



1
00:00:06,869 --> 00:00:04,950
good morning thank you for joining us

2
00:00:08,870 --> 00:00:06,879
here at nasa's kennedy space center in

3
00:00:10,549 --> 00:00:08,880
florida for space shuttle atlantis's

4
00:00:12,709 --> 00:00:10,559
sts-135

5
00:00:15,749 --> 00:00:12,719
pre-countdown status briefing it's l

6
00:00:17,430 --> 00:00:15,759
minus three here at kennedy on space

7
00:00:18,870 --> 00:00:17,440
shuttle atlantis final flight and the

8
00:00:20,710 --> 00:00:18,880
final flight of

9
00:00:22,630 --> 00:00:20,720
the space shuttle program i'd like to

10
00:00:27,029 --> 00:00:22,640
introduce our panelists today jeremy

11
00:00:32,150 --> 00:00:28,269
joe delai

12
00:00:33,670 --> 00:00:32,160
sts-135 payload manager good morning

13
00:00:36,549 --> 00:00:33,680

and kathy winters shuttle weather

14

00:00:37,750 --> 00:00:36,559

officer good morning

15

00:00:40,950 --> 00:00:37,760

we'll hear from our panelists and then

16

00:00:42,549 --> 00:00:40,960

take questions jeremy thanks andrea

17

00:00:43,830 --> 00:00:42,559

good morning everybody

18

00:00:46,630 --> 00:00:43,840

let's see i hope everyone had a great

19

00:00:48,549 --> 00:00:46,640

fourth of july holiday yesterday uh i

20

00:00:49,510 --> 00:00:48,559

can't think of a better way to start off

21

00:00:51,350 --> 00:00:49,520

the week

22

00:00:54,229 --> 00:00:51,360

fourth of july on monday

23

00:00:57,430 --> 00:00:54,239

uh and the start of the sgs-135 launch

24

00:00:59,430 --> 00:00:57,440

countdown today followed up by launch on

25

00:01:00,549 --> 00:00:59,440

friday looking forward to a great week

26

00:01:04,070 --> 00:01:00,559

here

27

00:01:05,270 --> 00:01:04,080

and all the nasa centers across the

28

00:01:07,270 --> 00:01:05,280

country

29

00:01:09,830 --> 00:01:07,280

have been working for over a year

30

00:01:12,390 --> 00:01:09,840

to prepare atlantis the external tank

31

00:01:14,469 --> 00:01:12,400

our solid rocket boosters the payload

32

00:01:17,190 --> 00:01:14,479

and all of our ground systems

33

00:01:18,550 --> 00:01:17,200

for the sds-135 mission

34

00:01:20,950 --> 00:01:18,560

all of our preparations for launch

35

00:01:23,030 --> 00:01:20,960

countdown have been completed or are in

36

00:01:24,469 --> 00:01:23,040

work and we're working no issues at this

37

00:01:26,070 --> 00:01:24,479

time

38

00:01:28,230 --> 00:01:26,080

over the past 10 days we've completed

39

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

several major milestones leading up to

40

00:01:31,590 --> 00:01:29,920

launch countdown

41

00:01:32,870 --> 00:01:31,600

ordinance installation final

42

00:01:35,270 --> 00:01:32,880

pressurization of our orbiter

43

00:01:37,670 --> 00:01:35,280

maneuvering system and main propulsion

44

00:01:39,429 --> 00:01:37,680

system high pressure tanks and the final

45

00:01:41,030 --> 00:01:39,439

closure of atlantis payload bay doors

46

00:01:42,230 --> 00:01:41,040

were all completed last week with no

47

00:01:44,789 --> 00:01:42,240

issues

48

00:01:47,109 --> 00:01:44,799

and as you know the ses 135

49

00:01:49,109 --> 00:01:47,119

flight crew arrived yesterday afternoon

50

00:01:51,030 --> 00:01:49,119

and commander chris ferguson and his

51
00:01:53,030 --> 00:01:51,040
crew are very excited to be here and

52
00:01:54,469 --> 00:01:53,040
ready to

53
00:01:56,469 --> 00:01:54,479
get on with launch countdown and get to

54
00:01:57,830 --> 00:01:56,479
launch on friday

55
00:01:59,350 --> 00:01:57,840
i'll go through a quick summary of the

56
00:02:00,630 --> 00:01:59,360
launch countdown event scheduled for the

57
00:02:02,230 --> 00:02:00,640
week

58
00:02:04,310 --> 00:02:02,240
our operations today

59
00:02:06,789 --> 00:02:04,320
launch countdown call to stations is set

60
00:02:09,190 --> 00:02:06,799
for 12 30 pm today and the countdown

61
00:02:10,630 --> 00:02:09,200
clock will begin counting at one

62
00:02:13,110 --> 00:02:10,640
we'll pick up with the checkout and

63
00:02:14,390 --> 00:02:13,120

configuration of atlantis's avionics

64

00:02:15,910 --> 00:02:14,400

systems

65

00:02:18,949 --> 00:02:15,920

and we'll continue with several other

66

00:02:20,710 --> 00:02:18,959

vehicle configuration and ground uh

67

00:02:22,869 --> 00:02:20,720

verifications all leading up to our

68

00:02:25,510 --> 00:02:22,879

first major milestone on wednesday

69

00:02:27,030 --> 00:02:25,520

morning with the loading of atlantis's

70

00:02:29,670 --> 00:02:27,040

onboard liquid oxygen and liquid

71

00:02:31,670 --> 00:02:29,680

hydrogen tanks used for the electrical

72

00:02:33,830 --> 00:02:31,680

power generation system

73

00:02:36,630 --> 00:02:33,840

loading will start at 10 30 am and

74

00:02:38,229 --> 00:02:36,640

finish at 3 30 pm

75

00:02:40,550 --> 00:02:38,239

later wednesday night we'll pick up with

76
00:02:42,630 --> 00:02:40,560
the space shuttle main engine checkouts

77
00:02:43,910 --> 00:02:42,640
and as we move into thursday morning

78
00:02:45,670 --> 00:02:43,920
we'll pick up with the checkout of the

79
00:02:47,990 --> 00:02:45,680
orbiter and ground communications

80
00:02:49,509 --> 00:02:48,000
network at 9 30 a.m

81
00:02:51,270 --> 00:02:49,519
the retraction of the rotating service

82
00:02:53,830 --> 00:02:51,280
structure is at 2 pm on thursday

83
00:02:58,470 --> 00:02:55,990
and we'll begin clearing the launch pad

84
00:03:02,070 --> 00:02:58,480
at 9 pm thursday evening leading to the

85
00:03:05,350 --> 00:03:02,080
external tank loading from 201 am to 501

86
00:03:06,949 --> 00:03:05,360
am friday morning

87
00:03:08,309 --> 00:03:06,959
let's see the final inspection team and

88
00:03:10,790 --> 00:03:08,319

the closeout crew will proceed to the

89

00:03:12,869 --> 00:03:10,800

launch pad just after 5 am to inspect

90

00:03:15,110 --> 00:03:12,879

the vehicle and prepare atlantis for the

91

00:03:16,630 --> 00:03:15,120

flight crew to arrive just after 8 am

92

00:03:18,790 --> 00:03:16,640

friday morning

93

00:03:20,790 --> 00:03:18,800

our launch window for friday

94

00:03:23,830 --> 00:03:20,800

is approximately 10 minutes in length

95

00:03:24,949 --> 00:03:23,840

and it opens at 11 21 a.m

96

00:03:26,309 --> 00:03:24,959

on friday

97

00:03:28,390 --> 00:03:26,319

and we generally target the middle of

98

00:03:31,509 --> 00:03:28,400

that window which correlates to about 11

99

00:03:33,830 --> 00:03:31,519

26 a.m and as always we'll uh we'll sync

100

00:03:35,110 --> 00:03:33,840

up with daily launch parameters and the

101
00:03:36,710 --> 00:03:35,120
actual launch time will be updated

102
00:03:38,710 --> 00:03:36,720
during the t-minus nine minute hold on

103
00:03:41,509 --> 00:03:38,720
friday

104
00:03:44,070 --> 00:03:41,519
the sts-135 mission is a 12-day mission

105
00:03:46,789 --> 00:03:44,080
with zero contingency days and two

106
00:03:48,869 --> 00:03:46,799
weather contingency days our end of

107
00:03:52,149 --> 00:03:48,879
mission landing is planned at ksc at

108
00:03:53,910 --> 00:03:52,159
approximately 6 57 a.m on wednesday july

109
00:03:56,309 --> 00:03:53,920
20th and should we use one of those

110
00:03:58,470 --> 00:03:56,319
weather contingency days

111
00:04:01,190 --> 00:03:58,480
end of mission landing would be at 6 a.m

112
00:04:02,710 --> 00:04:01,200
on thursday july 21st

113
00:04:06,070 --> 00:04:02,720

so in summary all of our vehicle and

114

00:04:08,550 --> 00:04:06,080

ground systems are ready the sds-135

115

00:04:09,670 --> 00:04:08,560

crew atlantis and the launch team are

116

00:04:11,509 --> 00:04:09,680

all ready to proceed with launch

117

00:04:13,670 --> 00:04:11,519

countdown and we're looking forward to

118

00:04:15,190 --> 00:04:13,680

getting underway with count and leading

119

00:04:17,270 --> 00:04:15,200

to a spectacular launch on friday

120

00:04:18,870 --> 00:04:17,280

morning thank you

121

00:04:19,749 --> 00:04:18,880

thank you joe

122

00:04:21,590 --> 00:04:19,759

thank you

123

00:04:23,350 --> 00:04:21,600

well good morning as jeremy said we're

124

00:04:25,430 --> 00:04:23,360

excited to be here i hope everybody had

125

00:04:27,350 --> 00:04:25,440

a good fourth of july weekend

126

00:04:29,189 --> 00:04:27,360

um this is going to be an exciting week

127

00:04:30,710 --> 00:04:29,199

for everyone i'd like to thank you for

128

00:04:32,310 --> 00:04:30,720

your support

129

00:04:33,110 --> 00:04:32,320

and this is a very special mission for

130

00:04:34,550 --> 00:04:33,120

us

131

00:04:36,469 --> 00:04:34,560

last year

132

00:04:37,590 --> 00:04:36,479

a little over a year ago casey was asked

133

00:04:39,270 --> 00:04:37,600

to

134

00:04:41,189 --> 00:04:39,280

do some

135

00:04:44,790 --> 00:04:41,199

unique work in the module we were asked

136

00:04:47,270 --> 00:04:44,800

to redesign our storage racks

137

00:04:49,189 --> 00:04:47,280

in order to allow more stowage weight

138

00:04:50,710 --> 00:04:49,199

wise and volume wise to be brought up on

139

00:04:52,629 --> 00:04:50,720

this mission

140

00:04:54,629 --> 00:04:52,639

and we're also asked to keep the hatch

141

00:04:56,070 --> 00:04:54,639

open as late as possible

142

00:04:57,990 --> 00:04:56,080

with the original launch date i think

143

00:04:59,830 --> 00:04:58,000

was june we actually would have been

144

00:05:01,029 --> 00:04:59,840

coming to pad I minus 12 which is kind

145

00:05:03,830 --> 00:05:01,039

of unique

146

00:05:06,710 --> 00:05:03,840

so we uh we adhered to that

147

00:05:08,550 --> 00:05:06,720

and um everything went really well

148

00:05:11,909 --> 00:05:08,560

when it came to story drops

149

00:05:15,029 --> 00:05:11,919

one of the one of the primary objectives

150

00:05:17,110 --> 00:05:15,039

of this mission is to resupply iss

151
00:05:19,990 --> 00:05:17,120
for one year and we're going to perform

152
00:05:22,150 --> 00:05:20,000
that we're going to perform that task

153
00:05:24,070 --> 00:05:22,160
we're also going to bring to the iss a

154
00:05:25,510 --> 00:05:24,080
first of its kind robotic refueling

155
00:05:28,230 --> 00:05:25,520
mission

156
00:05:29,909 --> 00:05:28,240
so uh payloads are looking fantastic we

157
00:05:33,270 --> 00:05:29,919
have no issues

158
00:05:35,430 --> 00:05:33,280
we look forward to a launch on july 8th

159
00:05:37,510 --> 00:05:35,440
and i look forward to a very detailed

160
00:05:39,430 --> 00:05:37,520
payload briefing

161
00:05:40,710 --> 00:05:39,440
on I minus one

162
00:05:43,029 --> 00:05:40,720
so today

163
00:05:46,070 --> 00:05:43,039

um at 12 30

164

00:05:47,670 --> 00:05:46,080

you're going to be given a kc payload

165

00:05:50,629 --> 00:05:47,680

demonstration

166

00:05:52,950 --> 00:05:50,639

one of our ford osmosis bag experiments

167

00:05:55,590 --> 00:05:52,960

so i look forward to that

168

00:05:57,670 --> 00:05:55,600

and then tomorrow at 2 30 our robotic

169

00:06:00,070 --> 00:05:57,680

refueling team is going to give a

170

00:06:01,909 --> 00:06:00,080

demonstration and experiment

171

00:06:03,909 --> 00:06:01,919

and of course i'll see here at I minus 1

172

00:06:05,670 --> 00:06:03,919

again at 10 o'clock for a very detailed

173

00:06:06,950 --> 00:06:05,680

brief on our payloads thank you very

174

00:06:08,710 --> 00:06:06,960

much

175

00:06:10,790 --> 00:06:08,720

thank you joe kathy

176

00:06:12,870 --> 00:06:10,800

good morning well i wish i had better

177

00:06:14,309 --> 00:06:12,880

weather for you weather briefing for you

178

00:06:16,230 --> 00:06:14,319

but it does look like we are going to

179

00:06:18,070 --> 00:06:16,240

have some weather at least potential for

180

00:06:20,070 --> 00:06:18,080

weather in the area for launch time

181

00:06:21,990 --> 00:06:20,080

right now we are going with a 60 chance

182

00:06:24,790 --> 00:06:22,000

of ksc weather prohibiting launch due to

183

00:06:26,790 --> 00:06:24,800

the potential for showers and isolated

184

00:06:28,390 --> 00:06:26,800

thunderstorms in the area what's going

185

00:06:29,670 --> 00:06:28,400

to happen is the next few days we're

186

00:06:31,350 --> 00:06:29,680

going to have some good weather but then

187

00:06:33,350 --> 00:06:31,360

we have an easterly wave that comes into

188

00:06:35,350 --> 00:06:33,360

the area on thursday bringing a lot of

189

00:06:37,430 --> 00:06:35,360

shower activity and with it usually with

190

00:06:38,790 --> 00:06:37,440

easterly waves we get a lot of showers

191

00:06:40,950 --> 00:06:38,800

not necessarily a lot of thunderstorm

192

00:06:42,629 --> 00:06:40,960

activity but some isolated activity then

193

00:06:45,350 --> 00:06:42,639

as it pushes in it's going to really

194

00:06:46,870 --> 00:06:45,360

moisten up our atmosphere so by friday

195

00:06:48,390 --> 00:06:46,880

we do expect a sea breeze to be

196

00:06:50,469 --> 00:06:48,400

developing around the time

197

00:06:52,629 --> 00:06:50,479

of the launch window and showers and

198

00:06:54,550 --> 00:06:52,639

even potentially an isolated storm to

199

00:06:55,670 --> 00:06:54,560

develop along that sea breeze as it

200

00:06:57,350 --> 00:06:55,680

forms

201
00:06:59,350 --> 00:06:57,360
so our primary concern for launch will

202
00:07:00,710 --> 00:06:59,360
be showers and thunderstorms within 20

203
00:07:04,390 --> 00:07:00,720
nautical miles of the shuttle landing

204
00:07:06,230 --> 00:07:04,400
facility for return to launch site abort

205
00:07:09,110 --> 00:07:06,240
weather and also cumulus cloud

206
00:07:10,870 --> 00:07:09,120
development within 10 nautical miles of

207
00:07:12,309 --> 00:07:10,880
the launch pad there's also several

208
00:07:13,830 --> 00:07:12,319
other constraints that could be violated

209
00:07:15,670 --> 00:07:13,840
such as a ceiling or a flight through

210
00:07:17,749 --> 00:07:15,680
precip constraint but those are our

211
00:07:19,430 --> 00:07:17,759
primary concerns let's go and look at a

212
00:07:21,909 --> 00:07:19,440
satellite picture you can see on the

213
00:07:24,550 --> 00:07:21,919

satellite down around hispaniola and

214

00:07:27,029 --> 00:07:24,560

the kirk turks and caicos islands is the

215

00:07:28,629 --> 00:07:27,039

area where that easterly wave is now

216

00:07:29,830 --> 00:07:28,639

these waves are pretty typical for us

217

00:07:31,510 --> 00:07:29,840

this time of year and they just ride

218

00:07:34,150 --> 00:07:31,520

along the south side of the ridge we'll

219

00:07:36,070 --> 00:07:34,160

come right into florida on thursday all

220

00:07:37,749 --> 00:07:36,080

the weather associated with

221

00:07:39,909 --> 00:07:37,759

with the wave is on the east side of the

222

00:07:41,749 --> 00:07:39,919

wave so the weather will be the wave is

223

00:07:43,430 --> 00:07:41,759

actually you know just to the what just

224

00:07:45,110 --> 00:07:43,440

to the west of all that activity you see

225

00:07:47,270 --> 00:07:45,120

there so that will all be moving on

226

00:07:48,469 --> 00:07:47,280

thursday again atmosphere moisten up we

227

00:07:50,390 --> 00:07:48,479

have real high

228

00:07:52,230 --> 00:07:50,400

moisture on friday when we have high

229

00:07:53,990 --> 00:07:52,240

moisture particularly in the low levels

230

00:07:57,029 --> 00:07:54,000

we can pop those thunderstorms and

231

00:07:58,390 --> 00:07:57,039

showers early when the sea breeze forms

232

00:08:00,309 --> 00:07:58,400

let's go ahead and get into our tanking

233

00:08:02,230 --> 00:08:00,319

forecast for tanking overall weather

234

00:08:04,070 --> 00:08:02,240

looks pretty good we do expect showers

235

00:08:05,749 --> 00:08:04,080

in the area associated with the easterly

236

00:08:07,990 --> 00:08:05,759

wave and we'll probably see a lot of

237

00:08:09,029 --> 00:08:08,000

shower activity and some isolated

238

00:08:10,309 --> 00:08:09,039

potential for some isolated

239

00:08:12,869 --> 00:08:10,319

thunderstorms so with that we did go

240

00:08:15,350 --> 00:08:12,879

with a 20 chance of ksc weather

241

00:08:18,469 --> 00:08:15,360

prohibiting tanking

242

00:08:20,390 --> 00:08:18,479

as we go into our launch forecast we do

243

00:08:21,749 --> 00:08:20,400

have a potential again for showers and

244

00:08:23,909 --> 00:08:21,759

thunderstorms develop along the sea

245

00:08:25,749 --> 00:08:23,919

breeze winds will be a lot along the

246

00:08:27,510 --> 00:08:25,759

coast from the southeast or south

247

00:08:28,950 --> 00:08:27,520

southeast and then back at the slf

248

00:08:31,029 --> 00:08:28,960

there'll be a little bit more

249

00:08:32,709 --> 00:08:31,039

from the south southwest again the sea

250

00:08:34,949 --> 00:08:32,719

breeze will be forming we get low level

251

00:08:36,550 --> 00:08:34,959

convergence we get the rising

252

00:08:38,149 --> 00:08:36,560

rising air and that's what gives us the

253

00:08:40,949 --> 00:08:38,159

showers and storms so with that we have

254

00:08:43,509 --> 00:08:40,959

a 60 chance of ksc weather prohibiting

255

00:08:47,190 --> 00:08:45,670

as we go into the srb recovery forecast

256

00:08:48,630 --> 00:08:47,200

weather looks overall pretty good out

257

00:08:50,470 --> 00:08:48,640

there there is a chance for some showers

258

00:08:51,990 --> 00:08:50,480

and thunderstorms over the gulf stream

259

00:08:53,990 --> 00:08:52,000

but generally the weather is good with

260

00:08:55,829 --> 00:08:54,000

seas just three to four feet and winds

261

00:08:57,910 --> 00:08:55,839

peaking about 12 knots so overall good

262

00:08:59,670 --> 00:08:57,920

weather for srb recovery just might have

263

00:09:01,750 --> 00:08:59,680

to deal with a little bit of showers and

264

00:09:04,310 --> 00:09:01,760

storms

265

00:09:05,430 --> 00:09:04,320

for the abort landing sites in the u.s

266

00:09:07,030 --> 00:09:05,440

space flight meteorology group is

267

00:09:10,070 --> 00:09:07,040

forecasting great weather both at

268

00:09:11,509 --> 00:09:10,080

edwards and at northrop real nice decent

269

00:09:13,590 --> 00:09:11,519

winds and

270

00:09:15,990 --> 00:09:13,600

pretty clear skies just scattered at 20

271

00:09:17,350 --> 00:09:16,000

000 at northrop

272

00:09:19,269 --> 00:09:17,360

and for the tower sites weather is

273

00:09:21,269 --> 00:09:19,279

really looking great all three days for

274

00:09:23,030 --> 00:09:21,279

the towel sites for the first day you're

275

00:09:24,870 --> 00:09:23,040

just looking at a few clouds it's

276

00:09:26,790 --> 00:09:24,880

aragosa and you can see sky clear there

277

00:09:29,190 --> 00:09:26,800

at marone and just a few clouds there it

278

00:09:31,030 --> 00:09:29,200

is and winds are all pretty light so

279

00:09:34,070 --> 00:09:31,040

very good weather for the towel sites

280

00:09:37,670 --> 00:09:36,230

if we do happen to delay 24 hours the

281

00:09:39,670 --> 00:09:37,680

moisture just gradually starts to

282

00:09:41,829 --> 00:09:39,680

decrease also our launch time gets

283

00:09:43,269 --> 00:09:41,839

earlier and so that helps us in that the

284

00:09:44,790 --> 00:09:43,279

sea breeze will be developing but we

285

00:09:46,949 --> 00:09:44,800

won't get as much

286

00:09:49,190 --> 00:09:46,959

development before or by the launch

287

00:09:50,389 --> 00:09:49,200

window so what we're doing is training

288

00:09:53,350 --> 00:09:50,399

our numbers down

289

00:09:56,550 --> 00:09:53,360

so on day two we have a 40 chance of ksc

290

00:09:59,590 --> 00:09:58,550

for the abort landing sites in the u.s

291

00:10:01,190 --> 00:09:59,600

space flight meteorology group is

292

00:10:02,949 --> 00:10:01,200

forecasting great weather at both

293

00:10:04,949 --> 00:10:02,959

edwards and northrop's

294

00:10:06,870 --> 00:10:04,959

northrop field with the and then at the

295

00:10:08,150 --> 00:10:06,880

tile sites again space light meteorology

296

00:10:09,670 --> 00:10:08,160

group is saying the weather looks pretty

297

00:10:11,590 --> 00:10:09,680

good there overall

298

00:10:14,790 --> 00:10:11,600

with no violations

299

00:10:16,470 --> 00:10:14,800

for the 24 hour delay

300

00:10:17,829 --> 00:10:16,480

if we do happen to delay 48 hours

301
00:10:20,550 --> 00:10:17,839
weather improves quite a bit here

302
00:10:22,310 --> 00:10:20,560
because we get a lot drier and with that

303
00:10:23,990 --> 00:10:22,320
launch time moving earlier also the sea

304
00:10:26,150 --> 00:10:24,000
breeze just really won't quite be

305
00:10:28,069 --> 00:10:26,160
getting as much development and so with

306
00:10:29,990 --> 00:10:28,079
that we've decreased the number to a 30

307
00:10:32,949 --> 00:10:30,000
percent chance of ksc weather

308
00:10:34,550 --> 00:10:32,959
prohibiting launch

309
00:10:35,990 --> 00:10:34,560
again the abort landing sites in the u.s

310
00:10:37,829 --> 00:10:36,000
look great on

311
00:10:39,590 --> 00:10:37,839
for the 48 hour delay

312
00:10:41,670 --> 00:10:39,600
and the tower sites just one violation

313
00:10:43,110 --> 00:10:41,680

of zaragoza forecast by space light

314

00:10:45,190 --> 00:10:43,120

meteorology group just a chance for

315

00:10:47,030 --> 00:10:45,200

thunderstorms within 20 nautical miles

316

00:10:48,710 --> 00:10:47,040

but as you see marone and estrus look

317

00:10:50,230 --> 00:10:48,720

great

318

00:10:51,750 --> 00:10:50,240

so overall our primary concern for

319

00:10:53,350 --> 00:10:51,760

launch will be showers and thunderstorms

320

00:10:55,590 --> 00:10:53,360

developing along the sea breeze as it

321

00:10:57,990 --> 00:10:55,600

forms on friday and with that we have a

322

00:10:59,110 --> 00:10:58,000

60 chance of ksc weather prohibiting

323

00:11:01,430 --> 00:10:59,120

launch

324

00:11:02,790 --> 00:11:01,440

kendra thank you

325

00:11:04,550 --> 00:11:02,800

when the microphone comes your way

326

00:11:06,069 --> 00:11:04,560

please state your name affiliation and

327

00:11:07,430 --> 00:11:06,079

to whom you're addressing your question

328

00:11:08,310 --> 00:11:07,440

uh let's start over here with marcia

329

00:11:10,230 --> 00:11:08,320

please

330

00:11:11,430 --> 00:11:10,240

marcia dennis associated press for kathy

331

00:11:13,030 --> 00:11:11,440

what time do you expect all this

332

00:11:15,030 --> 00:11:13,040

terrible weather to start forming on

333

00:11:17,030 --> 00:11:15,040

friday i think it'll be at the end you

334

00:11:18,870 --> 00:11:17,040

know near the end of the countdown um

335

00:11:19,990 --> 00:11:18,880

once we get to around that 11am time

336

00:11:22,310 --> 00:11:20,000

period i think we're going to start

337

00:11:24,790 --> 00:11:22,320

seeing cumulus clouds developing

338

00:11:26,949 --> 00:11:24,800

um pretty much after 11 a.m

339

00:11:28,389 --> 00:11:26,959

earlier in the morning it should be okay

340

00:11:30,230 --> 00:11:28,399

it should be right we are going to be

341

00:11:32,230 --> 00:11:30,240

watching the residual effects of that

342

00:11:33,910 --> 00:11:32,240

tropical wave at some point all that's

343

00:11:35,910 --> 00:11:33,920

going to kind of decrease as that wave

344

00:11:37,829 --> 00:11:35,920

moves off to the west and so it looks

345

00:11:39,590 --> 00:11:37,839

good overall in the morning

346

00:11:42,230 --> 00:11:39,600

but again it's that sea breeze that

347

00:11:44,470 --> 00:11:42,240

we're mainly concerned about and for joe

348

00:11:46,389 --> 00:11:44,480

i know that the big payload briefing is

349

00:11:49,110 --> 00:11:46,399

later in the week but we keep hearing

350

00:11:51,190 --> 00:11:49,120

how many pounds of items are need to be

351
00:11:53,430 --> 00:11:51,200
transferred but could you say how many

352
00:11:54,710 --> 00:11:53,440
individual items that each crew member

353
00:11:56,870 --> 00:11:54,720
is going to have to haul across the

354
00:11:58,790 --> 00:11:56,880
threshold um or at least give an

355
00:12:00,230 --> 00:11:58,800
estimate of the numbers

356
00:12:02,470 --> 00:12:00,240
yeah um

357
00:12:05,750 --> 00:12:02,480
storage wise which is

358
00:12:06,790 --> 00:12:05,760
you know iss supplies and personal items

359
00:12:08,629 --> 00:12:06,800
and

360
00:12:13,670 --> 00:12:08,639
spare parts for experiments things like

361
00:12:15,910 --> 00:12:13,680
that is a is approximately 8 200 pounds

362
00:12:17,509 --> 00:12:15,920
okay now if you take the bags that are

363
00:12:19,750 --> 00:12:17,519

associated with that

364

00:12:21,030 --> 00:12:19,760

and the foam that we use for our accent

365

00:12:24,550 --> 00:12:21,040

vibration

366

00:12:26,069 --> 00:12:24,560

it's almost 9 500 pounds so depends

367

00:12:27,269 --> 00:12:26,079

which number you want

368

00:12:31,190 --> 00:12:27,279

if it's just

369

00:12:32,790 --> 00:12:31,200

the volumize how much cargo it's

370

00:12:35,750 --> 00:12:32,800

it's 8 200

371

00:12:37,990 --> 00:12:35,760

the actual amount that's going between

372

00:12:39,509 --> 00:12:38,000

the modules almost 9 500 because they

373

00:12:42,550 --> 00:12:39,519

they come in bags

374

00:12:46,310 --> 00:12:44,790

oh my lord

375

00:12:48,550 --> 00:12:46,320

that's what i'm saying yeah there's

376

00:12:51,030 --> 00:12:48,560

there's um

377

00:12:53,190 --> 00:12:51,040

let's see i have a 10 page map

378

00:12:56,949 --> 00:12:53,200

and each page probably has

379

00:12:58,150 --> 00:12:56,959

a dozen items on it so there's hundreds

380

00:13:00,230 --> 00:12:58,160

of items

381

00:13:01,910 --> 00:13:00,240

that are going to go into uh and into

382

00:13:03,030 --> 00:13:01,920

the iss hundreds

383

00:13:04,949 --> 00:13:03,040

yeah i'll get them i'll have a more

384

00:13:07,190 --> 00:13:04,959

exact number for you on friday but it's

385

00:13:09,269 --> 00:13:07,200

it's a lot we you know we're not the

386

00:13:10,949 --> 00:13:09,279

heaviest but volume wise we're the most

387

00:13:13,430 --> 00:13:10,959

we've never carried this

388

00:13:14,790 --> 00:13:13,440

this amount of payload up volume wise

389

00:13:16,870 --> 00:13:14,800

and that's why we're asked to modify the

390

00:13:19,110 --> 00:13:16,880

racks that increase the carrying

391

00:13:22,230 --> 00:13:19,120

capability almost a couple hundred

392

00:13:23,509 --> 00:13:22,240

pounds so we could add extra volume

393

00:13:26,629 --> 00:13:23,519

to the racks

394

00:13:28,710 --> 00:13:26,639

so a lot of work but we made it

395

00:13:32,629 --> 00:13:28,720

james

396

00:13:34,710 --> 00:13:32,639

uh jeremy the teams reporting the fire

397

00:13:35,750 --> 00:13:34,720

firing room this afternoon

398

00:13:38,150 --> 00:13:35,760

doing so

399

00:13:39,269 --> 00:13:38,160

eagerly or reluctantly or how would you

400

00:13:40,790 --> 00:13:39,279

describe kind of what you think is going

401
00:13:44,389 --> 00:13:40,800
to be the

402
00:13:46,550 --> 00:13:44,399
emotional feeling or mood of folks

403
00:13:49,430 --> 00:13:46,560
and starting the countdown well i would

404
00:13:51,590 --> 00:13:49,440
say the the team

405
00:13:53,829 --> 00:13:51,600
the team gets into the mode of this is

406
00:13:56,310 --> 00:13:53,839
launch countdown and that's really the

407
00:13:59,269 --> 00:13:56,320
focus that everybody has and

408
00:14:01,189 --> 00:13:59,279
and so once we all get into that mode

409
00:14:03,990 --> 00:14:01,199
that's that's the work we're doing we

410
00:14:06,230 --> 00:14:04,000
understand it we do it very well and and

411
00:14:07,350 --> 00:14:06,240
that's what everyone focuses on

412
00:14:09,269 --> 00:14:07,360
i think that

413
00:14:11,670 --> 00:14:09,279

the team in general is really focusing

414

00:14:14,310 --> 00:14:11,680

on that and and the rest of the emotion

415

00:14:15,990 --> 00:14:14,320

that really comes with the end of the

416

00:14:18,389 --> 00:14:16,000

space shuttle program i think will

417

00:14:20,629 --> 00:14:18,399

really kind of roll in as

418

00:14:21,990 --> 00:14:20,639

as launch is completed and and we get

419

00:14:23,670 --> 00:14:22,000

past that

420

00:14:25,670 --> 00:14:23,680

i personally am very much looking

421

00:14:27,829 --> 00:14:25,680

forward to get getting onto console

422

00:14:29,670 --> 00:14:27,839

that's a really cool job it's a really

423

00:14:31,670 --> 00:14:29,680

great time for us to go do that and to

424

00:14:34,310 --> 00:14:31,680

get it do it one more time is a is a

425

00:14:38,629 --> 00:14:36,550

and i wondered if you could characterize

426

00:14:40,629 --> 00:14:38,639

the

427

00:14:43,189 --> 00:14:40,639

importance uh hopes you have to to get

428

00:14:45,269 --> 00:14:43,199

off on on your first attempt on on

429

00:14:47,430 --> 00:14:45,279

friday uh to to preserve that plus one

430

00:14:49,110 --> 00:14:47,440

option um

431

00:14:50,470 --> 00:14:49,120

how much of a bonus would that be or i

432

00:14:52,389 --> 00:14:50,480

assume it's not something where

433

00:14:53,590 --> 00:14:52,399

obviously uh you're not you wouldn't

434

00:14:55,350 --> 00:14:53,600

postpone just for that reason or

435

00:14:57,189 --> 00:14:55,360

anything right but um just

436

00:14:58,870 --> 00:14:57,199

you know how much uh how how helpful

437

00:15:00,389 --> 00:14:58,880

would it be to be able to get off that

438

00:15:01,910 --> 00:15:00,399

that first day or disappointing if you

439

00:15:04,069 --> 00:15:01,920

couldn't right

440

00:15:08,150 --> 00:15:04,079

i know that um it is a goal to try and

441

00:15:09,509 --> 00:15:08,160

get that um one extra day that 13th day

442

00:15:11,590 --> 00:15:09,519

but we really have to look at you know

443

00:15:13,829 --> 00:15:11,600

the day of launch parameters that that

444

00:15:15,509 --> 00:15:13,839

are presented to us on launch day and

445

00:15:17,269 --> 00:15:15,519

and we have to do the smart thing and

446

00:15:18,870 --> 00:15:17,279

the safe thing and uh

447

00:15:21,350 --> 00:15:18,880

you know we'll do everything that we can

448

00:15:23,670 --> 00:15:21,360

to launch on friday but if if things

449

00:15:26,150 --> 00:15:23,680

don't work out so that we can do that

450

00:15:29,110 --> 00:15:26,160

we've got plenty of options to to look

451
00:15:30,790 --> 00:15:29,120
at saturday and sunday and and then we

452
00:15:33,509 --> 00:15:30,800
do have some constraints that roll into

453
00:15:34,949 --> 00:15:33,519
the the range schedule after that but

454
00:15:36,230 --> 00:15:34,959
you know

455
00:15:38,470 --> 00:15:36,240
i think that our focus is to get

456
00:15:40,389 --> 00:15:38,480
launched safely and successfully and if

457
00:15:41,910 --> 00:15:40,399
that is on friday that's great but if we

458
00:15:44,550 --> 00:15:41,920
need to delay until saturday or sunday

459
00:15:46,150 --> 00:15:44,560
that's fine too

460
00:15:48,230 --> 00:15:46,160
bill harwich cbs news with two quick

461
00:15:49,590 --> 00:15:48,240
ones for jeremy one i know mike always

462
00:15:50,710 --> 00:15:49,600
checks with the authorities about crowd

463
00:15:52,150 --> 00:15:50,720

estimates have you heard an updated

464

00:15:53,990 --> 00:15:52,160

estimate of what folks are expecting on

465

00:15:54,949 --> 00:15:54,000

friday in the in your office and

466

00:15:56,629 --> 00:15:54,959

secondly

467

00:15:58,629 --> 00:15:56,639

is there any update to your strategy

468

00:16:00,710 --> 00:15:58,639

about you know if you get into a weather

469

00:16:03,189 --> 00:16:00,720

problem and late in the count there's a

470

00:16:04,870 --> 00:16:03,199

scrub you know saturday versus sunday

471

00:16:07,350 --> 00:16:04,880

just based on the crowd

472

00:16:09,389 --> 00:16:07,360

yeah our crowd numbers are are really

473

00:16:12,629 --> 00:16:09,399

back up to where they were for

474

00:16:16,710 --> 00:16:12,639

sts-133 where or and the first attempt

475

00:16:18,310 --> 00:16:16,720

for 134 um in the 500 to 750 000 that's

476

00:16:19,670 --> 00:16:18,320

really the kind of the prediction that

477

00:16:22,790 --> 00:16:19,680

we're working to

478

00:16:24,310 --> 00:16:22,800

so a lot you know friday morning

479

00:16:26,230 --> 00:16:24,320

kids are out of school it's a great

480

00:16:27,829 --> 00:16:26,240

opportunity for folks to come watch the

481

00:16:29,509 --> 00:16:27,839

last launch

482

00:16:31,189 --> 00:16:29,519

so with that we we really are working

483

00:16:34,150 --> 00:16:31,199

into the same kind of rules that we were

484

00:16:36,069 --> 00:16:34,160

previously that I minus four uh time

485

00:16:38,310 --> 00:16:36,079

frame launch minus four time frame is

486

00:16:40,710 --> 00:16:38,320

our decision point

487

00:16:43,670 --> 00:16:40,720

again it really is all dependent on what

488

00:16:45,590 --> 00:16:43,680

we see that day and the types of

489

00:16:47,990 --> 00:16:45,600

issues that come up how the weather is

490

00:16:49,590 --> 00:16:48,000

developing and uh and and again we'll

491

00:16:51,749 --> 00:16:49,600

talk with all the right folks and make

492

00:16:55,189 --> 00:16:51,759

that decision on launch day

493

00:17:01,110 --> 00:16:58,069

dan billow from channel 2 for kathy

494

00:17:04,549 --> 00:17:01,120

would you put yourself in the shoes of a

495

00:17:06,949 --> 00:17:04,559

spectator and even if you wind up with

496

00:17:07,909 --> 00:17:06,959

acceptable launch conditions friday

497

00:17:08,870 --> 00:17:07,919

morning

498

00:17:10,390 --> 00:17:08,880

um

499

00:17:11,990 --> 00:17:10,400

what is the chance that there will be a

500

00:17:13,909 --> 00:17:12,000

lot of cloud cover around central

501
00:17:17,590 --> 00:17:13,919
florida with all of the moisture in the

502
00:17:19,829 --> 00:17:17,600
air for if you're watching from us one

503
00:17:21,829 --> 00:17:19,839
i would say if you're trying to laun to

504
00:17:23,510 --> 00:17:21,839
watch from say orlando it'd probably be

505
00:17:24,949 --> 00:17:23,520
tough or somewhere further off to the

506
00:17:26,470 --> 00:17:24,959
west would be a little bit harder to see

507
00:17:27,990 --> 00:17:26,480
because the sea breeze would be

508
00:17:29,430 --> 00:17:28,000
developing and you'd have some clouds

509
00:17:31,190 --> 00:17:29,440
between you and the launch if you're

510
00:17:33,590 --> 00:17:31,200
right here along the coast it will

511
00:17:35,510 --> 00:17:33,600
depend on where that sea breeze focus

512
00:17:36,230 --> 00:17:35,520
sea breeze is focused but i do think

513
00:17:37,990 --> 00:17:36,240

that

514

00:17:39,909 --> 00:17:38,000

eventually the coast will clear out so

515

00:17:41,350 --> 00:17:39,919

the question will be how quickly will

516

00:17:43,510 --> 00:17:41,360

that clear out when it comes to the

517

00:17:44,789 --> 00:17:43,520

launch itself if we are green for launch

518

00:17:46,150 --> 00:17:44,799

it's likely that you'll be able to see

519

00:17:48,150 --> 00:17:46,160

that launch if you're here along the

520

00:17:49,909 --> 00:17:48,160

coast but if you're off to the west it's

521

00:17:52,150 --> 00:17:49,919

going to be a lot tougher to all the

522

00:17:54,789 --> 00:17:52,160

clouds in the area

523

00:17:57,110 --> 00:17:54,799

so uh you don't necessarily expect a you

524

00:17:59,590 --> 00:17:57,120

know kind of an overcast type of a lot

525

00:18:01,430 --> 00:17:59,600

of cloud cover right in this vicinity

526

00:18:03,510 --> 00:18:01,440

the only overcast that we're thinking is

527

00:18:05,510 --> 00:18:03,520

maybe right around that high cloud area

528

00:18:08,390 --> 00:18:05,520

the 25 000 foot area so you still would

529

00:18:09,190 --> 00:18:08,400

see a decent amount of the launch um but

530

00:18:10,630 --> 00:18:09,200

um

531

00:18:11,909 --> 00:18:10,640

again if you're inland then it you

532

00:18:13,029 --> 00:18:11,919

wouldn't but right here along the coast

533

00:18:15,990 --> 00:18:13,039

it wouldn't be like the last launch we

534

00:18:17,510 --> 00:18:16,000

had that strata cumulus cloud solid deck

535

00:18:18,870 --> 00:18:17,520

in the low levels it's not like that

536

00:18:21,029 --> 00:18:18,880

it's more of the cumulus clouds

537

00:18:23,029 --> 00:18:21,039

summertime bubbly tropical type weather

538

00:18:25,190 --> 00:18:23,039

that we're looking for

539

00:18:27,190 --> 00:18:25,200

okay ken

540

00:18:28,950 --> 00:18:27,200

hi ken kramer for space flight magazine

541

00:18:31,430 --> 00:18:28,960

uh for jeremy i'm just wondering about

542

00:18:33,750 --> 00:18:31,440

this fuel valve that you you you you

543

00:18:35,510 --> 00:18:33,760

switched out and is there any update on

544

00:18:36,950 --> 00:18:35,520

on a contamination you found this was

545

00:18:39,029 --> 00:18:36,960

this little particle five to eight

546

00:18:41,190 --> 00:18:39,039

microns have you found anything else the

547

00:18:42,710 --> 00:18:41,200

other thing i'm wondering is um i guess

548

00:18:44,470 --> 00:18:42,720

you tested this then at ambient

549

00:18:46,630 --> 00:18:44,480

temperature do you gain any confidence

550

00:18:47,909 --> 00:18:46,640

if you could test this at cryogenic

551
00:18:50,230 --> 00:18:47,919
temperatures

552
00:18:52,470 --> 00:18:50,240
thank you well as far as camp uh

553
00:18:54,470 --> 00:18:52,480
contamination goes uh i don't have any

554
00:18:56,310 --> 00:18:54,480
further update on that we can we can get

555
00:18:57,750 --> 00:18:56,320
that information and work that through

556
00:18:59,669 --> 00:18:57,760
kandra

557
00:19:02,150 --> 00:18:59,679
as well as uh you know i'm not a

558
00:19:03,750 --> 00:19:02,160
technical expert on the valve so

559
00:19:07,029 --> 00:19:03,760
the testing

560
00:19:09,029 --> 00:19:07,039
ambient temperatures

561
00:19:10,390 --> 00:19:09,039
as we saw with the tanking test it was a

562
00:19:11,350 --> 00:19:10,400
great opportunity

563
00:19:13,830 --> 00:19:11,360

uh

564

00:19:16,150 --> 00:19:13,840

to to see what we had as far as our

565

00:19:18,150 --> 00:19:16,160

vehicle configured configuration goes

566

00:19:21,029 --> 00:19:18,160

and you know we did pick up and and

567

00:19:22,789 --> 00:19:21,039

identify the problem so you know but

568

00:19:24,950 --> 00:19:22,799

we've gone through and done all the work

569

00:19:27,110 --> 00:19:24,960

we've you know changed out the valve

570

00:19:29,590 --> 00:19:27,120

done all the retest work that we needed

571

00:19:31,590 --> 00:19:29,600

to the valve's working great

572

00:19:33,110 --> 00:19:31,600

and we don't have any expectation that

573

00:19:35,909 --> 00:19:33,120

there's going to be any issue when we go

574

00:19:37,669 --> 00:19:35,919

load on on friday so i think we're in

575

00:19:39,110 --> 00:19:37,679

really good shape as far as the main

576
00:19:40,549 --> 00:19:39,120
field valve goes

577
00:19:43,270 --> 00:19:40,559
okay robert

578
00:19:45,830 --> 00:19:43,280
hi robert perlman with collectspace.com

579
00:19:48,150 --> 00:19:45,840
uh with a question for jeremy um given

580
00:19:50,070 --> 00:19:48,160
that this is the last shuttle countdown

581
00:19:50,870 --> 00:19:50,080
do you expect any additional ceremony at

582
00:19:52,310 --> 00:19:50,880
this

583
00:19:53,830 --> 00:19:52,320
at the start of the countdown or

584
00:19:55,510 --> 00:19:53,840
throughout the

585
00:19:57,110 --> 00:19:55,520
uh as the count progresses any

586
00:19:58,230 --> 00:19:57,120
additional um

587
00:19:59,990 --> 00:19:58,240
uh

588
00:20:02,870 --> 00:20:00,000

ti any will you take any additional time

589

00:20:05,110 --> 00:20:02,880

to mark this milestone

590

00:20:06,630 --> 00:20:05,120

well the great thing about uh putting

591

00:20:09,110 --> 00:20:06,640

together a launch countdown schedule is

592

00:20:10,549 --> 00:20:09,120

you account for every single second

593

00:20:13,190 --> 00:20:10,559

and every job that you need to

594

00:20:14,149 --> 00:20:13,200

accomplish to get to launch countdown

595

00:20:15,510 --> 00:20:14,159

those

596

00:20:17,190 --> 00:20:15,520

all of that work

597

00:20:19,270 --> 00:20:17,200

takes up all the time that we account

598

00:20:21,190 --> 00:20:19,280

for in launch countdown so we're going

599

00:20:23,190 --> 00:20:21,200

to treat this launch exactly the way we

600

00:20:25,830 --> 00:20:23,200

treat have treated every launch up to

601
00:20:29,350 --> 00:20:25,840
this point and and the celebrations will

602
00:20:30,789 --> 00:20:29,360
will take uh take place after launch

603
00:20:32,710 --> 00:20:30,799
but i'm sure

604
00:20:34,549 --> 00:20:32,720
a lot of folks will be marking those

605
00:20:37,669 --> 00:20:34,559
milestones in their head as

606
00:20:39,909 --> 00:20:37,679
as very exciting times but we don't have

607
00:20:43,190 --> 00:20:39,919
any specifically planned milestones

608
00:20:44,870 --> 00:20:43,200
called out during the launch countdown

609
00:20:48,950 --> 00:20:44,880
kevin

610
00:20:50,630 --> 00:20:48,960
joe since it's the last launch and you

611
00:20:52,789 --> 00:20:50,640
have a full payload have you had to turn

612
00:20:54,710 --> 00:20:52,799
down a number of requests for people

613
00:20:55,909 --> 00:20:54,720

wanting items to fly on the last space

614

00:20:57,669 --> 00:20:55,919

shuttle can you give us a sense of

615

00:21:01,430 --> 00:20:57,679

anything that you've had to turn away

616

00:21:03,590 --> 00:21:01,440

yeah that's a good question um

617

00:21:07,190 --> 00:21:03,600

there were items that

618

00:21:07,909 --> 00:21:07,200

just couldn't make our our milestones

619

00:21:11,990 --> 00:21:07,919

to

620

00:21:13,350 --> 00:21:12,000

certain time have the crew come do a

621

00:21:15,190 --> 00:21:13,360

bench review

622

00:21:16,950 --> 00:21:15,200

turn it over to uh

623

00:21:18,789 --> 00:21:16,960

to our team and pack it there there were

624

00:21:20,310 --> 00:21:18,799

a few items but

625

00:21:22,149 --> 00:21:20,320

there weren't as many as the previous

626
00:21:24,630 --> 00:21:22,159
missions

627
00:21:26,310 --> 00:21:24,640
by keeping the hatch open as late as

628
00:21:28,950 --> 00:21:26,320
possible going to the pad as late as

629
00:21:32,070 --> 00:21:30,310
increasing our weight and getting the

630
00:21:35,270 --> 00:21:32,080
word out a little bit earlier for the

631
00:21:36,950 --> 00:21:35,280
most part we did okay it wasn't too bad

632
00:21:39,029 --> 00:21:36,960
and by doing that it also allowed to

633
00:21:40,630 --> 00:21:39,039
pull back some of our mid-deck items

634
00:21:41,669 --> 00:21:40,640
into the mplm which opened up on

635
00:21:44,470 --> 00:21:41,679
mid-deck

636
00:21:46,390 --> 00:21:44,480
so overall it was not as bad as as other

637
00:21:48,070 --> 00:21:46,400
missions but there were a few items but

638
00:21:50,230 --> 00:21:48,080

nothing um

639

00:21:52,070 --> 00:21:50,240

nothing i can just think of so it wasn't

640

00:21:53,669 --> 00:21:52,080

that bad

641

00:21:59,029 --> 00:21:53,679

todd

642

00:22:01,590 --> 00:21:59,039

wanted to follow first for joe

643

00:22:03,430 --> 00:22:01,600

i'm wondering if you can compare the

644

00:22:05,669 --> 00:22:03,440

amount of mass or volume you're taking

645

00:22:08,470 --> 00:22:05,679

up on this mission with other cargo

646

00:22:12,630 --> 00:22:08,480

carriers that fly to the station the

647

00:22:15,510 --> 00:22:12,640

progress the atv the htv

648

00:22:18,789 --> 00:22:15,520

i remember back on

649

00:22:19,830 --> 00:22:18,799

ulf 2 we flew up lots of racks we flew

650

00:22:21,669 --> 00:22:19,840

up

651
00:22:22,950 --> 00:22:21,679
lots of eclipse racks if you guys

652
00:22:25,270 --> 00:22:22,960
remember that

653
00:22:27,029 --> 00:22:25,280
and then 17a and so on

654
00:22:29,990 --> 00:22:27,039
we flew up the uh if you remember we

655
00:22:33,190 --> 00:22:30,000
flew up the uh waste hygiene rack

656
00:22:36,549 --> 00:22:33,200
we flew up crew quarters

657
00:22:38,630 --> 00:22:36,559
we flew up melfi science racks

658
00:22:40,870 --> 00:22:38,640
so um

659
00:22:42,390 --> 00:22:40,880
the module itself has a fantastic

660
00:22:44,710 --> 00:22:42,400
capability

661
00:22:46,870 --> 00:22:44,720
to bring huge items

662
00:22:50,390 --> 00:22:46,880
and as you saw from

663
00:22:53,270 --> 00:22:50,400

ulf2 and 17a and 19a

664

00:22:55,590 --> 00:22:53,280

and here we are on on 135

665

00:22:58,070 --> 00:22:55,600

we got those big items on station and

666

00:22:59,110 --> 00:22:58,080

that was that's a good thing

667

00:23:02,630 --> 00:22:59,120

the

668

00:23:06,310 --> 00:23:04,390

modules if i can if i can use that word

669

00:23:07,750 --> 00:23:06,320

or other vehicles i'll be flying the

670

00:23:10,390 --> 00:23:07,760

station

671

00:23:12,310 --> 00:23:10,400

their objective again will be to keep

672

00:23:14,310 --> 00:23:12,320

resupplying

673

00:23:17,990 --> 00:23:14,320

the iss and bringing up certain

674

00:23:20,230 --> 00:23:18,000

experiments and stowage items

675

00:23:23,270 --> 00:23:20,240

nothing is going to have the um

676

00:23:26,549 --> 00:23:23,280

the volume wise like the mplm does

677

00:23:29,029 --> 00:23:26,559

you can't bring up 16 science racks or

678

00:23:30,630 --> 00:23:29,039

16 fully loaded racks on other vehicles

679

00:23:31,590 --> 00:23:30,640

but you do have the capability to bring

680

00:23:35,510 --> 00:23:31,600

up

681

00:23:37,909 --> 00:23:35,520

so you will always have the capability

682

00:23:40,149 --> 00:23:37,919

to resupply station

683

00:23:42,310 --> 00:23:40,159

you just don't have the volume wise like

684

00:23:45,590 --> 00:23:42,320

we did on the mplm to bring up we'll say

685

00:23:47,510 --> 00:23:45,600

16 sign tracks at one time

686

00:23:48,310 --> 00:23:47,520

and for jeremy

687

00:23:51,190 --> 00:23:48,320

if

688

00:23:52,149 --> 00:23:51,200

for whether other reasons you do not get

689

00:23:54,390 --> 00:23:52,159

off

690

00:23:56,310 --> 00:23:54,400

by sunday i think you have a range

691

00:23:57,190 --> 00:23:56,320

conflict with the delta

692

00:24:00,070 --> 00:23:57,200

in

693

00:24:03,669 --> 00:24:00,080

that event would you stand down to top

694

00:24:05,590 --> 00:24:03,679

off prsd and if so or if not when would

695

00:24:07,590 --> 00:24:05,600

be the next uh shuttle launch

696

00:24:09,590 --> 00:24:07,600

opportunity after that

697

00:24:11,190 --> 00:24:09,600

yeah if we got to that condition

698

00:24:12,710 --> 00:24:11,200

essentially we would

699

00:24:14,870 --> 00:24:12,720

we'll take our best two out of three

700

00:24:17,029 --> 00:24:14,880

days for the 8th through the 10th

701
00:24:19,510 --> 00:24:17,039
we would stand stand down

702
00:24:20,950 --> 00:24:19,520
to support the delta launch

703
00:24:22,710 --> 00:24:20,960
and assuming that they launched on the

704
00:24:23,909 --> 00:24:22,720
14th and didn't have a delay of their

705
00:24:26,789 --> 00:24:23,919
own

706
00:24:27,909 --> 00:24:26,799
we would have opportunities uh from the

707
00:24:30,149 --> 00:24:27,919
16th

708
00:24:33,430 --> 00:24:30,159
through the 31st and then we would get

709
00:24:35,029 --> 00:24:33,440
into a beta angle cut out

710
00:24:36,789 --> 00:24:35,039
once we were through the beta angle cut

711
00:24:40,470 --> 00:24:36,799
out on the 15th we'd then also be able

712
00:24:43,350 --> 00:24:40,480
to pick up on the august 16th so

713
00:24:46,310 --> 00:24:43,360

the earliest after uh the

714

00:24:48,870 --> 00:24:46,320

delta cut out would be

715

00:24:50,070 --> 00:24:48,880

would be on the 16th

716

00:24:52,070 --> 00:24:50,080

and what we would do is we would

717

00:24:54,230 --> 00:24:52,080

basically back all the way out of launch

718

00:24:56,549 --> 00:24:54,240

countdown and then get back into launch

719

00:24:58,470 --> 00:24:56,559

countdown so we'd kind of reset start

720

00:25:01,350 --> 00:24:58,480

over and that would allow us to get

721

00:25:03,190 --> 00:25:01,360

a full load of prsd and have the full

722

00:25:06,310 --> 00:25:03,200

capability going into the next

723

00:25:09,110 --> 00:25:06,320

opportunity starting on the 16th

724

00:25:10,310 --> 00:25:09,120

we have time for one final question

725

00:25:12,149 --> 00:25:10,320

um

726

00:25:13,110 --> 00:25:12,159

pete

727

00:25:15,669 --> 00:25:13,120

excuse me

728

00:25:18,870 --> 00:25:15,679

pete crow grows on daily for jeremy

729

00:25:21,029 --> 00:25:18,880

um does the failure to um inability to

730

00:25:22,789 --> 00:25:21,039

launch on perhaps day one or two impact

731

00:25:24,870 --> 00:25:22,799

the

732

00:25:26,630 --> 00:25:24,880

ability to fly that extra day

733

00:25:28,070 --> 00:25:26,640

my understanding was that

734

00:25:30,710 --> 00:25:28,080

that decision would be made somewhere

735

00:25:32,230 --> 00:25:30,720

out around day four of five

736

00:25:34,230 --> 00:25:32,240

it does um

737

00:25:36,870 --> 00:25:34,240

the the challenges the the longer that

738

00:25:40,149 --> 00:25:36,880

we stay on the ground uh the more on

739

00:25:42,470 --> 00:25:40,159

board cryos we boil off and so we don't

740

00:25:45,669 --> 00:25:42,480

take that capability with us if we

741

00:25:48,390 --> 00:25:45,679

launch later than on friday but again

742

00:25:50,789 --> 00:25:48,400

the all of those calculations and that

743

00:25:53,190 --> 00:25:50,799

data will be evaluated once we're on

744

00:25:55,510 --> 00:25:53,200

orbit and you know the team at jsc will

745

00:25:58,149 --> 00:25:55,520

take a look at what we launch with

746

00:26:00,549 --> 00:25:58,159

the the amount that we have on board and

747

00:26:04,230 --> 00:26:00,559

and determine if they're able to

748

00:26:05,350 --> 00:26:04,240

work out that additional day

749

00:26:07,669 --> 00:26:05,360

that's all the time we have for the

750

00:26:09,110 --> 00:26:07,679

pre-countdown status briefing today as

751

00:26:11,750 --> 00:26:09,120

jeremy mentioned the countdown

752

00:26:13,750 --> 00:26:11,760

officially begins at 1 pm eastern time

753

00:26:16,470 --> 00:26:13,760

that won't be shown live on nasa tv but

754

00:26:18,630 --> 00:26:16,480

please join us at 12 30 p.m for a live

755

00:26:20,750 --> 00:26:18,640

demonstration of the ford osmosis

756

00:26:23,750 --> 00:26:20,760

experiment for more information on the