



n Space C

e Center

1  
00:00:05,110 --> 00:00:03,350  
well good day and welcome to our mission

2  
00:00:07,030 --> 00:00:05,120  
status briefing for today from the

3  
00:00:09,350 --> 00:00:07,040  
johnson space center

4  
00:00:11,110 --> 00:00:09,360  
atlantis is on its own and the hours are

5  
00:00:13,350 --> 00:00:11,120  
winding down toward landing and with us

6  
00:00:14,870 --> 00:00:13,360  
to talk about this after his final shift

7  
00:00:16,390 --> 00:00:14,880  
as a space shuttle flight director is

8  
00:00:19,189 --> 00:00:16,400  
the lead for this mission from the space

9  
00:00:20,710 --> 00:00:19,199  
shuttle side crazy alla barujo

10  
00:00:23,269 --> 00:00:20,720  
thank you rob

11  
00:00:26,070 --> 00:00:23,279  
well the crew flew an absolutely perfect

12  
00:00:28,230 --> 00:00:26,080  
uh undocking and fly around today

13  
00:00:30,470 --> 00:00:28,240

undocking occurred on time

14

00:00:32,229 --> 00:00:30,480

the space shuttle atlantis backed out to

15

00:00:34,790 --> 00:00:32,239

about 600 feet

16

00:00:38,310 --> 00:00:34,800

and while they're at 600 feet the iss

17

00:00:41,350 --> 00:00:38,320

performed a 90 degree yaw maneuver or

18

00:00:42,229 --> 00:00:41,360

essentially a a 90 degree right turn to

19

00:00:45,670 --> 00:00:42,239

present

20

00:00:48,389 --> 00:00:45,680

it's off access to uh to the shuttle

21

00:00:50,069 --> 00:00:48,399

then pilot doug hurley initiated a half

22

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

lap fly around flew it absolutely

23

00:00:52,950 --> 00:00:51,120

perfectly

24

00:00:55,510 --> 00:00:52,960

everything was by the numbers

25

00:00:58,709 --> 00:00:55,520

and uh after that half lap fly around uh

26  
00:01:01,029 --> 00:00:58,719  
when the the shuttle was on the the back

27  
00:01:03,990 --> 00:01:01,039  
side of the space station

28  
00:01:06,469 --> 00:01:04,000  
the shuttle crew initiated

29  
00:01:08,789 --> 00:01:06,479  
two separation burns which basically

30  
00:01:12,469 --> 00:01:08,799  
took the shuttle on a trajectory away

31  
00:01:14,390 --> 00:01:12,479  
from and underneath the iss

32  
00:01:16,870 --> 00:01:14,400  
at this point the shuttle crew is now

33  
00:01:18,390 --> 00:01:16,880  
engaged in late inspection activities

34  
00:01:21,590 --> 00:01:18,400  
they've got the orbiter boom sensor

35  
00:01:24,070 --> 00:01:21,600  
system engaged to inspect the tps the

36  
00:01:26,550 --> 00:01:24,080  
thermal protection system for any damage

37  
00:01:28,630 --> 00:01:26,560  
that may have occurred while the

38  
00:01:30,710 --> 00:01:28,640

shuttle was docked to iss

39

00:01:32,550 --> 00:01:30,720

and once they conclude those activities

40

00:01:34,630 --> 00:01:32,560

then the crew will hopefully be getting

41

00:01:36,950 --> 00:01:34,640

to bed on time if not a little early

42

00:01:38,710 --> 00:01:36,960

today if we get lucky and they'll be

43

00:01:41,670 --> 00:01:38,720

preparing for their

44

00:01:43,830 --> 00:01:41,680

entry minus one day activities tomorrow

45

00:01:45,670 --> 00:01:43,840

which includes check out of their flight

46

00:01:46,870 --> 00:01:45,680

control system check out of their com

47

00:01:48,710 --> 00:01:46,880

system

48

00:01:50,469 --> 00:01:48,720

as well as stowing the cabin in

49

00:01:53,350 --> 00:01:50,479

preparation for entry

50

00:01:54,469 --> 00:01:53,360

so a fantastic day everything went very

51  
00:01:56,709 --> 00:01:54,479  
well today

52  
00:01:58,230 --> 00:01:56,719  
and certainly couldn't be happier with

53  
00:01:59,670 --> 00:01:58,240  
the performance of the crew performance

54  
00:02:01,350 --> 00:01:59,680  
of the spacecraft

55  
00:02:02,469 --> 00:02:01,360  
or the performance of the flight control

56  
00:02:03,749 --> 00:02:02,479  
teams

57  
00:02:04,709 --> 00:02:03,759  
just very pleased with the mission

58  
00:02:07,270 --> 00:02:04,719  
overall

59  
00:02:09,830 --> 00:02:07,280  
and so we're looking forward to a good

60  
00:02:11,910 --> 00:02:09,840  
entry and landing on on thursday if

61  
00:02:14,390 --> 00:02:11,920  
weather holds out for us that's all i've

62  
00:02:16,470 --> 00:02:14,400  
got and be happy to answer questions

63  
00:02:18,309 --> 00:02:16,480

okay we've got reporters here in houston

64

00:02:20,830 --> 00:02:18,319

also reporters on the phone bridge and

65

00:02:23,830 --> 00:02:20,840

we can start

66

00:02:26,150 --> 00:02:23,840

mark thanks i'm mark crowe for aviation

67

00:02:28,550 --> 00:02:26,160

week and i just wonder uh as far as the

68

00:02:29,350 --> 00:02:28,560

photo session went and as best you know

69

00:02:34,229 --> 00:02:29,360

did

70

00:02:35,430 --> 00:02:34,239

station program

71

00:02:37,430 --> 00:02:35,440

uh we

72

00:02:41,270 --> 00:02:37,440

haven't gotten any indications to the

73

00:02:42,949 --> 00:02:41,280

contrary typically uh we really uh don't

74

00:02:45,509 --> 00:02:42,959

get a whole lot of feedback from the

75

00:02:47,750 --> 00:02:45,519

crew directly on the photos they shoot

76

00:02:50,390 --> 00:02:47,760

during fly around however i expect those

77

00:02:52,550 --> 00:02:50,400

image cards will be in the

78

00:02:55,990 --> 00:02:52,560

in the laptop computers and and will be

79

00:02:57,350 --> 00:02:56,000

downlinked with with all do alacrity so

80

00:02:59,030 --> 00:02:57,360

we should probably start to see some of

81

00:03:02,149 --> 00:02:59,040

those images

82

00:03:03,509 --> 00:03:02,159

by tonight local time

83

00:03:05,670 --> 00:03:03,519

so

84

00:03:08,790 --> 00:03:05,680

phillips loss with [nasaspaceflight.com](http://nasaspaceflight.com)

85

00:03:10,229 --> 00:03:08,800

um now that your uh last shift is over

86

00:03:12,390 --> 00:03:10,239

as a shuttle flight director and your

87

00:03:14,070 --> 00:03:12,400

flight control team um

88

00:03:17,110 --> 00:03:14,080

were you guys able to savor the moment

89

00:03:18,470 --> 00:03:17,120

today uh this being your last shift

90

00:03:22,149 --> 00:03:18,480

i think we were

91

00:03:24,630 --> 00:03:22,159

in that i think we thoroughly enjoyed uh

92

00:03:26,789 --> 00:03:24,640

helping to guide atlantis crew through

93

00:03:28,390 --> 00:03:26,799

their activities

94

00:03:29,910 --> 00:03:28,400

i didn't particularly make any any

95

00:03:32,470 --> 00:03:29,920

speeches today

96

00:03:34,550 --> 00:03:32,480

we had really just focused on on the

97

00:03:35,589 --> 00:03:34,560

undocking on the fly around making sure

98

00:03:37,830 --> 00:03:35,599

that we

99

00:03:41,430 --> 00:03:37,840

executed those properly we were able to

100

00:03:43,830 --> 00:03:41,440

enjoy tremendous imagery in real time

101  
00:03:46,390 --> 00:03:43,840  
in fact there was a one period of time

102  
00:03:48,070 --> 00:03:46,400  
where we were looking at a view of the

103  
00:03:49,589 --> 00:03:48,080  
international space station as it was

104  
00:03:51,589 --> 00:03:49,599  
doing its maneuver

105  
00:03:53,830 --> 00:03:51,599  
down linked in real time from

106  
00:03:56,070 --> 00:03:53,840  
atlantis's

107  
00:03:58,390 --> 00:03:56,080  
centerline camera on the docking system

108  
00:04:00,309 --> 00:03:58,400  
concurrently at the international space

109  
00:04:02,630 --> 00:04:00,319  
station had a camera pointed at atlantis

110  
00:04:05,190 --> 00:04:02,640  
as it was flying uh over the top and we

111  
00:04:08,229 --> 00:04:05,200  
got that view uh uh down simultaneously

112  
00:04:10,149 --> 00:04:08,239  
so that was uh that that created a nice

113  
00:04:12,309 --> 00:04:10,159

atmosphere and mission control that we

114

00:04:14,789 --> 00:04:12,319

could enjoy and and

115

00:04:17,110 --> 00:04:14,799

use to to savor the moment so i think i

116

00:04:18,469 --> 00:04:17,120

think everyone enjoyed themselves today

117

00:04:20,789 --> 00:04:18,479

i think we were happy with how we

118

00:04:24,230 --> 00:04:20,799

executed and and really that i think is

119

00:04:27,510 --> 00:04:24,240

the most important thing to this team

120

00:04:31,830 --> 00:04:30,070

robert perlman with collectspace.com uh

121

00:04:33,350 --> 00:04:31,840

before they left the station yesterday

122

00:04:36,150 --> 00:04:33,360

the the crew during their farewell

123

00:04:37,510 --> 00:04:36,160

ceremony uh showed a shuttle model as

124

00:04:38,950 --> 00:04:37,520

sort of their monument to the space

125

00:04:40,950 --> 00:04:38,960

shuttle program and mentioned that your

126

00:04:42,550 --> 00:04:40,960

signature was on there as one of the

127

00:04:44,390 --> 00:04:42,560

modern titans of the space shuttle

128

00:04:46,870 --> 00:04:44,400

program can you tell me what that meant

129

00:04:49,430 --> 00:04:46,880

to you personally to be part of that

130

00:04:51,270 --> 00:04:49,440

that tribute and what you see that

131

00:04:53,350 --> 00:04:51,280

shuttle model representing aboard the

132

00:04:55,350 --> 00:04:53,360

space station

133

00:04:58,230 --> 00:04:55,360

well i

134

00:05:01,270 --> 00:04:58,240

i barely have words to describe

135

00:05:03,830 --> 00:05:01,280

how humbling how humbled i feel

136

00:05:05,270 --> 00:05:03,840

to have have been allowed to sign the

137

00:05:08,150 --> 00:05:05,280

model

138

00:05:10,230 --> 00:05:08,160

station

139

00:05:12,629 --> 00:05:10,240

for the foreseeable future as a as a

140

00:05:14,469 --> 00:05:12,639

reminder of the contributions of the

141

00:05:16,550 --> 00:05:14,479

shuttle program and and the role that

142

00:05:18,710 --> 00:05:16,560

the shuttle has played in in building

143

00:05:20,390 --> 00:05:18,720

the international space station

144

00:05:22,710 --> 00:05:20,400

i was just talking with the chief of the

145

00:05:25,350 --> 00:05:22,720

flight director office this morning

146

00:05:26,629 --> 00:05:25,360

when he asked me did i ever imagine that

147

00:05:28,070 --> 00:05:26,639

i would be

148

00:05:30,310 --> 00:05:28,080

the lead flight director for the last

149

00:05:33,909 --> 00:05:30,320

shuttle flight and and and of course the

150

00:05:35,990 --> 00:05:33,919

answer was was no as as most folks know

151

00:05:37,830 --> 00:05:36,000

i i started my career as an iss flight

152

00:05:40,230 --> 00:05:37,840

controller

153

00:05:42,150 --> 00:05:40,240

first supporting iss as a flight

154

00:05:44,150 --> 00:05:42,160

director and i

155

00:05:45,830 --> 00:05:44,160

initially had had not really imagined

156

00:05:47,270 --> 00:05:45,840

that that i would have the the

157

00:05:50,230 --> 00:05:47,280

opportunity

158

00:05:52,070 --> 00:05:50,240

to to train shuttle and to to learn and

159

00:05:53,350 --> 00:05:52,080

manage operations on that spacecraft as

160

00:05:55,749 --> 00:05:53,360

well so

161

00:05:58,550 --> 00:05:55,759

uh it's really i consider it quite an

162

00:06:01,430 --> 00:05:58,560

honor uh i i certainly uh

163

00:06:03,990 --> 00:06:01,440

certainly appreciate and recognize the

164

00:06:07,350 --> 00:06:04,000

contributions of those team members

165

00:06:09,189 --> 00:06:07,360

who have uh who have uh worked for me

166

00:06:10,390 --> 00:06:09,199

and with me over the years because

167

00:06:11,990 --> 00:06:10,400

they're the ones that really make me

168

00:06:14,070 --> 00:06:12,000

make me look smart

169

00:06:16,550 --> 00:06:14,080

i i like to joke frequently and it's not

170

00:06:18,550 --> 00:06:16,560

that much of a joke that my team has

171

00:06:21,270 --> 00:06:18,560

been so good that i rarely have to to do

172

00:06:22,390 --> 00:06:21,280

much beyond just nod and point

173

00:06:24,150 --> 00:06:22,400

so

174

00:06:26,230 --> 00:06:24,160

it's uh

175

00:06:28,390 --> 00:06:26,240

it's it's really it's really an honor

176  
00:06:32,070 --> 00:06:28,400  
quite quite beyond too many meaningful

177  
00:06:35,110 --> 00:06:32,710  
it

178  
00:06:36,230 --> 00:06:35,120  
sort of leaves you uh sort of leaves you

179  
00:06:38,870 --> 00:06:36,240  
uh

180  
00:06:41,029 --> 00:06:38,880  
sad

181  
00:06:42,950 --> 00:06:41,039  
to see the the program come to an end

182  
00:06:46,390 --> 00:06:42,960  
but at the same time

183  
00:06:47,830 --> 00:06:46,400  
transitions are important and so uh

184  
00:06:50,950 --> 00:06:47,840  
i'm just honored to have been part of

185  
00:06:55,909 --> 00:06:50,960  
this particular transition

186  
00:06:59,830 --> 00:06:58,070  
uh genus and sarah abc news i think

187  
00:07:00,950 --> 00:06:59,840  
there's a good viewing opportunity

188  
00:07:02,790 --> 00:07:00,960

tomorrow morning you're going to head

189

00:07:04,629 --> 00:07:02,800

outside and look at atlantis and the

190

00:07:08,390 --> 00:07:04,639

station fly overhead

191

00:07:10,390 --> 00:07:08,400

you know i am very tempted to do so but

192

00:07:13,110 --> 00:07:10,400

i think i i owe

193

00:07:15,029 --> 00:07:13,120

i owe my wife and my son to to actually

194

00:07:17,909 --> 00:07:15,039

be asleep at that time

195

00:07:19,350 --> 00:07:17,919

and so i now that now that

196

00:07:20,550 --> 00:07:19,360

my role in this shuttle flight is

197

00:07:22,870 --> 00:07:20,560

concluded

198

00:07:25,990 --> 00:07:22,880

i do have several debts to start to pay

199

00:07:28,870 --> 00:07:27,270

we have a couple of reporters on the

200

00:07:30,309 --> 00:07:28,880

phone bridge that we can go to before we

201  
00:07:36,230 --> 00:07:30,319  
come back here for follow-ups bill

202  
00:07:36,240 --> 00:07:40,230  
bill can you hear us

203  
00:07:44,790 --> 00:07:41,909  
all right let's move along marcia dunn

204  
00:07:46,710 --> 00:07:44,800  
you there yes hi can you hear me um hey

205  
00:07:48,230 --> 00:07:46,720  
hi it's me can you hear me rob yeah we

206  
00:07:50,790 --> 00:07:48,240  
can hear you bill

207  
00:07:52,790 --> 00:07:50,800  
uh loud and clear um quantity just just

208  
00:07:54,150 --> 00:07:52,800  
a quick one for me it's just kind of a

209  
00:07:55,670 --> 00:07:54,160  
thinking about mission control on

210  
00:07:56,790 --> 00:07:55,680  
landing day i know that folks are all

211  
00:07:58,550 --> 00:07:56,800  
going to be in there it's going to be

212  
00:08:00,230 --> 00:07:58,560  
quite a moment for all the folks in

213  
00:08:02,150 --> 00:08:00,240

mission control just wondering if you

214

00:08:04,309 --> 00:08:02,160

can give me some sense of

215

00:08:06,469 --> 00:08:04,319

i don't know what d me what to even ask

216

00:08:08,950 --> 00:08:06,479

here but but the emotions involved i

217

00:08:10,950 --> 00:08:08,960

mean where you guys are after all this

218

00:08:13,670 --> 00:08:10,960

and to be there on landing day

219

00:08:14,550 --> 00:08:13,680

any thoughts you might have thanks

220

00:08:16,790 --> 00:08:14,560

well

221

00:08:19,350 --> 00:08:16,800

indications that that i have

222

00:08:22,230 --> 00:08:19,360

now just from uh

223

00:08:24,790 --> 00:08:22,240

anecdotal reports or or my personal

224

00:08:27,270 --> 00:08:24,800

observations i think the level of

225

00:08:28,390 --> 00:08:27,280

emotion that will be felt in mission

226

00:08:30,790 --> 00:08:28,400

control

227

00:08:32,949 --> 00:08:30,800

will be building geometrically between

228

00:08:35,029 --> 00:08:32,959

now and and landing day

229

00:08:36,389 --> 00:08:35,039

i know several of the managers

230

00:08:38,550 --> 00:08:36,399

you know program managers the

231

00:08:40,070 --> 00:08:38,560

institutional managers many of whom are

232

00:08:42,630 --> 00:08:40,080

ex-mission controllers themselves our

233

00:08:45,509 --> 00:08:42,640

ex-flight directors i know they are are

234

00:08:47,910 --> 00:08:45,519

planning to be in the control center uh

235

00:08:49,509 --> 00:08:47,920

some cases uh to be on the floor of the

236

00:08:53,670 --> 00:08:49,519

uh the front room

237

00:08:56,310 --> 00:08:53,680

uh during landing so uh i think the the

238

00:08:59,350 --> 00:08:56,320

the sense of wanting to be a part of

239

00:09:01,030 --> 00:08:59,360

that moment uh is very strong and is

240

00:09:03,829 --> 00:09:01,040

going to be building

241

00:09:05,829 --> 00:09:03,839

i know i myself will will likely be in

242

00:09:07,509 --> 00:09:05,839

the the viewing room of the the white

243

00:09:09,350 --> 00:09:07,519

flight control room the white figure

244

00:09:11,750 --> 00:09:09,360

it's the shuttle flight control room

245

00:09:13,110 --> 00:09:11,760

i'll be there with uh with my wife and

246

00:09:15,110 --> 00:09:13,120

and some friends

247

00:09:16,470 --> 00:09:15,120

uh and possibly our

248

00:09:18,230 --> 00:09:16,480

our son

249

00:09:21,190 --> 00:09:18,240

and

250

00:09:22,550 --> 00:09:21,200

i know that that i will feel a sense of

251  
00:09:23,350 --> 00:09:22,560  
completion

252  
00:09:31,509 --> 00:09:23,360  
a

253  
00:09:33,670 --> 00:09:31,519  
reflective reverence of

254  
00:09:35,030 --> 00:09:33,680  
of of of what we've been able to

255  
00:09:37,750 --> 00:09:35,040  
accomplish

256  
00:09:38,949 --> 00:09:37,760  
over these last several years so i i

257  
00:09:40,550 --> 00:09:38,959  
think

258  
00:09:42,630 --> 00:09:40,560  
many people who will be there will be

259  
00:09:44,870 --> 00:09:42,640  
feeling the same thing i think they'll

260  
00:09:48,070 --> 00:09:44,880  
be some understandable

261  
00:09:50,550 --> 00:09:48,080  
mix of of apprehension sadness and

262  
00:09:52,310 --> 00:09:50,560  
excitement at what the future might hold

263  
00:09:53,590 --> 00:09:52,320

all of those emotions wrapped up into

264

00:10:01,350 --> 00:09:53,600

one

265

00:10:07,350 --> 00:10:03,990

okay marcia you there yeah ty can you

266

00:10:08,949 --> 00:10:07,360

hear me yeah i sure can yes um quatzzi it

267

00:10:10,550 --> 00:10:08,959

it seemed uh

268

00:10:13,350 --> 00:10:10,560

pretty moving to listen to steve

269

00:10:15,590 --> 00:10:13,360

robinson sign off to the um

270

00:10:18,630 --> 00:10:15,600

sign off for the entire team and i'm

271

00:10:21,030 --> 00:10:18,640

wondering if that seemed to be the the

272

00:10:24,069 --> 00:10:21,040

peak of the emotion in the room

273

00:10:26,389 --> 00:10:24,079

during your shift and also did you as

274

00:10:27,990 --> 00:10:26,399

chris ferguson suggested turn around and

275

00:10:29,910 --> 00:10:28,000

make a memory as you walked out of that

276

00:10:31,350 --> 00:10:29,920

room

277

00:10:33,750 --> 00:10:31,360

well

278

00:10:36,389 --> 00:10:33,760

one of the reasons that that i didn't i

279

00:10:38,630 --> 00:10:36,399

didn't attempt to to make a speech today

280

00:10:41,110 --> 00:10:38,640

uh to my team as we left

281

00:10:43,590 --> 00:10:41,120

is uh because i think the the words of

282

00:10:46,150 --> 00:10:43,600

steve robinson uh were

283

00:10:47,670 --> 00:10:46,160

were powerful uh they were simple and

284

00:10:49,430 --> 00:10:47,680

brief

285

00:10:52,310 --> 00:10:49,440

i think he he very accurately

286

00:10:54,230 --> 00:10:52,320

represented how my team felt

287

00:10:56,310 --> 00:10:54,240

as we were marching out of the control

288

00:10:58,389 --> 00:10:56,320

center i saw

289

00:11:00,069 --> 00:10:58,399

a group of people on my team who

290

00:11:01,110 --> 00:11:00,079

believed in the heart of hearts that

291

00:11:04,550 --> 00:11:01,120

they have

292

00:11:06,550 --> 00:11:04,560

mission

293

00:11:08,470 --> 00:11:06,560

and that they've done their jobs to the

294

00:11:09,670 --> 00:11:08,480

best of their ability and and i believe

295

00:11:12,230 --> 00:11:09,680

that they have

296

00:11:15,030 --> 00:11:12,240

i think they have earned that

297

00:11:16,069 --> 00:11:15,040

sensation earned that emotion uh as for

298

00:11:19,590 --> 00:11:16,079

me

299

00:11:21,590 --> 00:11:19,600

i did i did definitely turn around and

300

00:11:24,310 --> 00:11:21,600

and make a memory uh turned around a

301  
00:11:26,949 --> 00:11:24,320  
couple of times i've spent many many

302  
00:11:29,110 --> 00:11:26,959  
many hours and many nights many days in

303  
00:11:31,190 --> 00:11:29,120  
the control center not just as a shuttle

304  
00:11:32,630 --> 00:11:31,200  
flight director or

305  
00:11:33,750 --> 00:11:32,640  
someone supporting the shuttle program

306  
00:11:36,069 --> 00:11:33,760  
but

307  
00:11:37,269 --> 00:11:36,079  
as part of the iss program the control

308  
00:11:40,230 --> 00:11:37,279  
center has

309  
00:11:41,110 --> 00:11:40,240  
has uh has been home for for a long time

310  
00:11:43,430 --> 00:11:41,120  
so

311  
00:11:47,430 --> 00:11:43,440  
it was uh it was definitely a powerful

312  
00:11:50,389 --> 00:11:47,440  
moment as as i i walked out today

313  
00:11:52,230 --> 00:11:50,399

but but at the same time i i i've

314

00:11:53,910 --> 00:11:52,240

learned to make myself

315

00:11:56,150 --> 00:11:53,920

comfortable with

316

00:11:58,629 --> 00:11:56,160

my various discomforts

317

00:12:00,470 --> 00:11:58,639

at ending the program

318

00:12:02,710 --> 00:12:00,480

uncertainty that

319

00:12:05,110 --> 00:12:02,720

as to what the future might hold i try

320

00:12:07,430 --> 00:12:05,120

to look at that as an adventure so

321

00:12:10,949 --> 00:12:07,440

rather than focusing too much

322

00:12:13,910 --> 00:12:10,959

on the memories i personally uh am am

323

00:12:15,990 --> 00:12:13,920

focusing on my excitement at what the

324

00:12:18,949 --> 00:12:16,000

future might hold

325

00:12:24,310 --> 00:12:21,509

okay any follow-ups here

326

00:12:26,389 --> 00:12:24,320

all right seeing none oh robert one just

327

00:12:28,550 --> 00:12:26,399

snuck it in there

328

00:12:31,269 --> 00:12:28,560

rob crowman with collectspace.com again

329

00:12:33,269 --> 00:12:31,279

um mike leinbach commented after the

330

00:12:35,509 --> 00:12:33,279

launch that that would be the last time

331

00:12:37,910 --> 00:12:35,519

that his team would be together in one

332

00:12:40,230 --> 00:12:37,920

place is that is that true for your team

333

00:12:42,389 --> 00:12:40,240

as well or do you have plans to have a

334

00:12:45,269 --> 00:12:42,399

follow-up meeting um either with the

335

00:12:46,790 --> 00:12:45,279

crew or or after this mission lands

336

00:12:49,910 --> 00:12:46,800

i think i think it's safe to say our

337

00:12:52,870 --> 00:12:49,920

shift today will will most likely be uh

338

00:12:54,470 --> 00:12:52,880

the second to last time that

339

00:12:57,030 --> 00:12:54,480

that my whole team is together in one

340

00:12:59,350 --> 00:12:57,040

place we do have a time-honored

341

00:13:00,230 --> 00:12:59,360

tradition of of hanging the plaque as

342

00:13:03,269 --> 00:13:00,240

you know

343

00:13:05,829 --> 00:13:03,279

every mission we have a plaque that is

344

00:13:08,790 --> 00:13:05,839

made in the image of of the crew patch

345

00:13:10,949 --> 00:13:08,800

for the flight and it is awarded by the

346

00:13:13,350 --> 00:13:10,959

lead flight director to the uh

347

00:13:15,829 --> 00:13:13,360

controller or the disciplines that uh

348

00:13:17,750 --> 00:13:15,839

that contributed most uh significantly

349

00:13:19,030 --> 00:13:17,760

to uh to mission success and our

350

00:13:21,269 --> 00:13:19,040

evaluation

351  
00:13:22,389 --> 00:13:21,279  
and so that's uh that's a ceremony that

352  
00:13:24,310 --> 00:13:22,399  
that that

353  
00:13:26,710 --> 00:13:24,320  
will occur next week that almost

354  
00:13:28,069 --> 00:13:26,720  
everybody uh comes to all of the the

355  
00:13:30,069 --> 00:13:28,079  
controllers not only the ones who

356  
00:13:32,150 --> 00:13:30,079  
supported the mission but all the ones

357  
00:13:33,110 --> 00:13:32,160  
uh who were back in the office rooting

358  
00:13:34,710 --> 00:13:33,120  
for them

359  
00:13:36,870 --> 00:13:34,720  
and uh and thinking good thoughts and

360  
00:13:39,110 --> 00:13:36,880  
helping to make the mission a success so

361  
00:13:40,710 --> 00:13:39,120  
we'll see everyone again uh in the uh

362  
00:13:43,030 --> 00:13:40,720  
the shuttle flight control room for the

363  
00:13:44,470 --> 00:13:43,040

plaque hanging ceremony uh next week and

364

00:13:46,829 --> 00:13:44,480

that'll probably be the last time that

365

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

we're all together as as one

366

00:13:51,509 --> 00:13:48,399

group

367

00:13:53,829 --> 00:13:51,519

mark uh thanks mark caro for aviation

368

00:13:56,710 --> 00:13:53,839

week again a couple of questions could

369

00:13:58,470 --> 00:13:56,720

you just go with the gnc

370

00:13:59,750 --> 00:13:58,480

assignments for

371

00:14:02,710 --> 00:13:59,760

the rest of the mission and whether

372

00:14:05,269 --> 00:14:02,720

there's been any change today and

373

00:14:07,430 --> 00:14:05,279

could you also touch on the cryo margins

374

00:14:08,470 --> 00:14:07,440

at this point okay and when you say gnc

375

00:14:11,110 --> 00:14:08,480

assignments i assume you're talking

376

00:14:13,990 --> 00:14:11,120

about computers yes sir okay absolutely

377

00:14:15,990 --> 00:14:14,000

uh when we when we undocked and and

378

00:14:17,430 --> 00:14:16,000

conducted the fly around we were in our

379

00:14:20,470 --> 00:14:17,440

standard

380

00:14:22,389 --> 00:14:20,480

triple gnc computer configuration gpc's

381

00:14:25,269 --> 00:14:22,399

one two and three

382

00:14:27,189 --> 00:14:25,279

were in the redundant set uh computing

383

00:14:29,750 --> 00:14:27,199

gnc software

384

00:14:31,910 --> 00:14:29,760

gpc four was our systems management

385

00:14:33,670 --> 00:14:31,920

machine in gpc 5 which contains our

386

00:14:35,829 --> 00:14:33,680

backup flight software

387

00:14:37,110 --> 00:14:35,839

that was still in standby mode as it has

388

00:14:38,949 --> 00:14:37,120

been since

389

00:14:41,829 --> 00:14:38,959

we arrived on orbit

390

00:14:45,110 --> 00:14:41,839

for the remainder of the the mission

391

00:14:49,030 --> 00:14:45,120

gpc one will will be our gnc computer

392

00:14:51,269 --> 00:14:49,040

gpcs 2 and 3 will remain asleep uh gpc4

393

00:14:54,069 --> 00:14:51,279

of course will continue to run the

394

00:14:56,150 --> 00:14:54,079

systems management software until

395

00:14:57,990 --> 00:14:56,160

entry day when we bring up all of the

396

00:15:00,230 --> 00:14:58,000

computers in and

397

00:15:03,030 --> 00:15:00,240

have gpcs one through five

398

00:15:07,030 --> 00:15:03,040

all supporting flight critical buses in

399

00:15:10,550 --> 00:15:08,310

and there was another question you asked

400

00:15:12,790 --> 00:15:10,560

me i think about cryo margins

401  
00:15:14,550 --> 00:15:12,800  
as of today i think we were sitting on

402  
00:15:18,949 --> 00:15:14,560  
right around 14 hours

403  
00:15:22,069 --> 00:15:20,230  
okay

404  
00:15:23,990 --> 00:15:22,079  
any other questions

405  
00:15:25,590 --> 00:15:24,000  
all right i guess not we'll close with a

406  
00:15:27,509 --> 00:15:25,600  
couple of programming notes one more

407  
00:15:29,670 --> 00:15:27,519  
briefing on tap today that will be at 12

408  
00:15:31,350 --> 00:15:29,680  
noon central time 1 pm

409  
00:15:33,590 --> 00:15:31,360  
eastern time following the mission

410  
00:15:35,350 --> 00:15:33,600  
management team meeting the chair of the

411  
00:15:37,110 --> 00:15:35,360  
mission management team leroy kane the

412  
00:15:37,910 --> 00:15:37,120  
deputy shuttle program manager will be

413  
00:15:39,749 --> 00:15:37,920

here

414

00:15:42,550 --> 00:15:39,759

to discuss those discussions and he'll

415

00:15:44,470 --> 00:15:42,560

be joined by mike sufferdini the iss

416

00:15:46,310 --> 00:15:44,480

program manager to talk about the space

417

00:15:48,629 --> 00:15:46,320

station in the wake of this final

418

00:15:51,670 --> 00:15:48,639

shuttle mission to the complex

419

00:15:54,350 --> 00:15:51,680

atlantis crew sleep begins at 12 59 pm

420

00:15:57,110 --> 00:15:54,360

central time one minute later the

421

00:15:59,030 --> 00:15:57,120

sts-135 ascent imagery highlights

422

00:16:01,269 --> 00:15:59,040

compiled by the space shuttle program

423

00:16:02,949 --> 00:16:01,279

will be aired on nasa tv and if you

424

00:16:04,870 --> 00:16:02,959

haven't seen those in the past you don't

425

00:16:06,310 --> 00:16:04,880

want to miss these there won't be a dry

426  
00:16:07,990 --> 00:16:06,320  
eye in the house i can almost promise

427  
00:16:09,110 --> 00:16:08,000  
you that so you'll want to watch that

428  
00:16:10,710 --> 00:16:09,120  
they'll be replaced throughout the

429  
00:16:12,550 --> 00:16:10,720  
course of the day with that

430  
00:16:14,550 --> 00:16:12,560  
our flight day highlights air for the

431  
00:16:16,629 --> 00:16:14,560  
first time at 2 pm central time they'll

432  
00:16:18,629 --> 00:16:16,639  
be replayed in the absence of other

433  
00:16:20,790 --> 00:16:18,639  
programming on the top of the hour every

434  
00:16:22,470 --> 00:16:20,800  
hour through the crew sleep period

435  
00:16:26,069 --> 00:16:22,480  
atlantis crew will wake up to begin

436  
00:16:27,990 --> 00:16:26,079  
flight day 13 at 8 59 pm central time

437  
00:16:30,150 --> 00:16:28,000  
tonight and when they wake up they'll be

438  
00:16:32,629 --> 00:16:30,160

under the guidance of the entry team led

439

00:16:34,389 --> 00:16:32,639

by entry flight director tony cicacci

440

00:16:36,550 --> 00:16:34,399

who will be here at this time tomorrow

441

00:16:37,509 --> 00:16:36,560

morning to discuss atlanta's final

442

00:16:39,350 --> 00:16:37,519

landing

443

00:16:40,870 --> 00:16:39,360

you can follow all of the activities of

444

00:16:45,749 --> 00:16:40,880

atlantis and the international space