> 00:07:46,479
we'll open it up enough to get clamps

218
00:07:49,749 --> 00:07:48,240
installed we have in addition to the two

219
00:07:51,589 --> 00:07:49,759
sets of hooks holding the module to the

220
00:07:54,070 --> 00:07:51,599
space station right now we also install

221
00:07:55,589 --> 00:07:54,080
a set of clamps that

222
00:07:56,950 --> 00:07:55,599
we'll be installing here later in the

223
00:07:58,790 --> 00:07:56,960
week that's part of that ingress that

224
00:08:02,869 --> 00:07:58,800
you were referring to

225
00:08:04,309 --> 00:08:02,879
and then beyond that on flight day eight

226
00:08:06,710 --> 00:08:04,319
we have

227
00:08:08,629 --> 00:08:06,720
the slightest amount of time available

228
00:08:09,350 --> 00:08:08,639
for some of the

229
00:08:11,670 --> 00:08:09,360
some

230
00:08:13,990 --> 00:08:11,680
beginnings of preparing preparing for

231
00:08:16,710 --> 00:08:14,000
transferring the cargo out of the module

232
00:08:20,469 --> 00:08:16,720
the cargo is launched on these large

233
00:08:21,990 --> 00:08:20,479
metal racks that are

234
00:08:23,670 --> 00:08:22,000
for lack of a better way of describing

235
00:08:25,990 --> 00:08:23,680
it just kind of slices through the

236
00:08:27,430 --> 00:08:26,000
module you take the cargo off of one of

237
00:08:28,950 --> 00:08:27,440
those racks then you get the rack out

238
00:08:31,110 --> 00:08:28,960

and you throw the rack away so it's

239
00:08:32,870 --> 00:08:31,120
destined for the progress and that's a

240
00:08:34,949 --> 00:08:32,880
somewhat time consuming job and the crew

241
00:08:36,389 --> 00:08:34,959
asked if they could start getting a jump

242
00:08:37,990 --> 00:08:36,399
on that during the docked mission so

243
00:08:41,509 --> 00:08:38,000
we've made some time for them to to

244
00:08:43,589 --> 00:08:41,519
begin that process mostly because aleg

245
00:08:45,190 --> 00:08:43,599
and tj who wanted to to get to work on

246
00:08:47,190 --> 00:08:45,200
that they'll be leaving shortly after

247
00:08:49,750 --> 00:08:47,200
the shuttle undocks and they wanted to

248
00:08:52,230 --> 00:08:49,760
to try to get as much of mrm1 up and

249
00:08:54,710 --> 00:08:52,240
running before they left as possible

250
00:08:56,790 --> 00:08:54,720
in terms of getting mrm1

251
00:09:00,150 --> 00:08:56,800
in a final configuration our deadline

252
00:09:01,990 --> 00:09:00,160
for that is when we have the uh

253
00:09:04,230 --> 00:09:02,000
the next soyuz docking because it will

254
00:09:05,670 --> 00:09:04,240
dock to mrm1 and we've got to get the

255
00:09:07,670 --> 00:09:05,680
cargo out of the way in order for the

256
00:09:09,350 --> 00:09:07,680
crew to make it through from the soyuz

257
00:09:11,350 --> 00:09:09,360
through immune one into the station and

258
00:09:12,710 --> 00:09:11,360
so rather than make them dig themselves

259
00:09:15,990 --> 00:09:12,720
out we're going to try to clear that

260
00:09:20,550 --> 00:09:16,710
and

261
00:09:24,070 --> 00:09:20,560
me if i am today was the first major use

262
00:09:25,670 --> 00:09:24,080
of the robotic workstation in the cupola

263
00:09:27,430 --> 00:09:25,680

did you get any notes from the crew

264
00:09:28,630 --> 00:09:27,440
afterwards about how that worked if

265
00:09:29,910 --> 00:09:28,640
there was any

266
00:09:31,829 --> 00:09:29,920
additional work that needs to be done in

267
00:09:32,550 --> 00:09:31,839
terms of reconfiguration or

268
00:09:36,630 --> 00:09:32,560
if

269
00:09:39,350 --> 00:09:36,640
as they anticipated to be

270
00:09:40,790 --> 00:09:39,360
absolutely this was i i guess it depends

271
00:09:42,150 --> 00:09:40,800
on what you call major we of course have

272
00:09:43,509 --> 00:09:42,160
used it three days in a row now because

273
00:09:44,790 --> 00:09:43,519
we've used it every day of the docked

274
00:09:47,110 --> 00:09:44,800
mission so far

275
00:09:49,350 --> 00:09:47,120
i will note one thing

276
00:09:51,190 --> 00:09:49,360
the views were apparently stunning

277
00:09:52,949 --> 00:09:51,200
enough that they forgot to have the

278
00:09:54,710 --> 00:09:52,959
cameras follow the module we had to call

279
00:09:56,389 --> 00:09:54,720
them up and say um we don't have windows

280
00:09:57,750 --> 00:09:56,399
so could you please move the camera so

281
00:10:00,870 --> 00:09:57,760
that we can actually see what's going on

282
00:10:02,870 --> 00:10:00,880
or we're happy to do it for you

283
00:10:04,389 --> 00:10:02,880
i haven't gotten any comments back about

284
00:10:06,550 --> 00:10:04,399
the

285
00:10:08,630 --> 00:10:06,560
configuration itself

286
00:10:10,230 --> 00:10:08,640
we'll certainly be asking some some

287
00:10:12,630 --> 00:10:10,240
detailed questions once we begin the

288
00:10:14,230 --> 00:10:12,640

debriefs at this point we're basically

289
00:10:16,150 --> 00:10:14,240
looking forward more than we are looking

290
00:10:17,910 --> 00:10:16,160
back and there have apparently been no

291
00:10:21,350 --> 00:10:17,920
problems i'm sure they would have let us

292
00:10:24,870 --> 00:10:23,269
okay let's go to the phone bridge couple

293
00:10:27,910 --> 00:10:24,880
of reporters clara moskowitz of

294
00:10:33,190 --> 00:10:31,350
yes hi um i'm wondering with the cable

295
00:10:35,190 --> 00:10:33,200
task that you've added to the eva

296
00:10:37,030 --> 00:10:35,200
tomorrow um how much time has been

297
00:10:38,710 --> 00:10:37,040
allotted for that task and does that

298
00:10:41,030 --> 00:10:38,720
mean that the overall spacewalk time has

299
00:10:42,790 --> 00:10:41,040
been extended at all

300
00:10:45,190 --> 00:10:42,800
a good question we

301
00:10:46,870 --> 00:10:45,200
are estimating that that task will take

302
00:10:49,430 --> 00:10:46,880
somewhere between 20 and 30 minutes

303
00:10:52,069 --> 00:10:49,440
we're hoping obviously on the on the 20

304
00:10:55,590 --> 00:10:52,079
side of things prior to our level one

305
00:10:57,990 --> 00:10:55,600
flight readiness review our agency-wide

306
00:10:59,990 --> 00:10:58,000
flight readiness review we had 30

307
00:11:02,150 --> 00:11:00,000
minutes book kept in this eva timeline

308
00:11:04,230 --> 00:11:02,160
for another task basically putting away

309
00:11:06,710 --> 00:11:04,240
a battery that was is going to be

310
00:11:07,430 --> 00:11:06,720
temporarily stowed on the truss

311
00:11:09,590 --> 00:11:07,440
we

312
00:11:11,269 --> 00:11:09,600
uh through further analysis determined

313
00:11:13,350 --> 00:11:11,279

that we did not need to put the battery

314
00:11:15,350 --> 00:11:13,360
away so we were saving ourselves that 30

315
00:11:17,910 --> 00:11:15,360
minutes in our timeline

316
00:11:20,550 --> 00:11:17,920
which was giving us

317
00:11:21,269 --> 00:11:20,560
a better chance of getting more battery

318
00:11:24,069 --> 00:11:21,279
our

319
00:11:26,310 --> 00:11:24,079
exchanges completed during this eva

320
00:11:27,910 --> 00:11:26,320
so basically where we are by adding this

321
00:11:29,509 --> 00:11:27,920
task that we're allotting up to 30

322
00:11:30,870 --> 00:11:29,519
minutes for at the beginning of the eva

323
00:11:32,630 --> 00:11:30,880
is we're back where we were a couple of

324
00:11:34,949 --> 00:11:32,640
weeks ago before we eliminated that

325
00:11:37,910 --> 00:11:34,959
30-minute task

326
00:11:40,310 --> 00:11:37,920
so we are still hopeful that we'll at

327
00:11:43,030 --> 00:11:40,320
least accomplish three battery exchanges

328
00:11:45,910 --> 00:11:43,040
between the icc and the truss

329
00:11:47,750 --> 00:11:45,920
we are willing to extend the eva in

330
00:11:50,230 --> 00:11:47,760
order to try to accomplish a fourth

331
00:11:54,230 --> 00:11:50,240
battery exchange which is not only

332
00:11:56,230 --> 00:11:54,240
getting a battery from the truss to the

333
00:11:57,829 --> 00:11:56,240
to the carrier but also from the carrier

334
00:11:59,910 --> 00:11:57,839
to the truss it's important to us that

335
00:12:03,990 --> 00:11:59,920
we we fill the hole on the truss and not

336
00:12:07,590 --> 00:12:06,150
but beyond that we'll just have to see

337
00:12:09,350 --> 00:12:07,600
we think we're in at least the same

338
00:12:10,949 --> 00:12:09,360

config we were a couple of weeks ago

339
00:12:13,509 --> 00:12:10,959
maybe not as good as we were a couple of

340
00:12:17,190 --> 00:12:15,590
okay and are both spacewalkers going to

341
00:12:20,710 --> 00:12:17,200
be working on that task

342
00:12:22,790 --> 00:12:20,720
no we'll send steve will stop off at the

343
00:12:25,269 --> 00:12:22,800
the cart where the foot restraint is and

344
00:12:28,230 --> 00:12:25,279
he will take care of that while bueno or

345
00:12:31,430 --> 00:12:28,240
mike will go ahead and head out to p6

346
00:12:33,350 --> 00:12:31,440
and begin work on the they each had

347
00:12:36,389 --> 00:12:33,360
tasks to move some foot restraints and

348
00:12:38,790 --> 00:12:36,399
to move some some

349
00:12:41,670 --> 00:12:38,800
spanners that we use during to access

350
00:12:43,590 --> 00:12:41,680
the batteries he will start that task

351
00:12:45,829 --> 00:12:43,600
and hopefully finish up both sets both

352
00:12:47,750 --> 00:12:45,839
his and steve's while steve is working

353
00:12:49,670 --> 00:12:47,760
on the camera

354
00:12:52,550 --> 00:12:49,680
great thank you that's it for me

355
00:12:54,790 --> 00:12:52,560
okay marcia donna the associated press

356
00:12:57,269 --> 00:12:54,800
uh yes hello um

357
00:12:59,829 --> 00:12:57,279
assuming that you do get the cable

358
00:13:01,670 --> 00:12:59,839
untangled and everything is fine um when

359
00:13:03,430 --> 00:13:01,680
do you expect to add

360
00:13:04,949 --> 00:13:03,440
an inspection

361
00:13:06,710 --> 00:13:04,959
of the shuttle will you try to squeeze

362
00:13:09,350 --> 00:13:06,720
one in might you even extend the mission

363
00:13:11,990 --> 00:13:09,360

to so that can happen

364
00:13:13,590 --> 00:13:12,000
the imagery experts are still evaluating

365
00:13:15,670 --> 00:13:13,600
the data that they currently have to

366
00:13:17,750 --> 00:13:15,680
determine whether we need to do any

367
00:13:19,430 --> 00:13:17,760
further inspections during the docked

368
00:13:21,509 --> 00:13:19,440
mission if we

369
00:13:25,030 --> 00:13:21,519
are successful in regaining the camera

370
00:13:27,269 --> 00:13:25,040
it is possible that the late inspection

371
00:13:29,350 --> 00:13:27,279
that the orbiter does after undock will

372
00:13:31,590 --> 00:13:29,360
be sufficient

373
00:13:33,829 --> 00:13:31,600
at this time i don't have the latest in

374
00:13:36,790 --> 00:13:33,839
terms of the few there were four or five

375
00:13:38,710 --> 00:13:36,800
spots that that areas of the shuttle

376
00:13:40,870 --> 00:13:38,720
that had not been fully inspected by the

377
00:13:42,310 --> 00:13:40,880
flight day two inspection that they were

378
00:13:44,150 --> 00:13:42,320
still

379
00:13:45,829 --> 00:13:44,160
determining whether they needed a camera

380
00:13:46,829 --> 00:13:45,839
view of or not

381
00:13:48,389 --> 00:13:46,839
and

382
00:13:50,150 --> 00:13:48,399
um

383
00:13:52,069 --> 00:13:50,160
so i think really we're kind of waiting

384
00:13:53,910 --> 00:13:52,079
to see if we are successful with the

385
00:13:56,150 --> 00:13:53,920
camera such that we can gain confidence

386
00:13:58,550 --> 00:13:56,160
that they'll get a full and complete

387
00:13:59,910 --> 00:13:58,560
late inspection on flight day 11 and

388
00:14:01,509 --> 00:13:59,920

that would

389
00:14:03,509 --> 00:14:01,519
potentially mean that we wouldn't need

390
00:14:04,870 --> 00:14:03,519
to get any more views if we needed to

391
00:14:06,230 --> 00:14:04,880
get more views during the docked mission

392
00:14:07,750 --> 00:14:06,240
we're looking at either flight day seven

393
00:14:09,430 --> 00:14:07,760
or flight day nine obviously the days

394
00:14:11,910 --> 00:14:09,440
when we're not outside

395
00:14:13,590 --> 00:14:11,920
flight day nine perhaps has the least

396
00:14:15,670 --> 00:14:13,600
impact to our robotic plan but flight

397
00:14:18,150 --> 00:14:15,680
day seven has some time available so

398
00:14:20,310 --> 00:14:18,160
we're still weighing those options

399
00:14:22,470 --> 00:14:20,320
thank you and i'm wondering what is the

400
00:14:26,310 --> 00:14:22,480
thinking for why

401
00:14:27,829 --> 00:14:26,320
the antenna is not flush on the boom it

402
00:14:30,949 --> 00:14:27,839
could it be misaligned or is there

403
00:14:32,230 --> 00:14:30,959
something with the bolts or

404
00:14:35,110 --> 00:14:32,240
what's

405
00:14:37,829 --> 00:14:35,120
what what is the thinking behind this

406
00:14:39,430 --> 00:14:37,839
a couple of theories

407
00:14:41,189 --> 00:14:39,440
as is frequently the case when you're

408
00:14:43,990 --> 00:14:41,199
putting hardware together in space a lot

409
00:14:45,990 --> 00:14:44,000
of it comes down to thermal properties

410
00:14:48,470 --> 00:14:46,000
one of the i think the leading contender

411
00:14:50,790 --> 00:14:48,480
in terms of theories right now is that

412
00:14:52,470 --> 00:14:50,800
while these are two flat plates they do

413
00:14:54,870 --> 00:14:52,480

have kind of

414
00:14:56,870 --> 00:14:54,880
guide pins inside them that that that

415
00:14:59,910 --> 00:14:56,880
help you fit it together

416
00:15:02,949 --> 00:14:59,920
and that perhaps the they were not

417
00:15:03,990 --> 00:15:02,959
between the two of them thermally

418
00:15:06,710 --> 00:15:04,000
equal

419
00:15:08,710 --> 00:15:06,720
such that the pins were

420
00:15:11,110 --> 00:15:08,720
expanded greater than the holes would

421
00:15:14,069 --> 00:15:11,120
allow and so they were not able to push

422
00:15:16,150 --> 00:15:14,079
it all the way into the holes and so

423
00:15:17,910 --> 00:15:16,160
if we're not able to of course now

424
00:15:18,710 --> 00:15:17,920
everything should be

425
00:15:20,230 --> 00:15:18,720
at

426
00:15:22,310 --> 00:15:20,240
thermal equilibrium between the two

427
00:15:23,670 --> 00:15:22,320
surfaces we should be able to go in

428
00:15:26,550 --> 00:15:23,680
there and

429
00:15:28,389 --> 00:15:26,560
ratchet the the four bolts down

430
00:15:30,230 --> 00:15:28,399
if not we're looking at pulling them out

431
00:15:32,230 --> 00:15:30,240
just a couple of turns and and

432
00:15:35,110 --> 00:15:32,240
ratcheting them down with a higher

433
00:15:37,829 --> 00:15:35,120
torque in hopes that everything is now

434
00:15:39,030 --> 00:15:37,839
nice and flush and and won't pose any

435
00:15:41,269 --> 00:15:39,040
issues

436
00:15:42,310 --> 00:15:41,279
and and what's the plan c in case you

437
00:15:44,470 --> 00:15:42,320
can't

438
00:15:46,629 --> 00:15:44,480

get a flush surface um

439
00:15:49,430 --> 00:15:46,639
then what with the tether that we

440
00:15:51,030 --> 00:15:49,440
installed on eva 1 in place it's

441
00:15:53,110 --> 00:15:51,040
structurally sound to the point that we

442
00:15:56,790 --> 00:15:53,120
don't have any concerns for the

443
00:15:57,910 --> 00:15:56,800
integrity of the the antenna or the

444
00:16:00,710 --> 00:15:57,920
the dish

445
00:16:02,310 --> 00:16:00,720
coming off and so as long as that tether

446
00:16:03,990 --> 00:16:02,320
is in place that was our tie down plan

447
00:16:05,509 --> 00:16:04,000
if we were unsuccessful with getting the

448
00:16:06,550 --> 00:16:05,519
bolts at all

449
00:16:09,269 --> 00:16:06,560
and so

450
00:16:10,949 --> 00:16:09,279
we would leave the tether in place and

451
00:16:12,550 --> 00:16:10,959
try to come up with another backup plan

452
00:16:14,310 --> 00:16:12,560
at a later date

453
00:16:17,110 --> 00:16:14,320
thank you very much

454
00:16:19,509 --> 00:16:17,120
okay any questions back here in houston

455
00:16:21,670 --> 00:16:19,519
i think that exhausts the questions so

456
00:16:23,829 --> 00:16:21,680
we'll close with a few programming notes

457
00:16:25,670 --> 00:16:23,839
atlantis's astronauts begin their sleep

458
00:16:28,150 --> 00:16:25,680
period 30 minutes earlier than

459
00:16:30,870 --> 00:16:28,160
previously planned tonight bedtime will

460
00:16:32,550 --> 00:16:30,880
be at 5 20 p.m central time

461
00:16:34,310 --> 00:16:32,560
that will clear the way for the airing

462
00:16:36,389 --> 00:16:34,320
of our flight day highlights on nasa

463
00:16:38,629 --> 00:16:36,399

television beginning at 6 pm central

464
00:16:40,150 --> 00:16:38,639
time those will be replayed every hour

465
00:16:43,350 --> 00:16:40,160
on the hour throughout the crew sleep

466
00:16:45,430 --> 00:16:43,360
period the iss orbit 3 flight director

467
00:16:47,590 --> 00:16:45,440
scott stover who's on console as we

468
00:16:49,590 --> 00:16:47,600
speak will provide his nightly update to

469
00:16:51,910 --> 00:16:49,600
look ahead at future activities at 11

470
00:16:53,670 --> 00:16:51,920
p.m central time tonight and the wake-up

471
00:16:56,230 --> 00:16:53,680
call for flight day six on the shuttle

472
00:16:58,389 --> 00:16:56,240
station complex will be at 1 20 a.m

473
00:17:00,150 --> 00:16:58,399
central time on wednesday to set the

474
00:17:02,550 --> 00:17:00,160
stage for the second spacewalk of the

475
00:17:05,350 --> 00:17:02,560
flight by steve bowen and mike good set

476
00:17:07,270 --> 00:17:05,360
to begin around 6 15 a.m central time or

477
00:17:09,750 --> 00:17:07,280
earlier if the crew is running ahead of

478
00:17:11,429 --> 00:17:09,760
schedule you can follow all of the work

479
00:17:16,309 --> 00:17:11,439
on the shuttle station complex with the

480
00:17:19,390 --> 00:17:17,510
with that we'll go back to mission