



Space Center

er

1  
00:00:07,510 --> 00:00:05,110  
well good morning and welcome to our

2  
00:00:09,910 --> 00:00:07,520  
final mission status briefing for the

3  
00:00:12,390 --> 00:00:09,920  
space shuttle program with us today to

4  
00:00:14,390 --> 00:00:12,400  
discuss everything that has transpired

5  
00:00:16,230 --> 00:00:14,400  
during the overnight hours on the eve of

6  
00:00:18,790 --> 00:00:16,240  
atlantis landing is the entry flight

7  
00:00:20,470 --> 00:00:18,800  
director tony tsukacci tony

8  
00:00:22,710 --> 00:00:20,480  
thanks rob that's a lot of pressure of

9  
00:00:24,790 --> 00:00:22,720  
the last there but uh good morning

10  
00:00:27,109 --> 00:00:24,800  
everyone uh thanks for uh showing up

11  
00:00:30,070 --> 00:00:27,119  
here let's see uh as it's been the

12  
00:00:32,790 --> 00:00:30,080  
entire mission uh we had a very busy and

13  
00:00:35,110 --> 00:00:32,800

successful flight day 13

14

00:00:37,110 --> 00:00:35,120

morning onboard atlantis the crew

15

00:00:39,590 --> 00:00:37,120

readied both themselves and the

16

00:00:41,350 --> 00:00:39,600

spacecraft for the return home

17

00:00:43,990 --> 00:00:41,360

see the crew woke up

18

00:00:45,830 --> 00:00:44,000

8 30 last night tuesday night and hit

19

00:00:48,150 --> 00:00:45,840

the ground running as typical as an

20

00:00:50,470 --> 00:00:48,160

intermission minus one day

21

00:00:53,590 --> 00:00:50,480

the commander pilot

22

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

first completed the pilot ops the uh

23

00:00:58,389 --> 00:00:55,920

application laptop application that they

24

00:00:59,990 --> 00:00:58,399

can practice landings on as soon as that

25

00:01:01,349 --> 00:01:00,000

was completed

26

00:01:04,229 --> 00:01:01,359

went into the

27

00:01:06,070 --> 00:01:04,239

flight control systems checkout and

28

00:01:09,109 --> 00:01:06,080

all the systems checked out very well

29

00:01:11,350 --> 00:01:09,119

ready for entry tomorrow we also did a

30

00:01:14,550 --> 00:01:11,360

reaction control

31

00:01:16,630 --> 00:01:14,560

system jet checkout and all 38 jets

32

00:01:18,469 --> 00:01:16,640

primary jets that we checked out

33

00:01:19,510 --> 00:01:18,479

operated nominally

34

00:01:22,070 --> 00:01:19,520

see we

35

00:01:24,870 --> 00:01:22,080

also during the day we did a I minus one

36

00:01:28,230 --> 00:01:24,880

comm check using myla

37

00:01:29,910 --> 00:01:28,240

down at ksc and that all went very well

38

00:01:31,510 --> 00:01:29,920

see of course throughout the day on the

39

00:01:33,830 --> 00:01:31,520

intermission minus one activities the

40

00:01:35,109 --> 00:01:33,840

crew performs a cabin stow and just

41

00:01:37,109 --> 00:01:35,119

continues to get the

42

00:01:39,910 --> 00:01:37,119

vehicle ready uh

43

00:01:42,469 --> 00:01:39,920

for a landing let's see uh additional

44

00:01:45,190 --> 00:01:42,479

activity we did today uh probably saw

45

00:01:47,350 --> 00:01:45,200

the picosat deploy call it the jack in

46

00:01:48,630 --> 00:01:47,360

the box but basically it's a little

47

00:01:50,149 --> 00:01:48,640

satellite

48

00:01:52,870 --> 00:01:50,159

um that has its own maneuvering

49

00:01:55,190 --> 00:01:52,880

capability and it'll uh perform some

50

00:01:58,870 --> 00:01:55,200

miniature tracking vehicle experiment

51  
00:02:00,950 --> 00:01:58,880  
that all went really well and also uh on

52  
00:02:03,270 --> 00:02:00,960  
the satellite they have a little digital

53  
00:02:05,030 --> 00:02:03,280  
camera that uh

54  
00:02:06,709 --> 00:02:05,040  
they were going to take pictures of the

55  
00:02:08,469 --> 00:02:06,719  
orbiter as they were deployed so

56  
00:02:10,070 --> 00:02:08,479  
hopefully once they

57  
00:02:11,750 --> 00:02:10,080  
contact the ground station they can get

58  
00:02:13,110 --> 00:02:11,760  
those down list and we can see what they

59  
00:02:14,470 --> 00:02:13,120  
look like

60  
00:02:15,830 --> 00:02:14,480  
as far as

61  
00:02:17,990 --> 00:02:15,840  
the activities that the crew is going to

62  
00:02:21,030 --> 00:02:18,000  
complete later on today they have l

63  
00:02:24,550 --> 00:02:21,040

minus com checkout at dryden down at

64

00:02:26,630 --> 00:02:24,560

edwards make sure all those uh

65

00:02:28,869 --> 00:02:26,640

lines are up and ready to support if we

66

00:02:30,710 --> 00:02:28,879

ever need them and also the ku and

67

00:02:35,589 --> 00:02:30,720

tennistow

68

00:02:37,910 --> 00:02:35,599

see the crew goes to bed about 12 30 pm

69

00:02:38,949 --> 00:02:37,920

this afternoon and then they'll wake up

70

00:02:42,070 --> 00:02:38,959

later on

71

00:02:45,190 --> 00:02:42,080

8 30 for their entry day

72

00:02:46,390 --> 00:02:45,200

see uh as far as entry day activities uh

73

00:02:47,670 --> 00:02:46,400

you guys probably already got these

74

00:02:50,150 --> 00:02:47,680

times from kyle but i'll go ahead and

75

00:02:52,470 --> 00:02:50,160

repeat them again uh the orbit prep will

76

00:02:53,910 --> 00:02:52,480

begin about 11 50

77

00:02:55,430 --> 00:02:53,920

tonight

78

00:02:56,309 --> 00:02:55,440

palo bay door closing is going to be

79

00:02:59,509 --> 00:02:56,319

about

80

00:03:01,270 --> 00:02:59,519

1 10 when or thursday morning

81

00:03:03,190 --> 00:03:01,280

let's see as far as the

82

00:03:05,750 --> 00:03:03,200

first opportunity we're shooting for is

83

00:03:09,430 --> 00:03:05,760

a ksc orbit 200

84

00:03:13,750 --> 00:03:09,440

and that tig is going to be around 3 49

85

00:03:14,949 --> 00:03:13,760

central time with a landing at 4 57 a.m

86

00:03:18,470 --> 00:03:14,959

central time

87

00:03:19,830 --> 00:03:18,480

5 57 of course at ksc the second

88

00:03:23,030 --> 00:03:19,840

opportunity

89

00:03:27,509 --> 00:03:23,040

is ksc orbit 201

90

00:03:31,350 --> 00:03:27,519

and uh that tig is uh 5 25 a.m central

91

00:03:33,509 --> 00:03:31,360

with a landing at 633 central 733

92

00:03:35,030 --> 00:03:33,519

at ksc

93

00:03:36,710 --> 00:03:35,040

see uh let's see we already showed the

94

00:03:37,830 --> 00:03:36,720

ground tracks that was great so let's

95

00:03:39,589 --> 00:03:37,840

talk about

96

00:03:41,750 --> 00:03:39,599

consumables and

97

00:03:44,149 --> 00:03:41,760

the strategy well i'm sure all you guys

98

00:03:46,390 --> 00:03:44,159

been following pretty closely but

99

00:03:47,750 --> 00:03:46,400

the weather is looking very promising uh

100

00:03:49,110 --> 00:03:47,760

tomorrow

101  
00:03:51,830 --> 00:03:49,120  
uh morning

102  
00:03:53,589 --> 00:03:51,840  
the latest uh forecast we received

103  
00:03:55,910 --> 00:03:53,599  
you know of course everybody was talking

104  
00:03:57,990 --> 00:03:55,920  
about tropical storm brett a couple days

105  
00:03:59,990 --> 00:03:58,000  
ago but that's moved northeast out in

106  
00:04:01,030 --> 00:04:00,000  
the atlantic it's not going to pose any

107  
00:04:04,630 --> 00:04:01,040  
problem

108  
00:04:07,030 --> 00:04:04,640  
for the uh ksc landing weather

109  
00:04:08,550 --> 00:04:07,040  
see tomorrow when we come on console

110  
00:04:10,630 --> 00:04:08,560  
there may be some showers in the

111  
00:04:12,869 --> 00:04:10,640  
vicinity of ksc but the weather guy said

112  
00:04:15,589 --> 00:04:12,879  
those will clear out pretty quickly

113  
00:04:17,189 --> 00:04:15,599

and anticipated drying out and having

114

00:04:20,469 --> 00:04:17,199

good weather that morning

115

00:04:24,390 --> 00:04:20,479

let's see right now the forecast is a

116

00:04:26,870 --> 00:04:24,400

few at 5 000 scattered at 25 000

117

00:04:29,189 --> 00:04:26,880

very good visibility and winds very low

118

00:04:31,189 --> 00:04:29,199

winds at coming out of the 240 direction

119

00:04:32,870 --> 00:04:31,199

four peak to six

120

00:04:34,550 --> 00:04:32,880

and uh just breaking that down that's

121

00:04:35,510 --> 00:04:34,560

across the six and a head and tail of

122

00:04:37,990 --> 00:04:35,520

one

123

00:04:40,230 --> 00:04:38,000

uh let's see uh end of mission mine or

124

00:04:41,510 --> 00:04:40,240

intermission plus one same forecast for

125

00:04:44,070 --> 00:04:41,520

ksc

126

00:04:45,909 --> 00:04:44,080

but so we have a really really good shot

127

00:04:48,390 --> 00:04:45,919

to come home tomorrow morning of course

128

00:04:50,390 --> 00:04:48,400

i say that but you've heard me say this

129

00:04:52,390 --> 00:04:50,400

no matter what the forecast that ksc is

130

00:04:54,629 --> 00:04:52,400

it's always 50 50 so when we come in on

131

00:04:55,909 --> 00:04:54,639

console tomorrow we'll go ahead and see

132

00:04:57,510 --> 00:04:55,919

what the weather guys have for us and

133

00:05:00,469 --> 00:04:57,520

work it accordingly

134

00:05:02,310 --> 00:05:00,479

as far as uh orbiter consumable strategy

135

00:05:04,230 --> 00:05:02,320

we do have uh

136

00:05:06,550 --> 00:05:04,240

consumables to support out to enemission

137

00:05:09,189 --> 00:05:06,560

plus two which is saturday

138

00:05:11,029 --> 00:05:09,199

based on all that right now our entry

139

00:05:13,110 --> 00:05:11,039

strategy is for tomorrow we're just

140

00:05:14,469 --> 00:05:13,120

going to try cassie only

141

00:05:15,590 --> 00:05:14,479

just because the weather's looking very

142

00:05:16,950 --> 00:05:15,600

well there

143

00:05:19,270 --> 00:05:16,960

and for some reason we can't make it

144

00:05:21,270 --> 00:05:19,280

home tomorrow friday will be a pickum

145

00:05:23,749 --> 00:05:21,280

day basically that is we'll just take a

146

00:05:26,230 --> 00:05:23,759

look at the ksc weather edwards weather

147

00:05:27,909 --> 00:05:26,240

and possibly northwood northrop weather

148

00:05:31,189 --> 00:05:27,919

see how that looks and

149

00:05:32,310 --> 00:05:31,199

we'll for sure come home on friday

150

00:05:34,150 --> 00:05:32,320

let's see

151

00:05:36,830 --> 00:05:34,160

just a quick uh

152

00:05:40,070 --> 00:05:36,840

observations that we had this morning at

153

00:05:41,270 --> 00:05:40,080

ksc very very good ops uh they were all

154

00:05:44,629 --> 00:05:41,280

on go

155

00:05:47,270 --> 00:05:44,639

at deorbit tig it was few at 1300 few at

156

00:05:50,150 --> 00:05:47,280

6 000 scattered at 30 000

157

00:05:54,870 --> 00:05:50,160

and the winds were very light

158

00:05:57,029 --> 00:05:54,880

and landing same um observation so again

159

00:05:59,590 --> 00:05:57,039

today look pretty good and we expect the

160

00:06:02,150 --> 00:05:59,600

same for tomorrow

161

00:06:04,230 --> 00:06:02,160

see and that's all i had rob uh to

162

00:06:06,230 --> 00:06:04,240

report so i'll take any questions okay

163

00:06:08,309 --> 00:06:06,240

we've got questions here in houston tony

164

00:06:10,550 --> 00:06:08,319

and a number of reporters on our phone

165

00:06:11,670 --> 00:06:10,560

bridge uh so we'll start off here robert

166

00:06:13,830 --> 00:06:11,680

okay

167

00:06:16,790 --> 00:06:13,840

hi robert perlman with collectspace.com

168

00:06:18,790 --> 00:06:16,800

uh with two questions um first given

169

00:06:21,029 --> 00:06:18,800

that you have consumables and i know we

170

00:06:22,629 --> 00:06:21,039

heard the crews called down earlier

171

00:06:25,430 --> 00:06:22,639

today saying they'd be happy to land in

172

00:06:27,029 --> 00:06:25,440

day or night um but if the if the

173

00:06:27,909 --> 00:06:27,039

commander were to call down tomorrow and

174

00:06:29,590 --> 00:06:27,919

say

175

00:06:31,590 --> 00:06:29,600

the weather's solid let's go for a day

176

00:06:34,870 --> 00:06:31,600

landing would that affect your decision

177

00:06:36,629 --> 00:06:34,880

to wave off for the first rev uh no

178

00:06:38,230 --> 00:06:36,639

you know i know that everybody's looking

179

00:06:40,390 --> 00:06:38,240

forward to that but

180

00:06:42,710 --> 00:06:40,400

and you really don't know

181

00:06:44,629 --> 00:06:42,720

just you guys all know the ksc weather

182

00:06:46,710 --> 00:06:44,639

and any minute it can change and if you

183

00:06:49,350 --> 00:06:46,720

have a good opportunity you're going to

184

00:06:51,350 --> 00:06:49,360

take it no matter if it's day or night

185

00:06:53,430 --> 00:06:51,360

so you know uh leroy probably you heard

186

00:06:54,790 --> 00:06:53,440

leroy talk yesterday it's just

187

00:06:56,950 --> 00:06:54,800

you know whenever we have a good

188

00:06:58,230 --> 00:06:56,960

opportunity you never pass it up

189

00:06:59,990 --> 00:06:58,240

because you never know what that next

190

00:07:01,029 --> 00:07:00,000

opportunity is going to

191

00:07:04,629 --> 00:07:01,039

give you

192

00:07:06,550 --> 00:07:04,639

so uh i would say that even if if the uh

193

00:07:08,629 --> 00:07:06,560

first opportunity was for casco that's

194

00:07:10,790 --> 00:07:08,639

one we're going for

195

00:07:12,629 --> 00:07:10,800

and uh i saw on the tv schedule that

196

00:07:15,189 --> 00:07:12,639

you're planning to

197

00:07:17,270 --> 00:07:15,199

to deliver some closing remarks uh to

198

00:07:19,670 --> 00:07:17,280

your team after

199

00:07:21,189 --> 00:07:19,680

atlantis is down on the ground

200

00:07:22,469 --> 00:07:21,199

can you just talk a little bit about

201  
00:07:24,550 --> 00:07:22,479  
what you've been doing to prepare for

202  
00:07:26,070 --> 00:07:24,560  
those remarks if anything

203  
00:07:28,309 --> 00:07:26,080  
or have you written them or are you

204  
00:07:29,589 --> 00:07:28,319  
going to just speak from the

205  
00:07:31,510 --> 00:07:29,599  
from the moment

206  
00:07:33,270 --> 00:07:31,520  
uh no i i've written them down because i

207  
00:07:34,790 --> 00:07:33,280  
wanted to make sure

208  
00:07:35,990 --> 00:07:34,800  
to capture that moment i had all the

209  
00:07:37,990 --> 00:07:36,000  
right words

210  
00:07:39,589 --> 00:07:38,000  
and i know that i'm not the greatest

211  
00:07:41,670 --> 00:07:39,599  
person doing speeches so i wanted to

212  
00:07:43,589 --> 00:07:41,680  
make sure i had it written down and made

213  
00:07:46,230 --> 00:07:43,599

sure i again captured everything it's a

214

00:07:47,110 --> 00:07:46,240

very historical event but of course my

215

00:07:48,710 --> 00:07:47,120

uh

216

00:07:51,110 --> 00:07:48,720

first and upmost thing is to make sure i

217

00:07:52,469 --> 00:07:51,120

get the crew home safely but

218

00:07:54,309 --> 00:07:52,479

then after that

219

00:07:57,670 --> 00:07:54,319

we'll sit down and give us some closing

220

00:07:59,270 --> 00:07:57,680

remarks to the folks

221

00:08:03,029 --> 00:07:59,280

phil

222

00:08:04,550 --> 00:08:03,039

a couple questions um

223

00:08:06,629 --> 00:08:04,560

uh first uh

224

00:08:08,469 --> 00:08:06,639

what is uh could you just uh run through

225

00:08:10,309 --> 00:08:08,479

the the forecast for the other kona

226

00:08:14,469 --> 00:08:10,319

sites for edwards and northrup let's see

227

00:08:17,189 --> 00:08:14,479

uh edwards uh is basically uh sky clear

228

00:08:18,869 --> 00:08:17,199

for the next two days the only uh

229

00:08:20,469 --> 00:08:18,879

and on north up

230

00:08:22,309 --> 00:08:20,479

i think it was animation plus one

231

00:08:23,830 --> 00:08:22,319

there's monsoonal

232

00:08:27,430 --> 00:08:23,840

weather coming in there that is possibly

233

00:08:29,830 --> 00:08:27,440

there's gonna be some uh showers within

234

00:08:32,070 --> 00:08:29,840

20 or 30 miles so again we'll just take

235

00:08:34,469 --> 00:08:32,080

a look at it and see how it goes

236

00:08:37,430 --> 00:08:34,479

thanks and then i had a question about

237

00:08:39,990 --> 00:08:37,440

the the timeline for today uh pre-flight

238

00:08:42,310 --> 00:08:40,000

the crew talked about this day having

239

00:08:43,589 --> 00:08:42,320

pretty much no white space and

240

00:08:45,350 --> 00:08:43,599

of course during the mission they've

241

00:08:47,590 --> 00:08:45,360

been getting way ahead of the timeline

242

00:08:49,829 --> 00:08:47,600

uh frequently and so

243

00:08:51,990 --> 00:08:49,839

again it sounded like today they jumped

244

00:08:54,230 --> 00:08:52,000

into the pilot ops and then the flight

245

00:08:55,910 --> 00:08:54,240

fcs checkout

246

00:08:57,990 --> 00:08:55,920

and it also looked like there was some

247

00:09:00,389 --> 00:08:58,000

white space on the board uh even going

248

00:09:01,269 --> 00:09:00,399

into today how would you assess the the

249

00:09:07,430 --> 00:09:01,279

crew

250

00:09:09,269 --> 00:09:07,440

work capacity on this flight uh you know

251  
00:09:11,590 --> 00:09:09,279  
they're very motivated they want to make

252  
00:09:13,190 --> 00:09:11,600  
sure that this last mission is a a

253  
00:09:15,190 --> 00:09:13,200  
complete success

254  
00:09:17,269 --> 00:09:15,200  
and uh you know when we talked about a

255  
00:09:18,949 --> 00:09:17,279  
pre-flight they just said you know we're

256  
00:09:20,790 --> 00:09:18,959  
going to keep pressing we're going to do

257  
00:09:22,070 --> 00:09:20,800  
um you know work as hard as we can

258  
00:09:23,910 --> 00:09:22,080  
because we want to make sure it's a

259  
00:09:25,990 --> 00:09:23,920  
success you know last night we put them

260  
00:09:28,070 --> 00:09:26,000  
to bed a half an hour early and they

261  
00:09:29,590 --> 00:09:28,080  
woke up at half an hour early and you

262  
00:09:31,829 --> 00:09:29,600  
know we planned things for them you know

263  
00:09:33,590 --> 00:09:31,839

they have a two hour three or two and a

264

00:09:35,829 --> 00:09:33,600

half hour post sleep they had today well

265

00:09:37,110 --> 00:09:35,839

they decided that instead of you know

266

00:09:38,550 --> 00:09:37,120

getting all their post sleep in there

267

00:09:39,910 --> 00:09:38,560

they wanted to press on with the pilot

268

00:09:42,710 --> 00:09:39,920

ops and just get ahead of the timeline

269

00:09:44,710 --> 00:09:42,720

and that's what they did

270

00:09:46,550 --> 00:09:44,720

okay time to go to the phone bridge we

271

00:09:49,030 --> 00:09:46,560

have a number of reporters lined up and

272

00:09:51,030 --> 00:09:49,040

we'll start off with marcia dunn marcia

273

00:09:51,910 --> 00:09:51,040

yes good morning can you hear me sure

274

00:09:54,150 --> 00:09:51,920

can

275

00:09:56,630 --> 00:09:54,160

yes uh tony um there were some moving

276

00:09:58,710 --> 00:09:56,640

words this morning um from space down

277

00:09:59,590 --> 00:09:58,720

the mission control not to mention a

278

00:10:01,829 --> 00:09:59,600

poem

279

00:10:04,389 --> 00:10:01,839

and i'm wondering your feelings as you

280

00:10:05,750 --> 00:10:04,399

heard all that coming down you know

281

00:10:07,509 --> 00:10:05,760

poetry

282

00:10:09,430 --> 00:10:07,519

moving words from the crew i know you

283

00:10:10,790 --> 00:10:09,440

know you still have landing to focus on

284

00:10:12,069 --> 00:10:10,800

but surely

285

00:10:14,230 --> 00:10:12,079

you must have been feeling some

286

00:10:15,829 --> 00:10:14,240

sentiments at that time well you know i

287

00:10:17,910 --> 00:10:15,839

don't think you'd be human if you didn't

288

00:10:19,430 --> 00:10:17,920

feel something and every time you feel

289

00:10:21,590 --> 00:10:19,440

something you have to remember that you

290

00:10:23,590 --> 00:10:21,600

know this thing's not over yet

291

00:10:26,389 --> 00:10:23,600

but i tell you what i know marsha you

292

00:10:28,069 --> 00:10:26,399

guys been asking me this man since 132

293

00:10:29,670 --> 00:10:28,079

about you know the end of the program

294

00:10:31,110 --> 00:10:29,680

and how you're feeling and

295

00:10:33,030 --> 00:10:31,120

basically you've given me the

296

00:10:35,190 --> 00:10:33,040

opportunity to to say something here and

297

00:10:37,430 --> 00:10:35,200

i and i haven't written down to make

298

00:10:38,150 --> 00:10:37,440

sure again that i don't mess this up but

299

00:10:44,069 --> 00:10:38,160

uh

300

00:10:46,150 --> 00:10:44,079

let's see

301  
00:10:48,790 --> 00:10:46,160  
well as they say all good things must

302  
00:10:50,710 --> 00:10:48,800  
come to an end let's see uh for me it's

303  
00:10:53,110 --> 00:10:50,720  
been an unbelievable journey on a

304  
00:10:54,710 --> 00:10:53,120  
magnificent flying machine i'm very

305  
00:10:56,230 --> 00:10:54,720  
proud to have been part of the shuttle

306  
00:10:57,590 --> 00:10:56,240  
team

307  
00:10:59,030 --> 00:10:57,600  
i've been blessed to have supported

308  
00:11:01,110 --> 00:10:59,040  
sts-1

309  
00:11:02,710 --> 00:11:01,120  
as a flight controller and have the

310  
00:11:04,470 --> 00:11:02,720  
honor to be the entry flight director

311  
00:11:06,150 --> 00:11:04,480  
for sts-135

312  
00:11:07,509 --> 00:11:06,160  
so you can see i've been here for a

313  
00:11:09,750 --> 00:11:07,519

while

314

00:11:11,190 --> 00:11:09,760

my congratulations and thanks go to all

315

00:11:12,949 --> 00:11:11,200

the thousands of dedicated and

316

00:11:14,550 --> 00:11:12,959

passionate team members

317

00:11:17,030 --> 00:11:14,560

who have made the shuttle program the

318

00:11:19,110 --> 00:11:17,040

success it has been and contributed to

319

00:11:20,790 --> 00:11:19,120

the legacy that it leaves behind it's

320

00:11:22,949 --> 00:11:20,800

because of their blood sweat and tears

321

00:11:24,790 --> 00:11:22,959

that we can say mission complete

322

00:11:26,069 --> 00:11:24,800

it's time to celebrate this amazing

323

00:11:28,230 --> 00:11:26,079

accomplishment

324

00:11:30,150 --> 00:11:28,240

and look forward to the future uh

325

00:11:31,990 --> 00:11:30,160

godspeed to all

326

00:11:34,790 --> 00:11:32,000

so that's what my thoughts were about

327

00:11:37,110 --> 00:11:34,800

this and i'm sure post landing uh

328

00:11:39,269 --> 00:11:37,120

we'll have a uh some additional things

329

00:11:40,550 --> 00:11:39,279

but you guys must know that we do have a

330

00:11:42,790 --> 00:11:40,560

motto uh

331

00:11:44,870 --> 00:11:42,800

on in the mission control center that

332

00:11:47,750 --> 00:11:44,880

flight controllers don't cry so we're

333

00:11:50,470 --> 00:11:47,760

going to make sure we keep that

334

00:11:54,230 --> 00:11:50,480

thank you very much

335

00:11:59,110 --> 00:11:55,710

hi thanks um

336

00:12:01,110 --> 00:11:59,120

deniseiousnews.com um over the past

337

00:12:02,710 --> 00:12:01,120

couple days um i know the flight

338

00:12:05,190 --> 00:12:02,720

dynamics officer has been sort of

339

00:12:07,430 --> 00:12:05,200

reworking very slightly the landing time

340

00:12:08,629 --> 00:12:07,440

i wonder if you could explain um the

341

00:12:11,110 --> 00:12:08,639

main

342

00:12:13,110 --> 00:12:11,120

things that go into how they decide what

343

00:12:15,350 --> 00:12:13,120

the blinding time will be thanks let's

344

00:12:16,949 --> 00:12:15,360

see the main influence uh

345

00:12:19,269 --> 00:12:16,959

um from tweaking them a couple minutes

346

00:12:21,509 --> 00:12:19,279

here and there was the uh sep three burn

347

00:12:24,870 --> 00:12:21,519

that we performed this morning uh to get

348

00:12:27,269 --> 00:12:24,880

it set up for the uh picosat deploy

349

00:12:30,230 --> 00:12:27,279

so they were just determining the right

350

00:12:32,470 --> 00:12:30,240

delta v and of course uh uh

351  
00:12:34,710 --> 00:12:32,480  
raising the basket lowering the orbit

352  
00:12:36,550 --> 00:12:34,720  
and that's just going to change the tigs

353  
00:12:41,350 --> 00:12:36,560  
for the deorbit burn that was the main

354  
00:12:46,230 --> 00:12:44,150  
okay i think uh excuse me next up is leo

355  
00:12:48,389 --> 00:12:46,240  
enright

356  
00:12:50,949 --> 00:12:48,399  
uh thanks kyle and i didn't i don't

357  
00:12:52,710 --> 00:12:50,959  
really want to push this too far but i'm

358  
00:12:54,949 --> 00:12:52,720  
still not clear why

359  
00:12:56,870 --> 00:12:54,959  
um you can't land on the second attempt

360  
00:12:59,670 --> 00:12:56,880  
tomorrow being from television i'm

361  
00:13:01,990 --> 00:12:59,680  
interested in in pictures and i wonder

362  
00:13:03,750 --> 00:13:02,000  
if can you explain a little bit more why

363  
00:13:05,910 --> 00:13:03,760

you're so adamant and leroy was so out

364

00:13:09,110 --> 00:13:05,920

of it yesterday that you take every

365

00:13:10,710 --> 00:13:09,120

opportunity is this a major safety issue

366

00:13:12,949 --> 00:13:10,720

and if i could just a second brief

367

00:13:15,190 --> 00:13:12,959

question whether the

368

00:13:17,190 --> 00:13:15,200

uh whether people in central america

369

00:13:19,110 --> 00:13:17,200

will be able to see the shuttle as it uh

370

00:13:21,269 --> 00:13:19,120

as it re-enters in the morning i'll

371

00:13:23,190 --> 00:13:21,279

answer your last question uh yes they'll

372

00:13:25,110 --> 00:13:23,200

be able to see the uh uh

373

00:13:26,069 --> 00:13:25,120

the vehicle as it comes over with the uh

374

00:13:28,470 --> 00:13:26,079

um

375

00:13:29,910 --> 00:13:28,480

of course the uh trail of uh plasma

376

00:13:32,150 --> 00:13:29,920

coming behind it

377

00:13:36,389 --> 00:13:32,160

uh i'll answer your first question is uh

378

00:13:37,990 --> 00:13:36,399

you know i always think about uh uh

379

00:13:40,710 --> 00:13:38,000

you know about walking a mile in a man's

380

00:13:42,629 --> 00:13:40,720

shoes uh you know you sit at the entry

381

00:13:44,870 --> 00:13:42,639

flight director console and there's a

382

00:13:46,470 --> 00:13:44,880

lot of things you have to worry about

383

00:13:47,670 --> 00:13:46,480

and uh

384

00:13:48,710 --> 00:13:47,680

worrying about

385

00:13:49,910 --> 00:13:48,720

there's a lot of different things you

386

00:13:52,310 --> 00:13:49,920

have to worry about making sure the

387

00:13:55,030 --> 00:13:52,320

vehicle is in a good config making sure

388

00:13:56,629 --> 00:13:55,040

get the crew and

389

00:13:58,230 --> 00:13:56,639

you step back and look at this and as

390

00:14:00,949 --> 00:13:58,240

nice as it would be to land at the

391

00:14:03,030 --> 00:14:00,959

daytime to uh you know get some very

392

00:14:05,110 --> 00:14:03,040

good pictures uh you never want to give

393

00:14:06,870 --> 00:14:05,120

up opportunity it's just like uh you

394

00:14:08,790 --> 00:14:06,880

know hey let me just you know this is

395

00:14:10,949 --> 00:14:08,800

not a good enough uh setup for me or

396

00:14:13,189 --> 00:14:10,959

whatever i want to wait to hear and then

397

00:14:14,710 --> 00:14:13,199

you i mean like i talked before you've

398

00:14:16,470 --> 00:14:14,720

always seen the kfc weather just get

399

00:14:17,829 --> 00:14:16,480

worse even though the forecast says hey

400

00:14:20,710 --> 00:14:17,839

it's going to be

401  
00:14:22,230 --> 00:14:20,720  
sky clear and you don't know when so

402  
00:14:24,230 --> 00:14:22,240  
when you're sitting at that console and

403  
00:14:27,750 --> 00:14:24,240  
you have the opportunity to come home

404  
00:14:29,509 --> 00:14:27,760  
you take it day or night so uh

405  
00:14:33,030 --> 00:14:29,519  
you know i know a lot of folks want to

406  
00:14:34,870 --> 00:14:33,040  
see this but it you know again it's just

407  
00:14:36,470 --> 00:14:34,880  
you when you have that opportunity and

408  
00:14:41,189 --> 00:14:36,480  
it all looks good and it's safe to come

409  
00:14:46,470 --> 00:14:44,790  
okay bill harwood is next

410  
00:14:49,110 --> 00:14:46,480  
hey thanks tony uh

411  
00:14:51,189 --> 00:14:49,120  
i'll ask you yet another uh reporter

412  
00:14:52,790 --> 00:14:51,199  
emotion question but maybe in a slightly

413  
00:14:54,470 --> 00:14:52,800

different way

414

00:14:56,150 --> 00:14:54,480

you know the ascent entry team in

415

00:14:57,509 --> 00:14:56,160

mission control has really been the tip

416

00:14:58,790 --> 00:14:57,519

of the spear

417

00:14:59,990 --> 00:14:58,800

through the history of manned space

418

00:15:01,430 --> 00:15:00,000

flight in this country they're all going

419

00:15:03,509 --> 00:15:01,440

to walk out that door tomorrow for the

420

00:15:05,509 --> 00:15:03,519

last time and it's not clear to me

421

00:15:07,910 --> 00:15:05,519

anyway whether you'll ever have or even

422

00:15:09,750 --> 00:15:07,920

need a team like that again

423

00:15:12,150 --> 00:15:09,760

what are your thoughts about that

424

00:15:13,189 --> 00:15:12,160

on the eve of this final landing what

425

00:15:14,949 --> 00:15:13,199

would you say to the team what do you

426

00:15:15,910 --> 00:15:14,959

say to the country about a team like

427

00:15:17,670 --> 00:15:15,920

that

428

00:15:19,110 --> 00:15:17,680

and its end

429

00:15:21,670 --> 00:15:19,120

uh you know

430

00:15:23,189 --> 00:15:21,680

our hope is that this is not at the end

431

00:15:25,350 --> 00:15:23,199

um you know

432

00:15:26,470 --> 00:15:25,360

everyone keeps asking the crew us that

433

00:15:27,910 --> 00:15:26,480

question

434

00:15:30,310 --> 00:15:27,920

we know there's going to be a rough spot

435

00:15:32,790 --> 00:15:30,320

for a while but we hope

436

00:15:35,509 --> 00:15:32,800

that when we do get a good plan a good

437

00:15:37,670 --> 00:15:35,519

direction a good mission that

438

00:15:39,509 --> 00:15:37,680

we can come back in here and do what

439

00:15:41,269 --> 00:15:39,519

we've been doing for the past 30 years

440

00:15:43,990 --> 00:15:41,279

and for the shuttle and you know the

441

00:15:46,710 --> 00:15:44,000

years before that with uh mercury gemini

442

00:15:51,509 --> 00:15:48,870

you know it's it's tough to think about

443

00:15:52,389 --> 00:15:51,519

that you know all this experience

444

00:15:54,230 --> 00:15:52,399

um

445

00:15:56,230 --> 00:15:54,240

you know all these years of experience

446

00:15:59,110 --> 00:15:56,240

of walking out the door without using it

447

00:16:01,590 --> 00:15:59,120

we have high hopes bill and uh

448

00:16:03,030 --> 00:16:01,600

we're gonna uh continue to uh

449

00:16:04,710 --> 00:16:03,040

look towards the future and hopefully we

450

00:16:06,069 --> 00:16:04,720

can utilize all this experience that we

451  
00:16:07,829 --> 00:16:06,079  
have

452  
00:16:09,110 --> 00:16:07,839  
thanks tony good luck with entry thank

453  
00:16:11,990 --> 00:16:09,120  
you sir

454  
00:16:15,350 --> 00:16:12,000  
next up is mark caro mark

455  
00:16:19,350 --> 00:16:15,360  
yes thank you um i just wanted to to see

456  
00:16:20,629 --> 00:16:19,360  
uh um if you had any updates on the tps

457  
00:16:23,430 --> 00:16:20,639  
survey

458  
00:16:25,030 --> 00:16:23,440  
from yesterday um if it all

459  
00:16:27,030 --> 00:16:25,040  
don't look good

460  
00:16:28,629 --> 00:16:27,040  
let's see mark when we were on console

461  
00:16:31,189 --> 00:16:28,639  
uh the

462  
00:16:33,749 --> 00:16:31,199  
tick folks did report that they were

463  
00:16:35,110 --> 00:16:33,759

completed 100 percent of all review of

464

00:16:37,509 --> 00:16:35,120

the imagery

465

00:16:38,629 --> 00:16:37,519

nothing stood out at that point in time

466

00:16:40,389 --> 00:16:38,639

but of course they got to go through

467

00:16:42,069 --> 00:16:40,399

their standard process

468

00:16:43,670 --> 00:16:42,079

speak with the management team and such

469

00:16:44,870 --> 00:16:43,680

and i think that's earlier today that

470

00:16:46,949 --> 00:16:44,880

they're going to

471

00:16:49,110 --> 00:16:46,959

come back with the final assessment but

472

00:16:51,110 --> 00:16:49,120

we we did know that they completed it

473

00:16:52,790 --> 00:16:51,120

and we're just standing by to see what

474

00:16:54,629 --> 00:16:52,800

the final report is

475

00:16:56,069 --> 00:16:54,639

okay thank you and i had a weather

476

00:16:58,710 --> 00:16:56,079

question as well

477

00:17:01,430 --> 00:16:58,720

tomorrow for florida it sounds like the

478

00:17:03,110 --> 00:17:01,440

forecast is basically the same for both

479

00:17:05,189 --> 00:17:03,120

landing opportunities but i wanted to

480

00:17:07,750 --> 00:17:05,199

make sure if that was your sense of it

481

00:17:09,510 --> 00:17:07,760

as well uh yes sir

482

00:17:10,470 --> 00:17:09,520

thank you very much

483

00:17:13,909 --> 00:17:10,480

okay

484

00:17:16,870 --> 00:17:13,919

we have irene klotz on the line

485

00:17:19,429 --> 00:17:16,880

thanks rob um tony that did the landing

486

00:17:21,590 --> 00:17:19,439

time change again now is it back to the

487

00:17:24,150 --> 00:17:21,600

5 56 uh

488

00:17:27,510 --> 00:17:24,160

from yesterday's 557 did i hear that

489

00:17:29,190 --> 00:17:27,520

right uh no it's still around 5 57.

490

00:17:30,950 --> 00:17:29,200

and i mean it's rounding up a couple of

491

00:17:33,190 --> 00:17:30,960

seconds short of that yeah rounding up

492

00:17:35,909 --> 00:17:33,200

to that

493

00:17:39,110 --> 00:17:35,919

okay so main gear main gear touchdown is

494

00:17:42,230 --> 00:17:39,120

still 5 56 and some number of seconds

495

00:17:44,549 --> 00:17:42,240

it's 5 56 58 right now irene

496

00:17:46,070 --> 00:17:44,559

okay i just round up thanks very much i

497

00:17:48,310 --> 00:17:46,080

round up because that's too many numbers

498

00:17:50,470 --> 00:17:48,320

for me tony rounds up we round down so

499

00:17:52,070 --> 00:17:50,480

you don't miss anything yeah the editors

500

00:17:53,669 --> 00:17:52,080

do something else so just want to

501  
00:17:54,470 --> 00:17:53,679  
clarify that thanks

502  
00:17:55,510 --> 00:17:54,480  
bye

503  
00:17:59,029 --> 00:17:55,520  
you're welcome

504  
00:17:59,039 --> 00:18:03,350  
gina are you there

505  
00:18:08,310 --> 00:18:05,029  
okay i don't think we have gina on the

506  
00:18:13,669 --> 00:18:10,630  
guess not any questions back here before

507  
00:18:15,110 --> 00:18:13,679  
we close robert

508  
00:18:17,350 --> 00:18:15,120  
just uh hi robert prowling with

509  
00:18:19,029 --> 00:18:17,360  
collectspace.com with just one follow-up

510  
00:18:20,710 --> 00:18:19,039  
um you mentioned a tradition of not

511  
00:18:23,110 --> 00:18:20,720  
crying in mission control there have

512  
00:18:26,150 --> 00:18:23,120  
been other traditions in the past of uh

513  
00:18:27,430 --> 00:18:26,160

on landings of american flags or cigars

514

00:18:29,750 --> 00:18:27,440

or other things like that do you have

515

00:18:31,990 --> 00:18:29,760

any plans to pass out anything to your

516

00:18:33,350 --> 00:18:32,000

team

517

00:18:35,110 --> 00:18:33,360

right now no you know of course we can't

518

00:18:37,430 --> 00:18:35,120

smoke in the control center anymore you

519

00:18:39,750 --> 00:18:37,440

know and uh but

520

00:18:41,430 --> 00:18:39,760

i think one of the things that

521

00:18:42,630 --> 00:18:41,440

i'm going to try to do is

522

00:18:44,630 --> 00:18:42,640

you know again

523

00:18:46,070 --> 00:18:44,640

it is a historical moment but we still

524

00:18:48,230 --> 00:18:46,080

need to make sure we get this crew

525

00:18:50,789 --> 00:18:48,240

safely off the vehicle and we get the

526

00:18:52,789 --> 00:18:50,799

crew safer hand over to ksc

527

00:18:54,789 --> 00:18:52,799

once we get that complete i think one of

528

00:18:57,430 --> 00:18:54,799

the things that i really want to do is

529

00:18:59,669 --> 00:18:57,440

get the entire team up in the uh the

530

00:19:02,470 --> 00:18:59,679

flight control room the white flicker and

531

00:19:04,470 --> 00:19:02,480

just have us all sit there soak it in

532

00:19:06,870 --> 00:19:04,480

and just watch the crew walk around and

533

00:19:09,590 --> 00:19:06,880

congratulate on each other on a job well

534

00:19:12,950 --> 00:19:11,430

okay i think that wraps up all of our

535

00:19:15,750 --> 00:19:12,960

questions we'll close with a few

536

00:19:17,830 --> 00:19:15,760

programming notes the sts-135 ascent

537

00:19:19,990 --> 00:19:17,840

imagery highlights replay that you've

538

00:19:22,390 --> 00:19:20,000

been seeing over the last day we'll have

539

00:19:24,390 --> 00:19:22,400

two more replays of that at 9 00 a.m and

540

00:19:26,310 --> 00:19:24,400

10 a.m central time

541

00:19:29,830 --> 00:19:26,320

as tony mentioned the crew begins at

542

00:19:32,150 --> 00:19:29,840

sleep period at 12 29 pm central uh our

543

00:19:34,630 --> 00:19:32,160

flight day highlights begin at 2 p.m

544

00:19:37,110 --> 00:19:34,640

central time today we're on rev n as in

545

00:19:40,230 --> 00:19:37,120

nancy of the tv schedule the crew will

546

00:19:42,230 --> 00:19:40,240

wake up at 8 29 pm central time tonight

547

00:19:44,549 --> 00:19:42,240

to begin de-orbit preparations for the

548

00:19:46,630 --> 00:19:44,559

final landing in space shuttle program