



1  
00:00:08,549 --> 00:00:06,710  
well good afternoon everybody and

2  
00:00:10,790 --> 00:00:08,559  
welcome to nasa's johnson space center

3  
00:00:12,870 --> 00:00:10,800  
we're here for the post mission

4  
00:00:15,749 --> 00:00:12,880  
management team press briefing the first

5  
00:00:17,189 --> 00:00:15,759  
of several that we'll conduct throughout

6  
00:00:19,910 --> 00:00:17,199  
mission to the international space

7  
00:00:21,990 --> 00:00:19,920  
station the sts-135 flight

8  
00:00:24,710 --> 00:00:22,000  
joining us is the chairman of the mmt

9  
00:00:26,790 --> 00:00:24,720  
leroy kane he's also the deputy manager

10  
00:00:29,429 --> 00:00:26,800  
of the space shuttle program he'll tell

11  
00:00:31,269 --> 00:00:29,439  
you all about the mmt meeting today and

12  
00:00:33,190 --> 00:00:31,279  
then we'll throw it open for questions

13  
00:00:35,110 --> 00:00:33,200

with that alternative with leroy

14

00:00:36,709 --> 00:00:35,120

okay thank you kyle and good afternoon

15

00:00:38,950 --> 00:00:36,719

it's great to be here

16

00:00:40,790 --> 00:00:38,960

we i want to start out by

17

00:00:42,310 --> 00:00:40,800

congratulating the entire space shuttle

18

00:00:44,709 --> 00:00:42,320

program team and the folks across the

19

00:00:46,709 --> 00:00:44,719

country that make it possible for us to

20

00:00:47,990 --> 00:00:46,719

execute these missions

21

00:00:50,709 --> 00:00:48,000

the

22

00:00:51,750 --> 00:00:50,719

launch yesterday was flawless and since

23

00:00:54,069 --> 00:00:51,760

then

24

00:00:55,430 --> 00:00:54,079

atlantis has been performing outstanding

25

00:00:57,430 --> 00:00:55,440

on orbit

26

00:00:59,910 --> 00:00:57,440

but the entire team that prepared

27

00:01:03,110 --> 00:00:59,920

atlantis and the entire sts vehicle to

28

00:01:04,549 --> 00:01:03,120

be ready to fly yesterday deserves a

29

00:01:07,270 --> 00:01:04,559

great

30

00:01:08,630 --> 00:01:07,280

pat on the back they work very hard as

31

00:01:09,429 --> 00:01:08,640

they always do

32

00:01:11,830 --> 00:01:09,439

and

33

00:01:13,830 --> 00:01:11,840

we've been determined to finish strong

34

00:01:16,310 --> 00:01:13,840

and this is a good beginning of

35

00:01:17,990 --> 00:01:16,320

finishing strong on this last mission so

36

00:01:19,350 --> 00:01:18,000

just a great job by the entire

37

00:01:21,990 --> 00:01:19,360

processing team down at the kennedy

38

00:01:24,390 --> 00:01:22,000

space center a fantastic job by the

39

00:01:26,710 --> 00:01:24,400

entire engineering and safety teams who

40

00:01:29,270 --> 00:01:26,720

who got us prepared to go fly this

41

00:01:30,950 --> 00:01:29,280

mission we did have coming off of

42

00:01:33,350 --> 00:01:30,960

sts-134

43

00:01:35,830 --> 00:01:33,360

we had a few issues not even issues but

44

00:01:37,429 --> 00:01:35,840

we had a few items things that we needed

45

00:01:38,789 --> 00:01:37,439

to disposition and

46

00:01:40,469 --> 00:01:38,799

work through and the team did their

47

00:01:42,710 --> 00:01:40,479

usual outstanding

48

00:01:44,310 --> 00:01:42,720

rigorous job and

49

00:01:45,749 --> 00:01:44,320

and

50

00:01:47,030 --> 00:01:45,759

due diligence

51

00:01:48,630 --> 00:01:47,040

and allowing us to be able to

52

00:01:49,990 --> 00:01:48,640

disposition those items and be able to

53

00:01:51,910 --> 00:01:50,000

go fly again

54

00:01:53,190 --> 00:01:51,920

and so again

55

00:01:56,630 --> 00:01:53,200

between the folks that prepare the

56

00:01:58,950 --> 00:01:56,640

vehicle and and the the rest of the team

57

00:02:01,510 --> 00:01:58,960

who prepare the crew and the flight

58

00:02:03,429 --> 00:02:01,520

control team and the launch team

59

00:02:06,149 --> 00:02:03,439

the engineering team that helps us work

60

00:02:08,949 --> 00:02:06,159

through the issues in the safety team

61

00:02:11,589 --> 00:02:08,959

just across the board uh just

62

00:02:14,309 --> 00:02:11,599

a fantastic effort by the entire team

63

00:02:16,869 --> 00:02:14,319

and again in keeping with our

64

00:02:20,229 --> 00:02:16,879

our uh our promise to ourselves really

65

00:02:22,869 --> 00:02:20,239

um to uh to finish strong this was a a

66

00:02:24,710 --> 00:02:22,879

great first step we really put a uh our

67

00:02:25,990 --> 00:02:24,720

best foot forward on this mission in

68

00:02:27,270 --> 00:02:26,000

terms of the way we started off the

69

00:02:30,550 --> 00:02:27,280

mission yesterday

70

00:02:31,990 --> 00:02:30,560

in in the launch of atlantis the um

71

00:02:33,589 --> 00:02:32,000

the team had to work through a couple

72

00:02:36,150 --> 00:02:33,599

issues and i know you probably talked

73

00:02:37,430 --> 00:02:36,160

heard some talk about those but the the

74

00:02:38,790 --> 00:02:37,440

mission operations team did an

75

00:02:40,070 --> 00:02:38,800

outstanding job

76

00:02:41,910 --> 00:02:40,080

working through

77

00:02:44,229 --> 00:02:41,920

and evaluating the weather

78

00:02:46,470 --> 00:02:44,239

and uh the launch team the same thing

79

00:02:48,150 --> 00:02:46,480

for the launch weather uh as it turned

80

00:02:49,589 --> 00:02:48,160

out the uh the weather turned out to be

81

00:02:51,990 --> 00:02:49,599

a little bit more of a challenge for the

82

00:02:54,550 --> 00:02:52,000

the landing the abort landing

83

00:02:56,229 --> 00:02:54,560

um scenarios and so the the mission ops

84

00:02:57,910 --> 00:02:56,239

team here in houston is responsible for

85

00:02:59,350 --> 00:02:57,920

those aspects of the of the launch

86

00:03:01,910 --> 00:02:59,360

weather and the in

87

00:03:03,670 --> 00:03:01,920

in the landing weather decisions and so

88

00:03:05,190 --> 00:03:03,680

just a great job by that team as well in

89

00:03:07,030 --> 00:03:05,200

terms of us being able to get launched

90

00:03:08,949 --> 00:03:07,040

yesterday so

91

00:03:11,350 --> 00:03:08,959

a hearty congratulations to the entire

92

00:03:13,110 --> 00:03:11,360

team we couldn't be happier

93

00:03:14,790 --> 00:03:13,120

with the way we started off this mission

94

00:03:16,470 --> 00:03:14,800

so

95

00:03:17,670 --> 00:03:16,480

with that we

96

00:03:19,910 --> 00:03:17,680

we did talk in the mission management

97

00:03:22,550 --> 00:03:19,920

team today it was a fairly brief

98

00:03:24,550 --> 00:03:22,560

discussion because as i said atlantis is

99

00:03:25,670 --> 00:03:24,560

performing outstanding on orbit

100

00:03:28,309 --> 00:03:25,680

the um

101  
00:03:29,990 --> 00:03:28,319  
the crew is doing great they're in great

102  
00:03:30,949 --> 00:03:30,000  
spirits they're in great health in fact

103  
00:03:34,789 --> 00:03:30,959  
they're

104  
00:03:36,309 --> 00:03:34,799  
they canceled their uh normally

105  
00:03:38,149 --> 00:03:36,319  
scheduled uh

106  
00:03:40,309 --> 00:03:38,159  
private medical conference that that

107  
00:03:41,990 --> 00:03:40,319  
they had slated for last night

108  
00:03:43,509 --> 00:03:42,000  
and so they're just doing really well

109  
00:03:45,750 --> 00:03:43,519  
and today was a great day for them on

110  
00:03:47,190 --> 00:03:45,760  
orbit they've completed all their tasks

111  
00:03:48,789 --> 00:03:47,200  
up to this point in the timeline i think

112  
00:03:50,710 --> 00:03:48,799  
they go to sleep in a few hours here at

113  
00:03:52,309 --> 00:03:50,720

about 6 30 local time

114

00:03:55,509 --> 00:03:52,319

um but today the big activities were

115

00:03:57,110 --> 00:03:55,519

that were completing the uh

116

00:03:58,630 --> 00:03:57,120

the wing leading edge and nose cap

117

00:04:00,550 --> 00:03:58,640

surveys that we do

118

00:04:02,309 --> 00:04:00,560

on the on the thermal protection system

119

00:04:04,229 --> 00:04:02,319

and so all of those surveys are complete

120

00:04:05,670 --> 00:04:04,239

the boom is is birthed

121

00:04:07,589 --> 00:04:05,680

and um

122

00:04:09,270 --> 00:04:07,599

the the crew is off doing some other

123

00:04:10,949 --> 00:04:09,280

activities in preparation for rendezvous

124

00:04:12,149 --> 00:04:10,959

and docking tomorrow before they go to

125

00:04:14,070 --> 00:04:12,159

sleep tonight

126

00:04:15,990 --> 00:04:14,080

so all of the survey activity went quite

127

00:04:18,150 --> 00:04:16,000

well they they were far ahead in the

128

00:04:19,509 --> 00:04:18,160

timeline the entire time today

129

00:04:21,909 --> 00:04:19,519

they um

130

00:04:23,110 --> 00:04:21,919

uh worked on getting those images

131

00:04:25,110 --> 00:04:23,120

downlinked

132

00:04:26,870 --> 00:04:25,120

and so we'll have all that data on the

133

00:04:28,710 --> 00:04:26,880

ground by uh by

134

00:04:30,070 --> 00:04:28,720

sometime during the crucial period

135

00:04:32,150 --> 00:04:30,080

tonight we'll have the the remaining

136

00:04:33,030 --> 00:04:32,160

portions of that data on the ground

137

00:04:35,830 --> 00:04:33,040

um

138

00:04:38,390 --> 00:04:35,840

the the other data that we normally have

139

00:04:39,590 --> 00:04:38,400

uh imagery data from the ground cameras

140

00:04:41,830 --> 00:04:39,600

from the e.t

141

00:04:43,670 --> 00:04:41,840

umbilical well cameras the

142

00:04:45,590 --> 00:04:43,680

handheld

143

00:04:47,830 --> 00:04:45,600

images that the crew takes the what we

144

00:04:50,790 --> 00:04:47,840

call the et digital stills

145

00:04:52,710 --> 00:04:50,800

those are are down at the ground

146

00:04:55,590 --> 00:04:52,720

and so we're on our normal timeline

147

00:04:57,270 --> 00:04:55,600

where our data gathering is concerned

148

00:04:59,510 --> 00:04:57,280

with respect to all the imagery data

149

00:05:02,150 --> 00:04:59,520

that we expect to have at this point so

150

00:05:04,790 --> 00:05:02,160

all of that is

151  
00:05:07,430 --> 00:05:04,800  
is going very well and as i mentioned

152  
00:05:09,350 --> 00:05:07,440  
the crew is is at a very full and busy

153  
00:05:10,870 --> 00:05:09,360  
but very productive day and

154  
00:05:13,110 --> 00:05:10,880  
and they've been ahead of the timeline

155  
00:05:14,070 --> 00:05:13,120  
the whole day so

156  
00:05:15,830 --> 00:05:14,080  
we

157  
00:05:17,749 --> 00:05:15,840  
don't have any issues as far as

158  
00:05:19,350 --> 00:05:17,759  
anomalies we don't have any anomalies we

159  
00:05:20,790 --> 00:05:19,360  
don't have any significant issues in so

160  
00:05:21,909 --> 00:05:20,800  
much as we don't even hardly have

161  
00:05:22,950 --> 00:05:21,919  
anything that

162  
00:05:25,749 --> 00:05:22,960  
that

163  
00:05:27,909 --> 00:05:25,759

can be listed on the on the funny list

164

00:05:31,430 --> 00:05:27,919

or on the items that were trending and

165

00:05:32,870 --> 00:05:31,440

so the vehicle is extremely clean so we

166

00:05:34,629 --> 00:05:32,880

don't have anything in that regard to

167

00:05:38,550 --> 00:05:34,639

talk about and didn't have anything to

168

00:05:41,110 --> 00:05:38,560

talk about in the mmt on those items

169

00:05:43,029 --> 00:05:41,120

tomorrow we look forward to the the

170

00:05:44,390 --> 00:05:43,039

rendezvous and docking

171

00:05:45,670 --> 00:05:44,400

i think you've probably been told the

172

00:05:48,469 --> 00:05:45,680

times

173

00:05:50,950 --> 00:05:48,479

for those respective activities and so

174

00:05:53,029 --> 00:05:50,960

just in summary it's been a a great

175

00:05:55,590 --> 00:05:53,039

start to this mission and i i couldn't

176  
00:05:56,950 --> 00:05:55,600  
be happier in terms of where we are on

177  
00:05:58,469 --> 00:05:56,960  
orbit the crew is doing great the

178  
00:06:00,070 --> 00:05:58,479  
vehicle is doing great the team on the

179  
00:06:00,950 --> 00:06:00,080  
ground is performing at a very high

180  
00:06:02,070 --> 00:06:00,960  
level

181  
00:06:03,110 --> 00:06:02,080  
and

182  
00:06:05,029 --> 00:06:03,120  
just

183  
00:06:07,590 --> 00:06:05,039  
very happy to be at this point and

184  
00:06:09,189 --> 00:06:07,600  
looking forward to docking tomorrow so

185  
00:06:11,350 --> 00:06:09,199  
with that i'll be happy to answer any

186  
00:06:12,870 --> 00:06:11,360  
questions kyle okay great

187  
00:06:14,390 --> 00:06:12,880  
as you guys see we have a fixed

188  
00:06:16,790 --> 00:06:14,400

microphone so you're gonna have to walk

189

00:06:18,629 --> 00:06:16,800

over to it i know it might be a little

190

00:06:20,150 --> 00:06:18,639

exercise but uh

191

00:06:21,590 --> 00:06:20,160

so everybody can hear you we'll go

192

00:06:23,990 --> 00:06:21,600

around the room here and then take the

193

00:06:26,790 --> 00:06:24,000

phone bridge and start with mark hey

194

00:06:29,590 --> 00:06:26,800

thank you uh mark caro for aviation week

195

00:06:32,950 --> 00:06:29,600

what would the the desired timeline be

196

00:06:34,790 --> 00:06:32,960

for the mmt to have all the imagery uh

197

00:06:37,270 --> 00:06:34,800

from the launch damage assessment

198

00:06:39,749 --> 00:06:37,280

standpoint assessed and

199

00:06:43,029 --> 00:06:39,759

you're able and and you're able to make

200

00:06:46,950 --> 00:06:45,350

well our desire is

201  
00:06:49,590 --> 00:06:46,960  
is somewhere in the flight day four to

202  
00:06:51,029 --> 00:06:49,600  
flight day five time frame mark and i

203  
00:06:52,390 --> 00:06:51,039  
anticipate we'll actually be a little

204  
00:06:53,830 --> 00:06:52,400  
ahead of that timeline in this

205  
00:06:55,510 --> 00:06:53,840  
particular case

206  
00:06:57,909 --> 00:06:55,520  
i think the team is planning on having

207  
00:06:59,830 --> 00:06:57,919  
the as you know tomorrow we'll do the

208  
00:07:01,589 --> 00:06:59,840  
the rendezvous pitch maneuver

209  
00:07:03,430 --> 00:07:01,599  
and we'll get our great

210  
00:07:05,110 --> 00:07:03,440  
imagery from that and all of that will

211  
00:07:07,430 --> 00:07:05,120  
make it to the ground

212  
00:07:08,390 --> 00:07:07,440  
by by about the time we dock tomorrow

213  
00:07:09,830 --> 00:07:08,400

actually

214

00:07:11,430 --> 00:07:09,840

and so the team will start pouring

215

00:07:14,230 --> 00:07:11,440

through that data

216

00:07:17,270 --> 00:07:14,240

we have tentatively scheduled the

217

00:07:19,830 --> 00:07:17,280

focus inspection evaluation meeting for

218

00:07:21,670 --> 00:07:19,840

uh early evening tomorrow

219

00:07:23,430 --> 00:07:21,680

and so that's a

220

00:07:24,870 --> 00:07:23,440

a little ahead of where we actually need

221

00:07:26,469 --> 00:07:24,880

it in terms of

222

00:07:30,390 --> 00:07:26,479

the decisions that we like to be able to

223

00:07:32,309 --> 00:07:30,400

make where the mmt is concerned so um as

224

00:07:34,230 --> 00:07:32,319

it's been the uh

225

00:07:35,990 --> 00:07:34,240

the nature of this mission from the from

226

00:07:37,589 --> 00:07:36,000

t zero um

227

00:07:39,189 --> 00:07:37,599

the the crew and the team on the ground

228

00:07:43,110 --> 00:07:39,199

are pretty much ahead of the timeline so

229

00:07:46,070 --> 00:07:44,110

uh phillips loss with

230

00:07:48,870 --> 00:07:46,080

nasaspaceflight.com could you just uh

231

00:07:49,749 --> 00:07:48,880

provide a status on the srbs in terms of

232

00:07:51,110 --> 00:07:49,759

uh

233

00:07:52,309 --> 00:07:51,120

getting those towed back into part

234

00:07:55,270 --> 00:07:52,319

please

235

00:07:56,830 --> 00:07:55,280

sure the um the boosters are in tow

236

00:07:59,350 --> 00:07:56,840

and they'll make it to the port i

237

00:08:01,670 --> 00:07:59,360

believe tonight with open assessment

238

00:08:05,830 --> 00:08:01,680

tomorrow is what we were briefed today i

239

00:08:08,950 --> 00:08:07,909

i'm dan vergano with usa today

240

00:08:10,469 --> 00:08:08,960

i was just wondering if you could talk a

241

00:08:12,629 --> 00:08:10,479

little bit about the discussion of

242

00:08:13,909 --> 00:08:12,639

extending the mission one day sort of it

243

00:08:15,830 --> 00:08:13,919

might be obvious to you but what does

244

00:08:16,710 --> 00:08:15,840

that get you and what you're thinking

245

00:08:18,950 --> 00:08:16,720

now

246

00:08:20,629 --> 00:08:18,960

okay sure the uh the space station

247

00:08:23,589 --> 00:08:20,639

program would very much like us to

248

00:08:26,150 --> 00:08:23,599

extend today if if at all possible

249

00:08:28,629 --> 00:08:26,160

while we are there we have more hands

250

00:08:30,230 --> 00:08:28,639

that are able to do the work on hand

251  
00:08:31,029 --> 00:08:30,240  
at the international space station and

252  
00:08:33,430 --> 00:08:31,039  
so

253  
00:08:36,149 --> 00:08:33,440  
there's a desire for us to

254  
00:08:37,990 --> 00:08:36,159  
to utilize our four-person crew albeit

255  
00:08:40,709 --> 00:08:38,000  
only four person it is for more people

256  
00:08:41,589 --> 00:08:40,719  
than they'll have when we leave and

257  
00:08:42,949 --> 00:08:41,599  
so

258  
00:08:45,750 --> 00:08:42,959  
right now we're in really good shape

259  
00:08:47,509 --> 00:08:45,760  
relative to working toward the

260  
00:08:48,790 --> 00:08:47,519  
possibility of being able to extend and

261  
00:08:50,790 --> 00:08:48,800  
that is to say

262  
00:08:52,630 --> 00:08:50,800  
more specifically where the cryogenics

263  
00:08:54,470 --> 00:08:52,640

are concerned the reactants that we use

264

00:08:56,310 --> 00:08:54,480

for the for the fuel cells and the power

265

00:08:58,389 --> 00:08:56,320

on the orbiter

266

00:09:01,509 --> 00:08:58,399

we have

267

00:09:03,190 --> 00:09:01,519

23 hours of margin and that doesn't

268

00:09:04,790 --> 00:09:03,200

quite factor in where we know we're

269

00:09:06,070 --> 00:09:04,800

going to get some buybacks from what we

270

00:09:08,470 --> 00:09:06,080

didn't use

271

00:09:10,230 --> 00:09:08,480

on asset and launch day that just hasn't

272

00:09:11,829 --> 00:09:10,240

been all calculated and computed in the

273

00:09:13,430 --> 00:09:11,839

spreadsheet yet so

274

00:09:16,550 --> 00:09:13,440

i feel pretty good about where we are in

275

00:09:18,949 --> 00:09:16,560

terms of uh um

276

00:09:20,790 --> 00:09:18,959

being able to possibly extend today if

277

00:09:23,110 --> 00:09:20,800

if we keep heading down this path and

278

00:09:24,550 --> 00:09:23,120

and things continue to go well for us

279

00:09:26,070 --> 00:09:24,560

then i think we'll have an opportunity

280

00:09:28,470 --> 00:09:26,080

to make that decision in a couple of

281

00:09:35,350 --> 00:09:31,590

denise

282

00:09:37,030 --> 00:09:35,360

wondering if there was a need to have a

283

00:09:39,430 --> 00:09:37,040

focused inspection where that would fit

284

00:09:40,949 --> 00:09:39,440

in in the mission timeline

285

00:09:42,710 --> 00:09:40,959

we would do it in all likelihood on

286

00:09:44,150 --> 00:09:42,720

flight day six

287

00:09:45,590 --> 00:09:44,160

we have

288

00:09:47,269 --> 00:09:45,600

in in

289

00:09:49,269 --> 00:09:47,279

sort of

290

00:09:51,110 --> 00:09:49,279

a standby version of the flight plan we

291

00:09:53,030 --> 00:09:51,120

have it penciled in on flight day six

292

00:09:54,790 --> 00:09:53,040

and so that looks like the best place to

293

00:09:56,630 --> 00:09:54,800

do it relative to the other activities

294

00:09:57,990 --> 00:09:56,640

that we have planned

295

00:09:59,910 --> 00:09:58,000

um and just to follow up i was wondering

296

00:10:01,910 --> 00:09:59,920

if you could explain um how challenging

297

00:10:03,829 --> 00:10:01,920

it is to do the inspections from today

298

00:10:05,430 --> 00:10:03,839

with a four-person crew as opposed to

299

00:10:07,350 --> 00:10:05,440

six or seven

300

00:10:08,870 --> 00:10:07,360

well that's a good question because as

301  
00:10:11,430 --> 00:10:08,880  
you know we normally do have some more

302  
00:10:12,710 --> 00:10:11,440  
hands on board and uh

303  
00:10:15,750 --> 00:10:12,720  
but i'm happy to report that our

304  
00:10:17,910 --> 00:10:15,760  
four-person crew is is performing um

305  
00:10:19,750 --> 00:10:17,920  
quite well as i mentioned earlier and uh

306  
00:10:21,910 --> 00:10:19,760  
staying ahead of the timeline and that's

307  
00:10:23,110 --> 00:10:21,920  
saying a lot for flight day two flight

308  
00:10:24,870 --> 00:10:23,120  
day two

309  
00:10:26,389 --> 00:10:24,880  
is one of the most challenging days of

310  
00:10:27,670 --> 00:10:26,399  
the mission in terms of all of the

311  
00:10:29,030 --> 00:10:27,680  
activities that are required to be

312  
00:10:29,910 --> 00:10:29,040  
completed

313  
00:10:33,750 --> 00:10:29,920

and

314

00:10:35,829 --> 00:10:33,760

been able to do that throughout the day

315

00:10:37,509 --> 00:10:35,839

and stay ahead of the timeline

316

00:10:39,829 --> 00:10:37,519

there's a there are a lot of things that

317

00:10:41,829 --> 00:10:39,839

have to be set up in terms of

318

00:10:42,710 --> 00:10:41,839

cameras and positioning for the robotics

319

00:10:46,949 --> 00:10:42,720

work

320

00:10:49,910 --> 00:10:46,959

scan the entire leading edge and the

321

00:10:51,030 --> 00:10:49,920

nose cap and do all of the cabin surveys

322

00:10:52,790 --> 00:10:51,040

that we do

323

00:10:54,470 --> 00:10:52,800

with the with the robotics and the

324

00:10:57,030 --> 00:10:54,480

cameras and so

325

00:10:58,630 --> 00:10:57,040

it is a difficult thing to do with only

326

00:11:01,670 --> 00:10:58,640

a couple of people

327

00:11:03,110 --> 00:11:01,680

and um normally we have a couple more

328

00:11:04,310 --> 00:11:03,120

people that are able to look over their

329

00:11:06,710 --> 00:11:04,320

shoulder and

330

00:11:08,310 --> 00:11:06,720

and and in addition to doing some other

331

00:11:10,710 --> 00:11:08,320

activities that are necessary on flight

332

00:11:11,829 --> 00:11:10,720

day two flight day two is a little bit

333

00:11:14,150 --> 00:11:11,839

like

334

00:11:15,910 --> 00:11:14,160

the follow-up of of setting up the

335

00:11:18,870 --> 00:11:15,920

campsite that you started at the end of

336

00:11:20,389 --> 00:11:18,880

flight day one when you got on orbit so

337

00:11:21,829 --> 00:11:20,399

there's a lot of activity that has to

338

00:11:24,550 --> 00:11:21,839

take place

339

00:11:26,150 --> 00:11:24,560

the inspection activity notwithstanding

340

00:11:27,590 --> 00:11:26,160

and so

341

00:11:28,550 --> 00:11:27,600

again outstanding performance by the

342

00:11:30,710 --> 00:11:28,560

crew

343

00:11:32,870 --> 00:11:30,720

and um they've they've managed to

344

00:11:34,470 --> 00:11:32,880

complete a very very challenging task

345

00:11:36,230 --> 00:11:34,480

with fewer hands than we normally do and

346

00:11:38,790 --> 00:11:36,240

they and they've done it uh without a

347

00:11:42,550 --> 00:11:40,230

let's go to the phone bridge and you

348

00:11:45,509 --> 00:11:42,560

guys can think up some more questions

349

00:11:47,590 --> 00:11:45,519

for our spelling bee microphone there

350

00:11:49,430 --> 00:11:47,600

uh let's see seth bornstein associated

351  
00:11:51,750 --> 00:11:49,440  
press are you on the line seth

352  
00:11:53,590 --> 00:11:51,760  
thank you i had seth bornstein at ap

353  
00:11:55,030 --> 00:11:53,600  
leroy um

354  
00:11:58,150 --> 00:11:55,040  
you talked about um you know no

355  
00:11:59,990 --> 00:11:58,160  
anomalies at all on the list

356  
00:12:01,030 --> 00:12:00,000  
especially given you know how you had a

357  
00:12:02,550 --> 00:12:01,040  
a few

358  
00:12:03,829 --> 00:12:02,560  
last second

359  
00:12:06,550 --> 00:12:03,839  
issues with the beanie cap and

360  
00:12:08,430 --> 00:12:06,560  
everything how unusual is this to be

361  
00:12:12,069 --> 00:12:08,440  
such a clean flight

362  
00:12:15,030 --> 00:12:12,079  
with um you know the crew getting such a

363  
00:12:15,829 --> 00:12:15,040

head start on everything have you seen

364

00:12:17,910 --> 00:12:15,839

this

365

00:12:20,389 --> 00:12:17,920

everything looking so positive

366

00:12:21,990 --> 00:12:20,399

i mean just so clean in the first full

367

00:12:23,990 --> 00:12:22,000

day of flight before

368

00:12:25,190 --> 00:12:24,000

um because i know you've had a lot more

369

00:12:26,069 --> 00:12:25,200

uh

370

00:12:29,110 --> 00:12:26,079

time

371

00:12:31,190 --> 00:12:29,120

on this side than quasi and also

372

00:12:32,870 --> 00:12:31,200

it's i mean does it seem like atlanta

373

00:12:35,190 --> 00:12:32,880

certainly doesn't look and act like a

374

00:12:38,870 --> 00:12:35,200

ship ready for retirement

375

00:12:41,990 --> 00:12:38,880

what do you think this means

376

00:12:44,629 --> 00:12:42,000

let's see your first question seth um

377

00:12:46,629 --> 00:12:44,639

you know we we have been uh very

378

00:12:48,470 --> 00:12:46,639

fortunate and i use the word fortunate

379

00:12:50,069 --> 00:12:48,480

it really is a tribute to the teams that

380

00:12:51,110 --> 00:12:50,079

prepare these vehicles and the teams

381

00:12:56,470 --> 00:12:51,120

that

382

00:12:59,350 --> 00:12:56,480

the missions from a training standpoint

383

00:13:01,670 --> 00:12:59,360

we've been very um very fortunate

384

00:13:02,949 --> 00:13:01,680

for the last several missions really the

385

00:13:09,829 --> 00:13:02,959

the

386

00:13:11,430 --> 00:13:09,839

orbiters

387

00:13:13,750 --> 00:13:11,440

so i'm not at all surprised that

388

00:13:16,389 --> 00:13:13,760

atlantis has performed this well and

389

00:13:17,990 --> 00:13:16,399

we're only a day plus into the mission

390

00:13:19,509 --> 00:13:18,000

here i don't want to get ahead of

391

00:13:22,069 --> 00:13:19,519

ourselves but

392

00:13:23,829 --> 00:13:22,079

getting through launch and ascent and

393

00:13:25,750 --> 00:13:23,839

orbit insertion and getting to this

394

00:13:29,350 --> 00:13:25,760

point in the mission

395

00:13:31,350 --> 00:13:29,360

as flawlessly as as we have is uh

396

00:13:33,110 --> 00:13:31,360

is no small feat and so it is something

397

00:13:34,710 --> 00:13:33,120

to say that atlantis performance has

398

00:13:35,670 --> 00:13:34,720

been this outstanding

399

00:13:37,750 --> 00:13:35,680

um

400

00:13:39,030 --> 00:13:37,760

and but we've seen it before on the

401  
00:13:41,190 --> 00:13:39,040  
other vehicles and we've seen other

402  
00:13:43,190 --> 00:13:41,200  
crews perform the way this crew has

403  
00:13:45,190 --> 00:13:43,200  
performed on flight day two

404  
00:13:47,269 --> 00:13:45,200  
it's just that it is one of our most

405  
00:13:48,790 --> 00:13:47,279  
difficult days and so if there are any

406  
00:13:50,389 --> 00:13:48,800  
other little glitches that go on

407  
00:13:52,470 --> 00:13:50,399  
sometimes we have cable issues with

408  
00:13:54,230 --> 00:13:52,480  
laptop computers or we have

409  
00:13:56,150 --> 00:13:54,240  
other issues associated with getting the

410  
00:13:58,150 --> 00:13:56,160  
things set up as i mentioned setting up

411  
00:13:59,829 --> 00:13:58,160  
the campsite if you want to think about

412  
00:14:01,750 --> 00:13:59,839  
it that way we've had other little

413  
00:14:03,670 --> 00:14:01,760

nuisance kind of things

414

00:14:05,590 --> 00:14:03,680

which aren't in and of themselves

415

00:14:07,189 --> 00:14:05,600

big problems or issues but every one of

416

00:14:08,470 --> 00:14:07,199

those little things takes a little bit

417

00:14:10,870 --> 00:14:08,480

of time

418

00:14:12,629 --> 00:14:10,880

and time is the is the essence of the

419

00:14:14,870 --> 00:14:12,639

real challenges that you that you have

420

00:14:17,910 --> 00:14:14,880

on flight day two so it takes a little

421

00:14:20,069 --> 00:14:17,920

bit of good fortune from that standpoint

422

00:14:21,590 --> 00:14:20,079

and then a lot of hard work before you

423

00:14:23,509 --> 00:14:21,600

ever go fly

424

00:14:25,030 --> 00:14:23,519

by the vast majority of the team that

425

00:14:26,870 --> 00:14:25,040

you don't get an opportunity to talk to

426

00:14:28,550 --> 00:14:26,880

you don't see them generally

427

00:14:29,829 --> 00:14:28,560

but they're out there and they're behind

428

00:14:31,189 --> 00:14:29,839

the scenes and they're really the ones

429

00:14:33,030 --> 00:14:31,199

that are responsible for us being able

430

00:14:35,590 --> 00:14:33,040

to execute like this

431

00:14:38,069 --> 00:14:35,600

uh as far as atlantis performing like

432

00:14:39,910 --> 00:14:38,079

this and getting ready to retire

433

00:14:42,389 --> 00:14:39,920

we've said from the beginning that that

434

00:14:44,389 --> 00:14:42,399

we are are

435

00:14:46,310 --> 00:14:44,399

dedicated and determined to finishing

436

00:14:48,230 --> 00:14:46,320

strong we wanted the last

437

00:14:50,389 --> 00:14:48,240

flight to be to be the safest flight

438

00:14:51,990 --> 00:14:50,399

that we fly we wanted the performance of

439

00:14:53,590 --> 00:14:52,000

the vehicle to be as good as it's ever

440

00:14:56,310 --> 00:14:53,600

been we wanted the team to be able to

441

00:14:57,750 --> 00:14:56,320

execute at a level that

442

00:15:00,150 --> 00:14:57,760

as high or higher than we've ever been

443

00:15:02,069 --> 00:15:00,160

able to execute and that has been what

444

00:15:03,829 --> 00:15:02,079

we've dedicated ourselves to as a team

445

00:15:06,310 --> 00:15:03,839

and and i think you're seeing that play

446

00:15:08,150 --> 00:15:06,320

out i think you you saw it in in the the

447

00:15:10,150 --> 00:15:08,160

final mission of endeavor and the same

448

00:15:11,189 --> 00:15:10,160

thing for discovery in the last few

449

00:15:13,110 --> 00:15:11,199

months here

450

00:15:14,870 --> 00:15:13,120

and so i'm very pleased that we've

451  
00:15:16,550 --> 00:15:14,880  
gotten to this point we have a long ways

452  
00:15:17,750 --> 00:15:16,560  
to go this is an extremely challenging

453  
00:15:19,750 --> 00:15:17,760  
mission

454  
00:15:22,150 --> 00:15:19,760  
a lot of people

455  
00:15:23,350 --> 00:15:22,160  
mistake this because it's a

456  
00:15:25,189 --> 00:15:23,360  
whether it's because it's a final

457  
00:15:27,350 --> 00:15:25,199  
mission or because it's an mplm and it

458  
00:15:28,870 --> 00:15:27,360  
doesn't have a big payload that we're

459  
00:15:30,230 --> 00:15:28,880  
that we're going to leave on station in

460  
00:15:31,910 --> 00:15:30,240  
terms of

461  
00:15:34,310 --> 00:15:31,920  
like an ams or

462  
00:15:35,990 --> 00:15:34,320  
or an assembly type mission

463  
00:15:37,590 --> 00:15:36,000

it's a very challenging and extremely

464

00:15:38,870 --> 00:15:37,600

important mission to the space station

465

00:15:41,110 --> 00:15:38,880

program and to the international

466

00:15:43,509 --> 00:15:41,120

partners so we have

467

00:15:45,670 --> 00:15:43,519

that entire mission in front of us

468

00:15:47,269 --> 00:15:45,680

and we understand i think the challenges

469

00:15:48,949 --> 00:15:47,279

associated with getting it done with our

470

00:15:51,430 --> 00:15:48,959

four-person crew

471

00:15:53,670 --> 00:15:51,440

and so again i'm very pleased at the

472

00:15:55,350 --> 00:15:53,680

start we've had here

473

00:15:57,110 --> 00:15:55,360

and

474

00:15:58,629 --> 00:15:57,120

atlanta's performing the way atlantis

475

00:16:01,269 --> 00:15:58,639

has to this point

476

00:16:02,230 --> 00:16:01,279

being part of the equation is

477

00:16:03,910 --> 00:16:02,240

is

478

00:16:05,749 --> 00:16:03,920

a combination again of hard work and

479

00:16:06,949 --> 00:16:05,759

good fortune

480

00:16:09,110 --> 00:16:06,959

and

481

00:16:10,870 --> 00:16:09,120

it is what we were determined to do

482

00:16:12,069 --> 00:16:10,880

in terms of of being able to finish

483

00:16:14,069 --> 00:16:12,079

strong so

484

00:16:15,430 --> 00:16:14,079

this is what i expected

485

00:16:18,550 --> 00:16:15,440

and um

486

00:16:20,629 --> 00:16:18,560

and and i i look forward to the to the

487

00:16:25,670 --> 00:16:20,639

the rest of the mission and uh and

488

00:16:30,230 --> 00:16:27,590

anything else thank you no that's it

489

00:16:31,590 --> 00:16:30,240

thanks okay robert perlman collect space

490

00:16:33,030 --> 00:16:31,600

are you on

491

00:16:36,310 --> 00:16:33,040

i am thanks

492

00:16:38,150 --> 00:16:36,320

um leroy i think there was uh some talk

493

00:16:39,030 --> 00:16:38,160

prior to the launch a few weeks prior to

494

00:16:41,430 --> 00:16:39,040

the launch

495

00:16:44,150 --> 00:16:41,440

about um extending the time that the

496

00:16:46,710 --> 00:16:44,160

external tank camera was on to sort of

497

00:16:49,189 --> 00:16:46,720

follow it into re-entry was that done

498

00:16:51,430 --> 00:16:49,199

and did you get that footage and what it

499

00:16:53,590 --> 00:16:51,440

looked like

500

00:16:55,910 --> 00:16:53,600

it was done in fact the another thing

501  
00:16:58,710 --> 00:16:55,920  
the team accomplished in a very short

502  
00:17:00,150 --> 00:16:58,720  
period of time we we kind of

503  
00:17:02,389 --> 00:17:00,160  
we kind of pulled that on him a little

504  
00:17:04,789 --> 00:17:02,399  
late in the game in terms of of making

505  
00:17:08,230 --> 00:17:04,799  
that request and so

506  
00:17:10,630 --> 00:17:08,240  
um but in their usual um their usual

507  
00:17:11,990 --> 00:17:10,640  
fashion they they did an outstanding job

508  
00:17:13,990 --> 00:17:12,000  
in terms of

509  
00:17:16,150 --> 00:17:14,000  
of being able to configure the systems

510  
00:17:17,990 --> 00:17:16,160  
before we flew uh to allow us to do that

511  
00:17:19,590 --> 00:17:18,000  
and what we're talking about is the the

512  
00:17:20,549 --> 00:17:19,600  
feed line camera that we normally have

513  
00:17:21,510 --> 00:17:20,559

video

514

00:17:23,909 --> 00:17:21,520

from

515

00:17:25,189 --> 00:17:23,919

during the uh the uphill ascent into

516

00:17:27,669 --> 00:17:25,199

orbit phase

517

00:17:29,669 --> 00:17:27,679

and then so that we don't transmit over

518

00:17:31,350 --> 00:17:29,679

parts of the world that

519

00:17:33,990 --> 00:17:31,360

don't normally want us to have those

520

00:17:36,950 --> 00:17:34,000

kind of rf signals transmitted we turn

521

00:17:38,470 --> 00:17:36,960

it off and uh and

522

00:17:39,990 --> 00:17:38,480

and in this case we asked if we could

523

00:17:43,669 --> 00:17:40,000

leave it on longer so that we'd be able

524

00:17:44,470 --> 00:17:43,679

to see the re-entry of the external tank

525

00:17:45,750 --> 00:17:44,480

and

526

00:17:47,590 --> 00:17:45,760

the team was able to configure the

527

00:17:50,630 --> 00:17:47,600

systems to be able to do that

528

00:17:52,789 --> 00:17:50,640

we were able to our network team uh jim

529

00:17:54,470 --> 00:17:52,799

bongiter and his team of folks and kathy

530

00:17:56,070 --> 00:17:54,480

sham

531

00:17:57,990 --> 00:17:56,080

really just won't be on the call in

532

00:18:00,310 --> 00:17:58,000

terms of being able to provide some

533

00:18:02,390 --> 00:18:00,320

capability on the ground with a station

534

00:18:03,750 --> 00:18:02,400

at diego garcia that could receive this

535

00:18:06,150 --> 00:18:03,760

information

536

00:18:07,669 --> 00:18:06,160

as it turns out the the results i think

537

00:18:09,270 --> 00:18:07,679

are going to be about what we expected

538

00:18:10,789 --> 00:18:09,280

which is

539

00:18:13,510 --> 00:18:10,799

when the tank gets to this point and

540

00:18:15,830 --> 00:18:13,520

it's in its entry and re-entry

541

00:18:18,070 --> 00:18:15,840

into the atmosphere it's it's tumbling

542

00:18:20,310 --> 00:18:18,080

by this time and so and the lighting is

543

00:18:21,830 --> 00:18:20,320

somewhat questionable which again

544

00:18:23,110 --> 00:18:21,840

would be expected

545

00:18:26,070 --> 00:18:23,120

so

546

00:18:29,750 --> 00:18:26,080

the the information that i have is that

547

00:18:31,750 --> 00:18:29,760

we have captured the data

548

00:18:34,150 --> 00:18:31,760

from diego garcia

549

00:18:35,990 --> 00:18:34,160

it is going to be questionable in terms

550

00:18:37,830 --> 00:18:36,000

of usefulness because of the motion of

551  
00:18:39,590 --> 00:18:37,840  
the tank and because of the lighting but

552  
00:18:41,350 --> 00:18:39,600  
we haven't had any experts been able to

553  
00:18:43,029 --> 00:18:41,360  
look at it yet and we won't have that

554  
00:18:43,990 --> 00:18:43,039  
unfortunately for probably a couple of

555  
00:18:45,510 --> 00:18:44,000  
weeks

556  
00:18:49,190 --> 00:18:45,520  
and so that's not something that we'll

557  
00:18:52,230 --> 00:18:50,870  
it's possible but it's just not likely

558  
00:18:53,590 --> 00:18:52,240  
that we'll see that by the time we

559  
00:18:56,310 --> 00:18:53,600  
finish this mission

560  
00:18:58,230 --> 00:18:56,320  
but it was a best effort to begin with

561  
00:18:59,430 --> 00:18:58,240  
and so we'll see what we see when we get

562  
00:19:01,750 --> 00:18:59,440  
the dvd

563  
00:19:05,669 --> 00:19:01,760

but that's the status of it as it stands

564

00:19:10,630 --> 00:19:07,909

thank you

565

00:19:11,430 --> 00:19:10,640

okay bill harwood cbs news are you on

566

00:19:13,190 --> 00:19:11,440

bill

567

00:19:15,510 --> 00:19:13,200

yeah i'm on but uh leroy i have no

568

00:19:18,230 --> 00:19:15,520

questions thank you very much okay

569

00:19:19,750 --> 00:19:18,240

okay we're back here anybody have any

570

00:19:21,430 --> 00:19:19,760

follow-ups yeah

571

00:19:22,950 --> 00:19:21,440

just a quick follow on the on the et

572

00:19:24,870 --> 00:19:22,960

camera what

573

00:19:26,870 --> 00:19:24,880

there were no airborne assets or any

574

00:19:27,830 --> 00:19:26,880

other assets besides diego garcia that

575

00:19:30,150 --> 00:19:27,840

were

576

00:19:31,830 --> 00:19:30,160

available for this correct okay thank

577

00:19:34,310 --> 00:19:31,840

you

578

00:19:35,830 --> 00:19:34,320

okay uh seeing no more questions just a

579

00:19:37,350 --> 00:19:35,840

couple of quick programming notes as

580

00:19:39,110 --> 00:19:37,360

leroy mentioned the crew heads to bed

581

00:19:40,390 --> 00:19:39,120

about 6 30 and of course we'll do the

582

00:19:42,549 --> 00:19:40,400

flight day

583

00:19:43,909 --> 00:19:42,559

highlights package starting at 8 o'clock

584

00:19:46,549 --> 00:19:43,919

central time

585

00:19:48,789 --> 00:19:46,559

on the hour except for the one time that

586

00:19:51,590 --> 00:19:48,799

we will play the space shuttle program

587

00:19:53,110 --> 00:19:51,600

video the launching our dreams

588

00:19:55,830 --> 00:19:53,120

if you haven't seen it it's about 30

589

00:19:57,669 --> 00:19:55,840

minutes it's quite good atlanta stocks

590

00:19:59,590 --> 00:19:57,679

to the station just after 10 sunday

591

00:20:01,750 --> 00:19:59,600

morning of course you'll see all of that

592

00:20:04,549 --> 00:20:01,760

on nasa tv our next mission status

593

00:20:06,549 --> 00:20:04,559

briefing is after that at 12 30 sunday

594

00:20:08,630 --> 00:20:06,559

and the mmt will meet again at one and

595

00:20:10,710 --> 00:20:08,640

then we'll be back here at three o'clock

596

00:20:12,470 --> 00:20:10,720

again tomorrow afternoon with another

597

00:20:14,310 --> 00:20:12,480

mmt update

598

00:20:17,590 --> 00:20:14,320

and

599

00:20:21,190 --> 00:20:19,110

team is

600

00:20:22,150 --> 00:20:21,200

watching over the rest of the cruise day

601  
00:20:25,110 --> 00:20:22,160  
and

602  
00:20:28,710 --> 00:20:25,120  
the crew wake up time tomorrow is 2 29

603  
00:20:30,549 --> 00:20:28,720  
a.m sunday central 3 29 a.m eastern

604  
00:20:39,110 --> 00:20:30,559  
so we'll head back to mission control

605  
00:20:44,230 --> 00:20:41,750  
i'm tony machadore i'm kenneth edwards

606  
00:20:46,070 --> 00:20:44,240  
i'm todd kwasny i'm amy berzinski i'm

607  
00:20:47,510 --> 00:20:46,080  
steven zinter we're the odin flight