
Space

1
00:00:06,389 --> 00:00:03,429
good afternoon and welcome to today's

2
00:00:08,549 --> 00:00:06,399
sts-134 post mission management team

3
00:00:10,070 --> 00:00:08,559
briefing we have leroy kane the chairman

4
00:00:11,509 --> 00:00:10,080
of that mission management team with us

5
00:00:13,589 --> 00:00:11,519
today we'll start off with his opening

6
00:00:15,430 --> 00:00:13,599
statements and then go on to questions

7
00:00:17,590 --> 00:00:15,440
from the reporters here in the newsroom

8
00:00:18,550 --> 00:00:17,600
and from reporters on the phone bridge

9
00:00:20,950 --> 00:00:18,560
leroy

10
00:00:23,349 --> 00:00:20,960
okay good afternoon thanks kelly

11
00:00:26,310 --> 00:00:23,359
the um i think you all know that the

12
00:00:28,550 --> 00:00:26,320
space walk went really well and the crew

13
00:00:30,470 --> 00:00:28,560

is the shuttle crew is of course

14
00:00:31,349 --> 00:00:30,480
in their sleep period now

15
00:00:32,709 --> 00:00:31,359
the

16
00:00:34,470 --> 00:00:32,719
mmt

17
00:00:36,790 --> 00:00:34,480
i don't have a lot to tell you about

18
00:00:38,229 --> 00:00:36,800
from the mmt simply because we didn't

19
00:00:39,910 --> 00:00:38,239
have a lot to talk about so i'll just

20
00:00:42,229 --> 00:00:39,920
highlight what uh what we spent most of

21
00:00:44,630 --> 00:00:42,239
our time on which was a status from the

22
00:00:46,869 --> 00:00:44,640
damage assessment team or or as we call

23
00:00:49,029 --> 00:00:46,879
it the dat team

24
00:00:51,430 --> 00:00:49,039
the team came in i think uh you'll

25
00:00:53,590 --> 00:00:51,440
recall that we had one site one damage

26
00:00:54,869 --> 00:00:53,600
site that we we were continuing to

27
00:00:57,510 --> 00:00:54,879
assess

28
00:00:58,389 --> 00:00:57,520
and so they came in and gave us a status

29
00:00:59,910 --> 00:00:58,399
of that

30
00:01:01,910 --> 00:00:59,920
work and it was a very thorough

31
00:01:04,710 --> 00:01:01,920
discussion in terms of

32
00:01:06,390 --> 00:01:04,720
the uh the analysis that they have done

33
00:01:07,830 --> 00:01:06,400
and and what they think they have yet to

34
00:01:09,030 --> 00:01:07,840
do before they would be able to clear

35
00:01:11,510 --> 00:01:09,040
the site

36
00:01:13,990 --> 00:01:11,520
and ultimately we determined that we're

37
00:01:16,789 --> 00:01:14,000
going to go do a focus inspection to get

38
00:01:18,950 --> 00:01:16,799

some more data on this particular site

39
00:01:20,550 --> 00:01:18,960
and i have a couple of graphics to show

40
00:01:23,990 --> 00:01:20,560
you just to remind you of what we're

41
00:01:26,550 --> 00:01:24,000
talking about the first graphic

42
00:01:28,310 --> 00:01:26,560
if we can put the first graphic up

43
00:01:30,789 --> 00:01:28,320
this is again the overview of the bottom

44
00:01:33,109 --> 00:01:30,799
of the orbiter and and uh seven sites

45
00:01:35,270 --> 00:01:33,119
that we were looking at initially the

46
00:01:37,670 --> 00:01:35,280
only one that remains a yellow box is

47
00:01:39,190 --> 00:01:37,680
the one that's labeled 2-0-1 that's the

48
00:01:41,590 --> 00:01:39,200
one that's just behind the starboard

49
00:01:45,590 --> 00:01:41,600
main landing gear door and ahead of the

50
00:01:49,510 --> 00:01:47,429
the next chart

51
00:01:51,670 --> 00:01:49,520
shows you

52
00:01:53,910 --> 00:01:51,680
tries to depict

53
00:01:57,030 --> 00:01:53,920
structurally what is what is underneath

54
00:01:58,870 --> 00:01:57,040
that site in in that general vicinity

55
00:02:00,389 --> 00:01:58,880
and so to orient you

56
00:02:01,990 --> 00:02:00,399
you can see the arrows on the bottom

57
00:02:04,550 --> 00:02:02,000
left corner of the picture shows you

58
00:02:07,350 --> 00:02:04,560
that uh forward

59
00:02:08,389 --> 00:02:07,360
and inboard directions

60
00:02:10,070 --> 00:02:08,399
so the

61
00:02:11,670 --> 00:02:10,080
toward the back of the picture you see

62
00:02:13,430 --> 00:02:11,680
an arrow pointed toward what's called

63
00:02:14,630 --> 00:02:13,440

the mid body side wall that would be the

64
00:02:16,229 --> 00:02:14,640
side of the

65
00:02:18,790 --> 00:02:16,239
of the orbiter where the wing box

66
00:02:20,470 --> 00:02:18,800
connects to the side of the orbiter

67
00:02:23,990 --> 00:02:20,480
the um

68
00:02:24,670 --> 00:02:24,000
the spars going across the the picture

69
00:02:29,030 --> 00:02:24,680
the

70
00:02:30,710 --> 00:02:29,040
sts-118 damage uh tile uh site is

71
00:02:33,030 --> 00:02:30,720
actually

72
00:02:34,710 --> 00:02:33,040
not in the actual location it's depicted

73
00:02:39,110 --> 00:02:34,720
there simply to show you where it is

74
00:02:40,869 --> 00:02:39,120
relative to the sts-134 damage location

75
00:02:43,030 --> 00:02:40,879
in in terms of

76
00:02:47,430 --> 00:02:43,040
inboard outboard

77
00:02:49,270 --> 00:02:47,440
so if we were going to put the 118

78
00:02:51,350 --> 00:02:49,280
location on here in in the correct

79
00:02:53,509 --> 00:02:51,360
location on this picture it would be

80
00:02:55,190 --> 00:02:53,519
off to the lower left

81
00:02:57,910 --> 00:02:55,200
part of the picture so it would be the

82
00:03:00,470 --> 00:02:57,920
mirror image

83
00:03:02,630 --> 00:03:00,480
along the uh along the spar on the very

84
00:03:04,710 --> 00:03:02,640
left hand side of the picture

85
00:03:06,710 --> 00:03:04,720
so as far as inboard outboard is

86
00:03:08,790 --> 00:03:06,720
concerned it's in the correct location

87
00:03:10,309 --> 00:03:08,800
however instead of being

88
00:03:12,630 --> 00:03:10,319

forward

89
00:03:14,070 --> 00:03:12,640
of the damage location on 134 it's that

90
00:03:15,990 --> 00:03:14,080
far aft

91
00:03:17,589 --> 00:03:16,000
of the damaged location on 134 if that

92
00:03:19,110 --> 00:03:17,599
makes any sense

93
00:03:20,949 --> 00:03:19,120
so this is just to give you a relative

94
00:03:22,790 --> 00:03:20,959
idea we talked about the structure

95
00:03:24,550 --> 00:03:22,800
underneath those tiles

96
00:03:26,229 --> 00:03:24,560
and the fact that we're close to the

97
00:03:28,390 --> 00:03:26,239
wing box area and you can kind of get an

98
00:03:30,550 --> 00:03:28,400
idea here how close that is

99
00:03:34,070 --> 00:03:30,560
just to give you some dimensional

100
00:03:35,190 --> 00:03:34,080
perspective here the distance forward to

101
00:03:37,430 --> 00:03:35,200
aft

102
00:03:39,670 --> 00:03:37,440
between the 118 damage site location in

103
00:03:42,789 --> 00:03:39,680
the 134 location

104
00:03:43,910 --> 00:03:42,799
is approximately 14 inches

105
00:03:44,789 --> 00:03:43,920
so

106
00:03:46,710 --> 00:03:44,799
that's

107
00:03:50,390 --> 00:03:46,720
each one you know each one of those

108
00:03:53,910 --> 00:03:50,400
spars in the in this cartoon here are

109
00:03:57,350 --> 00:03:53,920
you know half a foot apart roughly

110
00:04:00,550 --> 00:03:58,949
whether that's actual in terms of the

111
00:04:02,390 --> 00:04:00,560
engineering drawings but this is just to

112
00:04:05,910 --> 00:04:02,400
give you an idea of structurally what's

113
00:04:07,030 --> 00:04:05,920

in this in this general location so

114
00:04:08,789 --> 00:04:07,040
the

115
00:04:10,550 --> 00:04:08,799
next slide

116
00:04:12,309 --> 00:04:10,560
gives you an idea of what we do when we

117
00:04:14,390 --> 00:04:12,319
do the focused inspection

118
00:04:16,390 --> 00:04:14,400
i think most of you are aware of this of

119
00:04:19,990 --> 00:04:16,400
this operation in general but

120
00:04:21,110 --> 00:04:20,000
essentially we pick up the obss

121
00:04:22,310 --> 00:04:21,120
in this case we're going to pick it up

122
00:04:24,390 --> 00:04:22,320
with the station arm and we're going to

123
00:04:25,270 --> 00:04:24,400
attach it to the the shuttle's robotic

124
00:04:27,670 --> 00:04:25,280
arm

125
00:04:29,430 --> 00:04:27,680
and then we'll lower it to the underside

126
00:04:30,950 --> 00:04:29,440
over the wing and to the underside of

127
00:04:33,110 --> 00:04:30,960
the of the vehicle

128
00:04:34,870 --> 00:04:33,120
and then it maintains about a seven foot

129
00:04:36,790 --> 00:04:34,880
distance from the actual surface of the

130
00:04:38,790 --> 00:04:36,800
underside of the vehicle and it'll be

131
00:04:40,950 --> 00:04:38,800
located over the damaged site and then

132
00:04:43,510 --> 00:04:40,960
we'll take several images using the

133
00:04:45,749 --> 00:04:43,520
digital camera as well as taking data

134
00:04:47,110 --> 00:04:45,759
with the laser

135
00:04:51,110 --> 00:04:47,120
so that gives you an idea of that

136
00:04:55,189 --> 00:04:52,950
okay so that's what i want to show you

137
00:04:57,510 --> 00:04:55,199
in terms of graphics and charts

138
00:04:59,590 --> 00:04:57,520

the the plan is that the focus

139
00:05:01,189 --> 00:04:59,600
inspection will start about the end of

140
00:05:03,990 --> 00:05:01,199
the cruise morning tomorrow so they'll

141
00:05:06,710 --> 00:05:04,000
get up tonight around 10 pm local time

142
00:05:08,870 --> 00:05:06,720
and by about 1 30 or so they'll be into

143
00:05:10,950 --> 00:05:08,880
the focus inspection procedures

144
00:05:12,790 --> 00:05:10,960
the pilot will be doing the uh the

145
00:05:15,029 --> 00:05:12,800
shuttle arm operations

146
00:05:17,110 --> 00:05:15,039
and two of the flight engineers

147
00:05:18,550 --> 00:05:17,120
will be doing the the station robotic

148
00:05:19,510 --> 00:05:18,560
arm operations

149
00:05:21,749 --> 00:05:19,520
um

150
00:05:23,510 --> 00:05:21,759
and and we will be doing as i said we'll

151
00:05:25,110 --> 00:05:23,520
be getting some digital camera shots and

152
00:05:27,909 --> 00:05:25,120
we'll be getting some shot some data

153
00:05:29,990 --> 00:05:27,919
with the laser three of the idc

154
00:05:32,150 --> 00:05:30,000
and two with the lcs

155
00:05:33,909 --> 00:05:32,160
it's about a two hour task in total it

156
00:05:36,310 --> 00:05:33,919
it probably is actually not quite two

157
00:05:37,990 --> 00:05:36,320
hours but we blocked it for two hours

158
00:05:39,990 --> 00:05:38,000
to go ahead and get the data that we

159
00:05:41,270 --> 00:05:40,000
want to with this one site

160
00:05:45,510 --> 00:05:41,280
the

161
00:05:47,590 --> 00:05:45,520
focus inspection will be positioned on

162
00:05:49,830 --> 00:05:47,600
the other side of the orbiter

163
00:05:52,310 --> 00:05:49,840

uh slightly away from the orbiter and

164
00:05:54,550 --> 00:05:52,320
with a vantage point looking underneath

165
00:05:56,550 --> 00:05:54,560
and around the the uh

166
00:05:58,469 --> 00:05:56,560
so it'll have a vantage point looking

167
00:06:01,189 --> 00:05:58,479
toward the orbiter but it'll be able to

168
00:06:03,270 --> 00:06:01,199
to uh to provide some camera views for

169
00:06:06,230 --> 00:06:03,280
clearance as we're as we're putting the

170
00:06:08,390 --> 00:06:06,240
boom in the arm over the the edge of the

171
00:06:09,830 --> 00:06:08,400
the payload door and the wing area and

172
00:06:10,870 --> 00:06:09,840
so it just provides us a little bit

173
00:06:13,110 --> 00:06:10,880
better

174
00:06:15,189 --> 00:06:13,120
information as we're doing the uh the

175
00:06:17,029 --> 00:06:15,199
maneuvers of the arm

176
00:06:18,950 --> 00:06:17,039
also the the actual maneuvers are what

177
00:06:19,749 --> 00:06:18,960
we call o-cast maneuvers so they're

178
00:06:21,830 --> 00:06:19,759
really

179
00:06:24,070 --> 00:06:21,840
programmed into the computer

180
00:06:25,830 --> 00:06:24,080
and they're they're done automatically

181
00:06:28,230 --> 00:06:25,840
so there's not there's there's very

182
00:06:29,270 --> 00:06:28,240
little manual flying involved with this

183
00:06:32,550 --> 00:06:29,280
task

184
00:06:34,870 --> 00:06:32,560
as it as the team has it laid out so

185
00:06:36,629 --> 00:06:34,880
that's in a nutshell that's the plan

186
00:06:39,510 --> 00:06:36,639
the um the team felt like we needed to

187
00:06:42,550 --> 00:06:39,520
get a little bit more data to be able to

188
00:06:43,749 --> 00:06:42,560

um get the analysis to the fidelity that

189
00:06:45,350 --> 00:06:43,759
we need to and take out the

190
00:06:47,110 --> 00:06:45,360
conservativism

191
00:06:50,710 --> 00:06:47,120
and and in that sense we'll be able to

192
00:06:52,629 --> 00:06:50,720
get a good sense for what we expect

193
00:06:54,309 --> 00:06:52,639
on on entry

194
00:06:55,270 --> 00:06:54,319
and see how much margin we have in this

195
00:06:56,790 --> 00:06:55,280
area

196
00:06:59,189 --> 00:06:56,800
once we get better fidelity on the

197
00:07:01,430 --> 00:06:59,199
imagery and get the lcs data

198
00:07:03,830 --> 00:07:01,440
so everything else continues to go well

199
00:07:06,790 --> 00:07:03,840
on orbit the team is

200
00:07:08,950 --> 00:07:06,800
is gearing up for the next spacewalk and

201
00:07:11,270 --> 00:07:08,960
in between now and then

202
00:07:12,629 --> 00:07:11,280
we'll of course do focus inspection and

203
00:07:14,950 --> 00:07:12,639
a few other activities that we have in

204
00:07:16,790 --> 00:07:14,960
the cruise timeline for tomorrow

205
00:07:17,510 --> 00:07:16,800
and then following that we will do the

206
00:07:20,629 --> 00:07:17,520
uh

207
00:07:22,309 --> 00:07:20,639
the monday is the after eva 2 on sunday

208
00:07:24,629 --> 00:07:22,319
monday is the

209
00:07:26,950 --> 00:07:24,639
soyuz undock which we talked about

210
00:07:28,550 --> 00:07:26,960
in the uh in the mmt and the immt

211
00:07:31,110 --> 00:07:28,560
yesterday and then

212
00:07:32,870 --> 00:07:31,120
i think you're aware that the immt

213
00:07:35,670 --> 00:07:32,880

gave a go for a doc

214
00:07:37,830 --> 00:07:35,680
this morning and so that's all

215
00:07:39,909 --> 00:07:37,840
that that plan has been uh

216
00:07:40,710 --> 00:07:39,919
been fully reviewed and is ready to go

217
00:07:42,710 --> 00:07:40,720
so

218
00:07:45,350 --> 00:07:42,720
uh all in all things are going very well

219
00:07:46,869 --> 00:07:45,360
and that's pretty much a summary of the

220
00:07:48,469 --> 00:07:46,879
update i have for you today so i'm happy

221
00:07:50,469 --> 00:07:48,479
to take questions

222
00:07:51,830 --> 00:07:50,479
thanks leroy and just for the folks here

223
00:07:53,749 --> 00:07:51,840
in the room we do have a set of these

224
00:07:55,909 --> 00:07:53,759
charts printed out on the counter and

225
00:07:58,230 --> 00:07:55,919
they'll be on the nasa website in the

226
00:07:59,830 --> 00:07:58,240
shuttle section of the nasa portal under

227
00:08:01,350 --> 00:07:59,840
news and media resources for those who

228
00:08:02,550 --> 00:08:01,360
are on the line and we'll start here

229
00:08:04,710 --> 00:08:02,560
with seth

230
00:08:07,909 --> 00:08:04,720
thank you seth bourne sign ap

231
00:08:09,350 --> 00:08:07,919
leroy first have you started contingency

232
00:08:10,710 --> 00:08:09,360
if you find

233
00:08:13,510 --> 00:08:10,720
something you don't like with the

234
00:08:15,270 --> 00:08:13,520
focused inspection for an eva have you

235
00:08:16,469 --> 00:08:15,280
identified who it would be and when it

236
00:08:18,550 --> 00:08:16,479
would be

237
00:08:21,670 --> 00:08:18,560
no we have not okay

238
00:08:25,430 --> 00:08:24,070

look looking at this you've

239
00:08:27,670 --> 00:08:25,440
you said the pilot

240
00:08:29,189 --> 00:08:27,680
it's it is uh

241
00:08:30,869 --> 00:08:29,199
greg johnson's going to do the shuttle

242
00:08:32,949 --> 00:08:30,879
arm but it's really not much of his

243
00:08:33,909 --> 00:08:32,959
operation he it's almost all programmed

244
00:08:36,149 --> 00:08:33,919
in right

245
00:08:37,589 --> 00:08:36,159
well he'll do the program he'll he'll do

246
00:08:39,190 --> 00:08:37,599
the operations in terms of the

247
00:08:42,149 --> 00:08:39,200
procedures that are associated with the

248
00:08:43,990 --> 00:08:42,159
shuttle rms system he'll be responsible

249
00:08:46,790 --> 00:08:44,000
for all of those and the final one is

250
00:08:48,070 --> 00:08:46,800
how many photos overall

251
00:08:50,870 --> 00:08:48,080
you know with the just the camera not

252
00:08:52,310 --> 00:08:50,880
the laser are you looking for um i think

253
00:08:54,150 --> 00:08:52,320
you said it and i may have missed it

254
00:08:56,150 --> 00:08:54,160
three three just three photos looking

255
00:08:57,670 --> 00:08:56,160
for three images with the digital camera

256
00:09:02,389 --> 00:08:57,680
and we're looking for two data takes

257
00:09:04,389 --> 00:09:02,399
with the lcs the laser system thank you

258
00:09:07,670 --> 00:09:04,399
philip

259
00:09:09,350 --> 00:09:07,680
phillips loss with nasaspaceflight.com

260
00:09:10,710 --> 00:09:09,360
i guess first the first the simple

261
00:09:12,550 --> 00:09:10,720
question which is

262
00:09:14,949 --> 00:09:12,560
are is everything else that you reviewed

263
00:09:17,350 --> 00:09:14,959

cleared for entry in terms of a uh

264
00:09:19,269 --> 00:09:17,360
ascent debris standpoint

265
00:09:20,630 --> 00:09:19,279
it is we've cleared everything else we

266
00:09:23,430 --> 00:09:20,640
cleared the other sites i showed you

267
00:09:25,750 --> 00:09:23,440
today again and then uh yesterday

268
00:09:27,269 --> 00:09:25,760
and even before we came here first time

269
00:09:29,509 --> 00:09:27,279
to talk about tile

270
00:09:31,670 --> 00:09:29,519
damage we had cleared the rcc the wing

271
00:09:35,030 --> 00:09:31,680
leading edge so we just have this one

272
00:09:37,910 --> 00:09:35,040
site remaining okay thanks and then um

273
00:09:39,829 --> 00:09:37,920
what what's the plan the execution plan

274
00:09:42,150 --> 00:09:39,839
in terms of reducing the data from the

275
00:09:44,790 --> 00:09:42,160
focus inspection for the team going

276
00:09:47,110 --> 00:09:44,800
forward after tomorrow morning

277
00:09:48,630 --> 00:09:47,120
okay so so tomorrow morning by the time

278
00:09:50,870 --> 00:09:48,640
the team

279
00:09:52,870 --> 00:09:50,880
comes in they will have uh all we'll

280
00:09:54,710 --> 00:09:52,880
have all the data on the ground

281
00:09:56,710 --> 00:09:54,720
and they will be able to to begin

282
00:09:57,750 --> 00:09:56,720
processing that data it'll get processed

283
00:10:00,230 --> 00:09:57,760
by our

284
00:10:01,750 --> 00:10:00,240
uh the the imagery and the laser experts

285
00:10:03,350 --> 00:10:01,760
first and then they'll hand that off to

286
00:10:04,790 --> 00:10:03,360
the folks that need to do the structural

287
00:10:06,069 --> 00:10:04,800
and the thermal and the aerothermal

288
00:10:07,590 --> 00:10:06,079

analyses

289
00:10:09,110 --> 00:10:07,600
it's important

290
00:10:10,630 --> 00:10:09,120
for the photo lab folks to be able to

291
00:10:12,949 --> 00:10:10,640
get the data so that we can get a more

292
00:10:14,870 --> 00:10:12,959
accurate dimensional assessment of this

293
00:10:16,710 --> 00:10:14,880
cavity and that's really key

294
00:10:19,030 --> 00:10:16,720
to the overall

295
00:10:21,670 --> 00:10:19,040
structural and thermal assessment

296
00:10:23,350 --> 00:10:21,680
and so it'll kind of go in that sequence

297
00:10:25,030 --> 00:10:23,360
and there'll be some

298
00:10:26,790 --> 00:10:25,040
some

299
00:10:28,949 --> 00:10:26,800
iteration between

300
00:10:31,509 --> 00:10:28,959
the the various analyses as they go on

301
00:10:33,670 --> 00:10:31,519
and i expect that in less than 24 hours

302
00:10:35,990 --> 00:10:33,680
we'll have their final answer

303
00:10:37,750 --> 00:10:36,000
and just depending on

304
00:10:39,750 --> 00:10:37,760
on um

305
00:10:41,590 --> 00:10:39,760
you know how how good the the data is

306
00:10:43,430 --> 00:10:41,600
and i expect it to be very good frankly

307
00:10:45,350 --> 00:10:43,440
given our experience with this

308
00:10:47,269 --> 00:10:45,360
it it's a good chance that it'd probably

309
00:10:49,590 --> 00:10:47,279
be less than 24 hours when we'll be

310
00:10:51,350 --> 00:10:49,600
ready to talk about what we think in

311
00:10:53,670 --> 00:10:51,360
terms of this site

312
00:10:57,750 --> 00:10:53,680
thanks mark

313
00:11:00,630 --> 00:10:57,760

i have a couple questions which i think

314
00:11:02,790 --> 00:11:00,640
i can kind of roll together

315
00:11:05,269 --> 00:11:02,800
i think the approach is going to give

316
00:11:08,389 --> 00:11:05,279
you a three-dimensional view that will

317
00:11:10,470 --> 00:11:08,399
tell you what's exposed and the depth of

318
00:11:13,670 --> 00:11:10,480
the

319
00:11:16,310 --> 00:11:13,680
tile damage if i'm understanding this

320
00:11:18,230 --> 00:11:17,430
yes

321
00:11:30,550 --> 00:11:18,240
it

322
00:11:33,030 --> 00:11:30,560
equivalent of a three-dimensional

323
00:11:35,990 --> 00:11:33,040
body that represents the part of the

324
00:11:38,550 --> 00:11:36,000
cavity that's that's vacated

325
00:11:40,230 --> 00:11:38,560
into the into the extent you're willing

326
00:11:42,470 --> 00:11:40,240
has your sense

327
00:11:45,350 --> 00:11:42,480
since yesterday changed and i guess i

328
00:11:47,910 --> 00:11:45,360
would characterize that as

329
00:11:49,030 --> 00:11:47,920
this is something you need to examine

330
00:11:52,150 --> 00:11:49,040
but

331
00:11:55,030 --> 00:11:52,160
you're not seeing this as a as a hazard

332
00:11:56,870 --> 00:11:55,040
or a threat at this point

333
00:11:58,870 --> 00:11:56,880
you're correct mark that that hasn't

334
00:12:00,470 --> 00:11:58,880
changed again

335
00:12:02,150 --> 00:12:00,480
we don't view this as

336
00:12:04,389 --> 00:12:02,160
as

337
00:12:06,069 --> 00:12:04,399
there's nothing alarming here and and

338
00:12:07,110 --> 00:12:06,079

we're really not concerned

339
00:12:08,710 --> 00:12:07,120
we're doing

340
00:12:11,110 --> 00:12:08,720
what we understand and know that we need

341
00:12:13,350 --> 00:12:11,120
to go do in these scenarios

342
00:12:15,190 --> 00:12:13,360
this is one that

343
00:12:16,629 --> 00:12:15,200
we feel pretty confident that we're

344
00:12:19,350 --> 00:12:16,639
going to be able to clear it once we get

345
00:12:22,069 --> 00:12:19,360
some higher fidelity data

346
00:12:23,110 --> 00:12:22,079
and since we don't positively know that

347
00:12:25,590 --> 00:12:23,120
for sure

348
00:12:26,790 --> 00:12:25,600
we take it in this order we go get the

349
00:12:29,350 --> 00:12:26,800
better data

350
00:12:31,269 --> 00:12:29,360
do the higher fidelity more accurate

351
00:12:32,870 --> 00:12:31,279
less conservative analysis

352
00:12:34,230 --> 00:12:32,880
get the answer

353
00:12:35,509 --> 00:12:34,240
and from that answer determine if

354
00:12:36,550 --> 00:12:35,519
there's anything beyond that we need to

355
00:12:38,790 --> 00:12:36,560
do

356
00:12:41,110 --> 00:12:38,800
and so but our sense is

357
00:12:42,150 --> 00:12:41,120
just as you said that this is not one

358
00:12:43,750 --> 00:12:42,160
that ultimately we're going to be

359
00:12:46,069 --> 00:12:43,760
concerned about in all likelihood not

360
00:12:49,269 --> 00:12:46,079
have to do anything about after we get

361
00:12:50,470 --> 00:12:49,279
some better dimensional analysis um

362
00:12:52,389 --> 00:12:50,480
and uh

363
00:12:53,990 --> 00:12:52,399

and therefore thermal and structural

364
00:12:57,829 --> 00:12:54,000
analysis as a result of that that we

365
00:13:00,710 --> 00:12:58,710
okay

366
00:13:01,670 --> 00:13:00,720
no further questions right now here at

367
00:13:07,269 --> 00:13:01,680
the

368
00:13:11,590 --> 00:13:09,829
um thank you thank you very much james

369
00:13:12,790 --> 00:13:11,600
from florida today

370
00:13:14,470 --> 00:13:12,800
um

371
00:13:16,949 --> 00:13:14,480
leroy could you explain a little bit

372
00:13:20,310 --> 00:13:16,959
further what you get out of a focus

373
00:13:22,230 --> 00:13:20,320
inspection that you don't get um during

374
00:13:23,750 --> 00:13:22,240
flight day two just given that it's the

375
00:13:27,430 --> 00:13:23,760
same you know

376
00:13:32,470 --> 00:13:29,990
okay yeah james you you'll recall on the

377
00:13:34,710 --> 00:13:32,480
flight day two inspections that's really

378
00:13:37,750 --> 00:13:34,720
we're inspecting the leading edge in the

379
00:13:39,910 --> 00:13:37,760
nose cap and the crew cabin areas

380
00:13:41,829 --> 00:13:39,920
we don't really get this kind of data on

381
00:13:43,189 --> 00:13:41,839
the tile

382
00:13:45,670 --> 00:13:43,199
areas

383
00:13:47,750 --> 00:13:45,680
when we do the flight day two inspection

384
00:13:49,829 --> 00:13:47,760
we get the best data on the tile areas

385
00:13:51,670 --> 00:13:49,839
when we do the rendezvous pitch maneuver

386
00:13:53,509 --> 00:13:51,680
which is where these photographs came

387
00:13:56,470 --> 00:13:53,519
from that we've been working off of up

388
00:13:59,269 --> 00:13:57,829

i say thank you

389
00:14:00,629 --> 00:13:59,279
and

390
00:14:02,710 --> 00:14:00,639
wondering what

391
00:14:03,910 --> 00:14:02,720
what more you would have to say

392
00:14:05,269 --> 00:14:03,920
to um

393
00:14:07,350 --> 00:14:05,279
for it to

394
00:14:08,870 --> 00:14:07,360
become a greater concern obviously i

395
00:14:10,550 --> 00:14:08,880
understand you don't expect that but um

396
00:14:12,470 --> 00:14:10,560
what it would be essentially and i know

397
00:14:13,990 --> 00:14:12,480
you're trying to get a 3d model but

398
00:14:15,829 --> 00:14:14,000
would it be um

399
00:14:17,509 --> 00:14:15,839
is there like a depth that you could say

400
00:14:19,910 --> 00:14:17,519
that it would have to

401
00:14:21,030 --> 00:14:19,920
penetrate to for it to

402
00:14:24,230 --> 00:14:21,040
become

403
00:14:26,389 --> 00:14:24,240
more of a concern than it is now

404
00:14:29,910 --> 00:14:26,399
well james just in general terms for

405
00:14:32,470 --> 00:14:29,920
example if if we had a scenario where

406
00:14:33,829 --> 00:14:32,480
the uh the damage went all the way to

407
00:14:35,350 --> 00:14:33,839
the sip

408
00:14:36,470 --> 00:14:35,360
went all the way to the essentially the

409
00:14:38,470 --> 00:14:36,480
interface

410
00:14:41,829 --> 00:14:38,480
uh just between the tile

411
00:14:44,389 --> 00:14:41,839
bond and and the core pond structure

412
00:14:47,269 --> 00:14:44,399
that would be something that would would

413
00:14:51,750 --> 00:14:47,279

need to be looked at in greater detail

414
00:14:53,350 --> 00:14:51,760
if it was a a clean

415
00:14:54,710 --> 00:14:53,360
clean break all the way to the edge of a

416
00:14:56,550 --> 00:14:54,720
tile for example when you went all the

417
00:14:59,509 --> 00:14:56,560
way down the sidewall the other other

418
00:15:01,350 --> 00:14:59,519
tile down to to the sip or to the what

419
00:15:03,269 --> 00:15:01,360
what's called the filler bar you know

420
00:15:05,269 --> 00:15:03,279
that's yet a different scenario if you

421
00:15:07,509 --> 00:15:05,279
had a combination of those two things

422
00:15:09,670 --> 00:15:07,519
that's probably even yet a worse case

423
00:15:13,030 --> 00:15:09,680
than those other two previous ones

424
00:15:15,750 --> 00:15:13,040
and all of those

425
00:15:17,430 --> 00:15:15,760
it it's really not about what we

426
00:15:19,430 --> 00:15:17,440
see

427
00:15:21,829 --> 00:15:19,440
in the in the photography or in the

428
00:15:24,829 --> 00:15:21,839
laser data per se it's about when we

429
00:15:27,269 --> 00:15:24,839
take that data and then go plug that

430
00:15:28,550 --> 00:15:27,279
into the thermal and the structural

431
00:15:30,949 --> 00:15:28,560
analyses

432
00:15:33,749 --> 00:15:30,959
so it won't be necessarily just as

433
00:15:35,910 --> 00:15:33,759
simple as looking at a picture a higher

434
00:15:38,310 --> 00:15:35,920
fidelity more close-up

435
00:15:41,030 --> 00:15:38,320
more clear picture if you will and

436
00:15:42,310 --> 00:15:41,040
saying yes it's good no it's bad

437
00:15:44,629 --> 00:15:42,320
it'll be a matter of taking that

438
00:15:46,069 --> 00:15:44,639

information and then translating that

439
00:15:47,990 --> 00:15:46,079
into

440
00:15:50,069 --> 00:15:48,000
the data that's necessary to run the

441
00:15:51,670 --> 00:15:50,079
models that do the thermal predictions

442
00:15:54,550 --> 00:15:51,680
and the structural predictions that then

443
00:15:56,230 --> 00:15:54,560
we can from that we can back out the

444
00:15:58,310 --> 00:15:56,240
margin that we have for the structure

445
00:16:01,749 --> 00:15:58,320
that lies underneath this area

446
00:16:07,030 --> 00:16:05,110
yes absolutely and and um

447
00:16:09,030 --> 00:16:07,040
and so uh other

448
00:16:11,189 --> 00:16:09,040
well those few crew members you

449
00:16:12,710 --> 00:16:11,199
mentioned are um

450
00:16:14,389 --> 00:16:12,720
sorry about that are

451
00:16:15,990 --> 00:16:14,399
at work on uh

452
00:16:18,069 --> 00:16:16,000
the inspection basically everything else

453
00:16:19,990 --> 00:16:18,079
will be going on as as normally

454
00:16:23,990 --> 00:16:20,000
timelines um

455
00:16:26,069 --> 00:16:24,000
morning yes that's correct thanks a lot

456
00:16:29,430 --> 00:16:26,079
okay our next uh phone bridge reporter

457
00:16:34,710 --> 00:16:31,189
thank you very much it's uh tarik malek

458
00:16:36,629 --> 00:16:34,720
from uh space.com and uh i guess just to

459
00:16:38,629 --> 00:16:36,639
to be clear on how the events will

460
00:16:40,150 --> 00:16:38,639
unfold tomorrow with the inspection um i

461
00:16:41,509 --> 00:16:40,160
know the crew had some time off that was

462
00:16:43,269 --> 00:16:41,519
scheduled it sounds like they'll still

463
00:16:45,350 --> 00:16:43,279

get that i just wanted to make sure

464
00:16:47,749 --> 00:16:45,360
that um that that would be the case and

465
00:16:50,710 --> 00:16:47,759
i'm wondering if there's any tasks

466
00:16:53,430 --> 00:16:50,720
that maybe you hoped to achieve uh in

467
00:16:55,829 --> 00:16:53,440
terms of get ahead uh with the transfer

468
00:16:58,150 --> 00:16:55,839
or anything that um that you're gonna

469
00:17:00,150 --> 00:16:58,160
have to put off uh in order to perform

470
00:17:01,829 --> 00:17:00,160
the um the two hours of extra inspection

471
00:17:03,350 --> 00:17:01,839
thanks

472
00:17:04,870 --> 00:17:03,360
yeah targ we talked a little bit about

473
00:17:06,710 --> 00:17:04,880
that yesterday and

474
00:17:08,949 --> 00:17:06,720
essentially we have

475
00:17:11,429 --> 00:17:08,959
a plan that we've had place as a

476
00:17:13,350 --> 00:17:11,439
placeholder on flight day six

477
00:17:15,029 --> 00:17:13,360
and in fact this focused inspection is

478
00:17:16,949 --> 00:17:15,039
taking less time than the placeholder

479
00:17:18,789 --> 00:17:16,959
that we had in place

480
00:17:20,549 --> 00:17:18,799
and so we're not losing any activities

481
00:17:23,750 --> 00:17:20,559
by doing this we're not losing any off

482
00:17:24,630 --> 00:17:23,760
time we're not losing any transfer time

483
00:17:27,510 --> 00:17:24,640
and

484
00:17:29,350 --> 00:17:27,520
so it's actually a more benign situation

485
00:17:34,310 --> 00:17:29,360
than what we had already in the timeline

486
00:17:38,150 --> 00:17:36,070
thank you

487
00:17:41,430 --> 00:17:38,160
okay uh sounds like that's all from

488
00:17:43,110 --> 00:17:41,440

taric so last but not least bill harwood

489
00:17:44,390 --> 00:17:43,120
yeah thanks leroy uh could you take a

490
00:17:46,950 --> 00:17:44,400
moment and just tell us how you did

491
00:17:48,150 --> 00:17:46,960
clear the yellow von i guess

492
00:17:49,669 --> 00:17:48,160
part of this you've already answered but

493
00:17:51,750 --> 00:17:49,679
i'm trying to make sure i understand how

494
00:17:53,750 --> 00:17:51,760
you can how some things can get cleared

495
00:17:56,710 --> 00:17:53,760
without an inspection whereas something

496
00:17:58,870 --> 00:17:56,720
like this one requires it thanks

497
00:18:01,669 --> 00:17:58,880
okay sure bill the

498
00:18:04,070 --> 00:18:01,679
the elevon site was a damaged site that

499
00:18:06,230 --> 00:18:04,080
dimensionally was was more benign than

500
00:18:07,350 --> 00:18:06,240
this one and even though that's in an

501
00:18:09,510 --> 00:18:07,360
area that

502
00:18:11,510 --> 00:18:09,520
that has the ability to see

503
00:18:13,830 --> 00:18:11,520
and normally we'll see

504
00:18:15,430 --> 00:18:13,840
a regime of higher heating than this

505
00:18:17,110 --> 00:18:15,440
particular area where we have this site

506
00:18:19,350 --> 00:18:17,120
of interest now

507
00:18:21,750 --> 00:18:19,360
the the damage area itself in terms of

508
00:18:24,390 --> 00:18:21,760
the overall dimensions and the depth

509
00:18:25,909 --> 00:18:24,400
was was much uh was different in the

510
00:18:27,510 --> 00:18:25,919
sense that when you look at the overall

511
00:18:28,630 --> 00:18:27,520
thickness of that tile which is quite a

512
00:18:30,710 --> 00:18:28,640
bit thicker

513
00:18:32,710 --> 00:18:30,720

back there on the elevon

514
00:18:34,070 --> 00:18:32,720
the the analyses came back and said we

515
00:18:35,830 --> 00:18:34,080
had

516
00:18:38,390 --> 00:18:35,840
much more margin than we need to in that

517
00:18:40,310 --> 00:18:38,400
area so it's essentially

518
00:18:42,950 --> 00:18:40,320
taking each one

519
00:18:44,310 --> 00:18:42,960
unto themselves and in terms of they're

520
00:18:46,070 --> 00:18:44,320
all unique

521
00:18:47,430 --> 00:18:46,080
the tile thicknesses are all different

522
00:18:49,029 --> 00:18:47,440
because they have different functions

523
00:18:51,110 --> 00:18:49,039
based on where they are

524
00:18:53,510 --> 00:18:51,120
and so in the case of the elevon

525
00:18:55,909 --> 00:18:53,520
the damage is compared to the overall

526
00:18:58,549 --> 00:18:55,919
function and requirement for the tile to

527
00:19:00,549 --> 00:18:58,559
to protect the underlying surface was

528
00:19:01,830 --> 00:19:00,559
such that we we ended up with

529
00:19:03,190 --> 00:19:01,840
quite a bit more margin than we needed

530
00:19:09,029 --> 00:19:03,200
to so we didn't have to do anything else

531
00:19:09,039 --> 00:19:17,669
anything else bill

532
00:19:21,590 --> 00:19:19,350
well not hearing anything uh we'll come

533
00:19:23,430 --> 00:19:21,600
back here to houston

534
00:19:25,590 --> 00:19:23,440
any follow-up questions here in the

535
00:19:26,950 --> 00:19:25,600
briefing room

536
00:19:28,870 --> 00:19:26,960
okay

537
00:19:30,470 --> 00:19:28,880
well that will wrap up the briefing

538
00:19:31,909 --> 00:19:30,480

thank you very much for coming a

539
00:19:34,510 --> 00:19:31,919
reminder that those graphics are

540
00:19:37,590 --> 00:19:34,520
available on the nasa website at

541
00:19:39,350 --> 00:19:37,600
www.nasa.gov in the shuttle section

542
00:19:41,190 --> 00:19:39,360
coming up a couple of programming notes

543
00:19:44,150 --> 00:19:41,200
the space station crew scheduled to

544
00:19:46,630 --> 00:19:44,160
begin at sleep shift at 4 31 pm central

545
00:19:48,150 --> 00:19:46,640
5 31 eastern and then we'll have our

546
00:19:50,310 --> 00:19:48,160
international space station flight

547
00:19:53,830 --> 00:19:50,320
director update from the mission control