
NASA

1
00:00:05,390 --> 00:00:01,670
it's great to be here to discuss the

2
00:00:07,130 --> 00:00:05,400
sts-132 launch countdown status before I

3
00:00:09,049 --> 00:00:07,140
get into that I just want to commend all

4
00:00:10,970 --> 00:00:09,059
the teams that support the space shuttle

5
00:00:12,970 --> 00:00:10,980
program here at Kennedy Space Center

6
00:00:14,900 --> 00:00:12,980
across the country and around the world

7
00:00:16,760 --> 00:00:14,910
you know these teams have done an

8
00:00:19,220 --> 00:00:16,770
outstanding job getting Atlantis the

9
00:00:21,140 --> 00:00:19,230
external tank our solid rocket boosters

10
00:00:24,019 --> 00:00:21,150
our payload and all our ground

11
00:00:27,050 --> 00:00:24,029
facilities ready to support the SGS 132

12
00:00:29,060 --> 00:00:27,060
launch in mission we've had a very clean

13
00:00:30,640 --> 00:00:29,070

countdown so far and we're currently on

14
00:00:33,560 --> 00:00:30,650
schedule and we're not working any

15
00:00:35,420 --> 00:00:33,570
working any issues the clock is

16
00:00:37,970 --> 00:00:35,430
currently holding at t-minus 11 hours

17
00:00:41,030 --> 00:00:37,980
and that's a plan built in 13 hour and

18
00:00:43,490 --> 00:00:41,040
55 minute hold last night we completed

19
00:00:46,369 --> 00:00:43,500
the loading of our onboard cryogenic

20
00:00:49,729 --> 00:00:46,379
reactants for our fuel cells we

21
00:00:53,240 --> 00:00:49,739
currently have four days of lh2 and 11

22
00:00:54,709 --> 00:00:53,250
days of lo2 pad whole time there are

23
00:00:57,410 --> 00:00:54,719
several operations and work at the pad

24
00:00:59,389 --> 00:00:57,420
this morning teams are busy retracting

25
00:01:02,150 --> 00:00:59,399
access platforms and configuring the pad

26
00:01:04,640 --> 00:01:02,160
for launch the check out of our orbiter

27
00:01:07,609 --> 00:01:04,650
and ground communications network is

28
00:01:09,320 --> 00:01:07,619
planned for 1130 this morning at

29
00:01:11,510 --> 00:01:09,330
five-thirty p.m. the rotating service

30
00:01:13,370 --> 00:01:11,520
structure will be retracted and we'll

31
00:01:16,760 --> 00:01:13,380
continue doing our final closeouts for

32
00:01:19,550 --> 00:01:16,770
launch at 7pm will perform our assets

33
00:01:20,960 --> 00:01:19,560
which list and just before 10pm the

34
00:01:23,270 --> 00:01:20,970
countdown clock will resume counting at

35
00:01:25,249 --> 00:01:23,280
t minus 11 hours will then begin our

36
00:01:27,350 --> 00:01:25,259
final external tank loading preparations

37
00:01:30,200 --> 00:01:27,360
and start clearing the pad just before

38
00:01:31,850 --> 00:01:30,210

midnight our shuttle managers will meet

39
00:01:34,730 --> 00:01:31,860
at four-fifteen a.m. tomorrow morning

40
00:01:36,190 --> 00:01:34,740
for our tanking weather briefing set up

41
00:01:38,569 --> 00:01:36,200
prior to our external tank load

42
00:01:40,249 --> 00:01:38,579
hopefully todd will give us some good

43
00:01:44,050 --> 00:01:40,259
news about the weather and we'll proceed

44
00:01:46,249 --> 00:01:44,060
with external tank loading at 455 a.m.

45
00:01:49,249 --> 00:01:46,259
flight crew will arrive at the pad and

46
00:01:52,399 --> 00:01:49,259
begin begin their ingress to the vehicle

47
00:01:54,350 --> 00:01:52,409
at 11am our launch window for tomorrow

48
00:01:57,800 --> 00:01:54,360
is approximately 10 minutes in length

49
00:01:59,090 --> 00:01:57,810
and will open at two-fifteen p.m. and we

50
00:02:00,940 --> 00:01:59,100
typically target the middle of the

51
00:02:05,330 --> 00:02:00,950
window which correlates to just after

52
00:02:07,819 --> 00:02:05,340
220 p.m. as far as our mission goes it's

53
00:02:10,190 --> 00:02:07,829
a 12 12-day mission zero contingency

54
00:02:12,320 --> 00:02:10,200
days and to weather contingency days and

55
00:02:13,580 --> 00:02:12,330
our end of mission landing is planned

56
00:02:17,900 --> 00:02:13,590
for KSC

57
00:02:20,630 --> 00:02:17,910
844 am on Wednesday May 26th as far as

58
00:02:22,309 --> 00:02:20,640
our scrub turnaround plans go we have

59
00:02:24,350 --> 00:02:22,319
enough onboard fuel cell reactants to

60
00:02:26,920 --> 00:02:24,360
get for launch attempts in five days and

61
00:02:31,039 --> 00:02:26,930
that's using our standard 24 and 48 hour

62
00:02:32,570 --> 00:02:31,049
scrub turnaround opera options we do

63
00:02:34,910 --> 00:02:32,580

have launched opportunities through May

64
00:02:36,410 --> 00:02:34,920
eighteenth and at that point run we run

65
00:02:38,600 --> 00:02:36,420
into a conflict with the range

66
00:02:40,490 --> 00:02:38,610
reconfiguration for the Delta for GPS

67
00:02:43,400 --> 00:02:40,500
launch that's scheduled for May

68
00:02:44,839 --> 00:02:43,410
twentieth to summarize the countdown is

69
00:02:47,089 --> 00:02:44,849
proceeding very well and we're not

70
00:02:48,800 --> 00:02:47,099
tracking any issues the hard work and

71
00:02:51,640 --> 00:02:48,810
dedication of everyone involved with

72
00:02:54,559 --> 00:02:51,650
sts-132 has gotten us to this point and

73
00:02:55,759 --> 00:02:54,569
all our systems are go to proceed with

74
00:02:57,770 --> 00:02:55,769
the work that remains in launch

75
00:02:59,660 --> 00:02:57,780
countdown and we're looking forward to a

76
00:03:04,220 --> 00:02:59,670
spectacular launch tomorrow afternoon at

77
00:03:05,780 --> 00:03:04,230
220 thanks Thank You Robbie ok good

78
00:03:08,690 --> 00:03:05,790
morning let's say i'll start with a

79
00:03:10,610 --> 00:03:08,700
quick status on the payloads and then we

80
00:03:13,369 --> 00:03:10,620
have a little bit of video that will run

81
00:03:17,710 --> 00:03:13,379
through let's see for the payloads this

82
00:03:21,680 --> 00:03:17,720
is actually one of the more enjoyable

83
00:03:23,930 --> 00:03:21,690
parts of the flow for us our payloads

84
00:03:26,720 --> 00:03:23,940
have been installed in the payload bay

85
00:03:30,580 --> 00:03:26,730
and are safely tucked away the payload

86
00:03:33,319 --> 00:03:30,590
bay doors were closed this past tuesday

87
00:03:36,949 --> 00:03:33,329
so the primary payloads the mrm one

88
00:03:39,440 --> 00:03:36,959

module the Russian module and the ICC

89
00:03:43,460 --> 00:03:39,450
carrier I've been in there with the

90
00:03:47,140 --> 00:03:43,470
doors closed we the only other activity

91
00:03:49,940 --> 00:03:47,150
that we have to go is the loading of the

92
00:03:52,809 --> 00:03:49,950
research the late stow experiments and

93
00:03:56,690 --> 00:03:52,819
our team is just about right now

94
00:04:00,159 --> 00:03:56,700
preparing to go and and take receipt of

95
00:04:04,280 --> 00:04:00,169
those late stow experiments from the

96
00:04:05,930 --> 00:04:04,290
research teams and then get those out to

97
00:04:07,849 --> 00:04:05,940
the pad and turn them over for

98
00:04:09,740 --> 00:04:07,859
installation into the crew compartment

99
00:04:14,809 --> 00:04:09,750
mid deck and those should be installed

100
00:04:16,789 --> 00:04:14,819
by later this afternoon so payloads

101
00:04:18,379 --> 00:04:16,799
we're not working any issues it's been a

102
00:04:23,149 --> 00:04:18,389
very

103
00:04:24,770 --> 00:04:23,159
good final flow at the pad we get to at

104
00:04:26,480 --> 00:04:24,780
this point now that the payload bay

105
00:04:29,540 --> 00:04:26,490
doors are closed kind of exhale and

106
00:04:32,809 --> 00:04:29,550
relax little and and watch the launch

107
00:04:36,619 --> 00:04:32,819
team do their thing and we look forward

108
00:04:40,129 --> 00:04:36,629
to tomorrow's launch and whether it's

109
00:04:43,219 --> 00:04:40,139
still looking good we're excited for our

110
00:04:45,290 --> 00:04:43,229
Russian partners who have been here that

111
00:04:47,809 --> 00:04:45,300
the inertia team have been here since

112
00:04:51,080 --> 00:04:47,819
December with their module getting it

113
00:04:54,499 --> 00:04:51,090

ready to go and so we're excited for

114
00:04:58,129 --> 00:04:54,509
them that that were at here at the eve

115
00:05:00,260 --> 00:04:58,139
of launching their module to the station

116
00:05:03,379 --> 00:05:00,270
and it will be not only is it the first

117
00:05:05,089 --> 00:05:03,389
Russian module to be launched or flown

118
00:05:09,529 --> 00:05:05,099
to station on the shuttle it will be the

119
00:05:11,719 --> 00:05:09,539
last also so a first and a last so we're

120
00:05:13,999 --> 00:05:11,729
looking forward to that there's the

121
00:05:17,899 --> 00:05:14,009
mission itself is going to be very

122
00:05:20,649 --> 00:05:17,909
exciting there's a 3 e VA's activities

123
00:05:23,209 --> 00:05:20,659
as well as a lot of robotics operations

124
00:05:25,999 --> 00:05:23,219
including the installation of the mram

125
00:05:31,339 --> 00:05:26,009
one module on the station that's on

126
00:05:34,339 --> 00:05:31,349
flight day 5 so we you know sit back

127
00:05:36,679 --> 00:05:34,349
relax a little today get the payload

128
00:05:39,889 --> 00:05:36,689
experiments loaded and then be out here

129
00:05:43,839 --> 00:05:39,899
tomorrow for for the launch and then get

130
00:05:47,029 --> 00:05:43,849
to watch things as they unfold on orbit

131
00:05:48,409 --> 00:05:47,039
let's see that's it for status if we

132
00:05:53,869 --> 00:05:48,419
could I believe we've got a short video

133
00:05:55,490 --> 00:05:53,879
that I'll walk through okay this is a

134
00:05:57,769 --> 00:05:55,500
back in December out at the shuttle

135
00:06:03,079 --> 00:05:57,779
landing facility and that's the Antonov

136
00:06:06,290 --> 00:06:03,089
124 heavy-lift cargo aircraft bringing

137
00:06:09,320 --> 00:06:06,300
the mrm one module from Moscow here to

138
00:06:13,089 --> 00:06:09,330

the United States this was on December

139
00:06:15,800 --> 00:06:13,099
17th looking at the transportation

140
00:06:18,690 --> 00:06:15,810
container being offloaded gets

141
00:06:25,850 --> 00:06:22,860
to a flatbed and then from there was

142
00:06:29,220 --> 00:06:25,860
taken off center and over to astrotech

143
00:06:33,480 --> 00:06:29,230
at the port for their final launch site

144
00:06:35,580 --> 00:06:33,490
preparations there you see technicians

145
00:06:38,310 --> 00:06:35,590
or as the Russians call them specialists

146
00:06:42,120 --> 00:06:38,320
loading cargo into the module and now

147
00:06:49,110 --> 00:06:42,130
they're preparing the module 2 for hatch

148
00:06:51,120 --> 00:06:49,120
closure it is launching 14 hundred

149
00:06:53,970 --> 00:06:51,130
kilograms or just over 3,000 pounds of

150
00:06:58,530 --> 00:06:53,980
us cargo inside the module now they are

151
00:07:01,110 --> 00:06:58,540
closing the hatch this is just days

152
00:07:03,420 --> 00:07:01,120
before bringing it back on center to the

153
00:07:05,460 --> 00:07:03,430
space station processing facility these

154
00:07:07,050 --> 00:07:05,470
red covers or protective covers that get

155
00:07:10,220 --> 00:07:07,060
removed just before going into our

156
00:07:14,340 --> 00:07:10,230
payload canister and now they are

157
00:07:17,250 --> 00:07:14,350
preparing it for shipment they're on air

158
00:07:18,600 --> 00:07:17,260
bearing casters right now taking it over

159
00:07:23,610 --> 00:07:18,610
to where it will be loaded into its

160
00:07:29,340 --> 00:07:23,620
shipping container these are actually

161
00:07:33,330 --> 00:07:29,350
astrotech technicians loading the module

162
00:07:39,720 --> 00:07:33,340
into the shipping container they set it

163
00:07:42,660 --> 00:07:39,730

on this blue cradle and the container

164
00:07:44,760 --> 00:07:42,670
cover gets installed over the top

165
00:07:46,500 --> 00:07:44,770
now we're in the space station

166
00:07:48,420 --> 00:07:46,510
processing facility looking at the

167
00:07:50,850 --> 00:07:48,430
module being installed into the our

168
00:07:55,400 --> 00:07:50,860
payload canister you can see the red

169
00:07:59,520 --> 00:07:57,840
that's the one of the grapple fixtures

170
00:08:01,800 --> 00:07:59,530
that's the one the space station arm

171
00:08:05,430 --> 00:08:01,810
will take the handoff from the shuttles

172
00:08:09,690 --> 00:08:05,440
arm during the mating operations this is

173
00:08:11,820 --> 00:08:09,700
a the integrated cargo carrier two days

174
00:08:13,500 --> 00:08:11,830
later on April 7th being loaded into the

175
00:08:15,360 --> 00:08:13,510
payload canister you're looking at the

176
00:08:19,860 --> 00:08:15,370
six batteries that will be installed on

177
00:08:25,690 --> 00:08:19,870
the p6 and you say the cave and antenna

178
00:08:30,790 --> 00:08:28,330
now our payload canister is being

179
00:08:33,600 --> 00:08:30,800
rotated from horizontal to vertical just

180
00:08:37,259 --> 00:08:33,610
before going out to the pad

181
00:08:42,079 --> 00:08:37,269
so we take it rotate it to vertical and

182
00:08:48,380 --> 00:08:45,120
now it's vertical and ready for the trip

183
00:08:51,360 --> 00:08:48,390
to the pad and this is April fifteenth

184
00:08:53,850 --> 00:08:51,370
in the evening on the way out to the

185
00:08:59,819 --> 00:08:53,860
launch pad passing the VAB in the launch

186
00:09:01,560 --> 00:08:59,829
control center in the background now

187
00:09:03,509 --> 00:09:01,570
we're back in the space station

188
00:09:06,120 --> 00:09:03,519

processing facility downstairs and our

189
00:09:07,650 --> 00:09:06,130
offline laboratories as the some of the

190
00:09:09,990 --> 00:09:07,660
research teams are doing their final

191
00:09:12,389 --> 00:09:10,000
preparations of their experiments for

192
00:09:15,630 --> 00:09:12,399
this flight looking out there is

193
00:09:19,790 --> 00:09:15,640
actually sterilization of rice seeds be

194
00:09:23,250 --> 00:09:19,800
prepared for the jack says a feral eight

195
00:09:26,190 --> 00:09:23,260
experiment and in these uh these are

196
00:09:29,699 --> 00:09:26,200
some of the rice seeds that are will be

197
00:09:32,910 --> 00:09:29,709
flown up and this particular experiment

198
00:09:36,180 --> 00:09:32,920
is about fish scales and there's more

199
00:09:38,730 --> 00:09:36,190
information in the press kit but these

200
00:09:42,750 --> 00:09:38,740
are scales that are harvested from Gulf

201
00:09:44,250 --> 00:09:42,760
fish and we studying basically these are

202
00:09:48,680 --> 00:09:44,260
regenerate to scales and they'll be

203
00:09:54,800 --> 00:09:48,690
studying looking at bone loss and

204
00:09:57,500 --> 00:09:54,810
atrophy now we are back to this week

205
00:10:04,259 --> 00:09:57,510
earlier on the 11th with the final

206
00:10:06,780 --> 00:10:04,269
closing of the payload bay doors this is

207
00:10:08,009 --> 00:10:06,790
a for the payload team again this is at

208
00:10:11,630 --> 00:10:08,019
the moment where we kind of let out a

209
00:10:21,449 --> 00:10:11,640
big exhale and can relax a little and

210
00:10:25,859 --> 00:10:23,819
so the doors are closed and I'd like to

211
00:10:28,919 --> 00:10:25,869
echo what Jeremy said in complimenting

212
00:10:33,290 --> 00:10:28,929
the various teams in getting a shuttle

213
00:10:36,329 --> 00:10:33,300

but the payloads ready for this flight

214
00:10:38,220 --> 00:10:36,339
was a challenging flow for the shuttle

215
00:10:41,009 --> 00:10:38,230
team you know right on the heels of

216
00:10:43,319 --> 00:10:41,019
sts-131 and getting the pad turned

217
00:10:46,350 --> 00:10:43,329
around and then the orbiter out there

218
00:10:50,189 --> 00:10:46,360
it's uh it's been a lot of activity here

219
00:10:51,749 --> 00:10:50,199
in the last 2-3 weeks but the orbiter

220
00:10:54,299 --> 00:10:51,759
team shuttle team has done a fantastic

221
00:10:57,480 --> 00:10:54,309
job and taking care of us as well

222
00:11:02,449 --> 00:10:57,490
getting our payloads installed and we're

223
00:11:07,710 --> 00:11:05,489
Todd good morning I do have some good

224
00:11:09,929 --> 00:11:07,720
weather as for good news as far as the

225
00:11:11,879 --> 00:11:09,939
weather is concerned we've had

226
00:11:13,530 --> 00:11:11,889
high-pressure overs for the past few

227
00:11:15,749 --> 00:11:13,540
days and that high pressure is stayed

228
00:11:17,609 --> 00:11:15,759
firm and now we're expecting that to

229
00:11:19,829 --> 00:11:17,619
stay over the top of Florida at least

230
00:11:22,410 --> 00:11:19,839
until sunday if we take a look at the

231
00:11:25,169 --> 00:11:22,420
satellite picture you can see virtually

232
00:11:27,090 --> 00:11:25,179
cloud-free skies over Florida and along

233
00:11:28,590 --> 00:11:27,100
the coast there are some low clouds out

234
00:11:30,840 --> 00:11:28,600
over the water and they are moving on

235
00:11:33,119 --> 00:11:30,850
shoulder and most of the nasty weather

236
00:11:34,859 --> 00:11:33,129
as well out to our north and west with

237
00:11:36,600 --> 00:11:34,869
that real strong high pressure system

238
00:11:38,519 --> 00:11:36,610

over the top of us it's going to remain

239
00:11:40,980 --> 00:11:38,529
well to our north and west throughout

240
00:11:43,980 --> 00:11:40,990
the count and even saturday and sunday

241
00:11:46,319 --> 00:11:43,990
if we would happen to need those days as

242
00:11:47,789 --> 00:11:46,329
far as the next 24 hours we're looking

243
00:11:49,799 --> 00:11:47,799
for that high pressure center to

244
00:11:50,970 --> 00:11:49,809
actually be to our north that's going to

245
00:11:53,429 --> 00:11:50,980
move some of those clouds that are

246
00:11:55,859 --> 00:11:53,439
offshore onshore so we'll see brief

247
00:11:58,049 --> 00:11:55,869
periods of partly cloudy skies easterly

248
00:12:00,809 --> 00:11:58,059
winds and overall pretty dry conditions

249
00:12:02,309 --> 00:12:00,819
as far as a tanking forecast tomorrow we

250
00:12:04,230 --> 00:12:02,319
will be looking at those scattered skies

251
00:12:05,850 --> 00:12:04,240
we may have a brief isolated shower

252
00:12:08,249 --> 00:12:05,860
right along the coast kind of move

253
00:12:10,169 --> 00:12:08,259
through but overall light easterly winds

254
00:12:12,299 --> 00:12:10,179
scattered skies and pretty dry

255
00:12:15,419 --> 00:12:12,309
conditions for tanking operations we're

256
00:12:16,949 --> 00:12:15,429
not looking at any constraints or any

257
00:12:19,499 --> 00:12:16,959
constraints to be violated by weather

258
00:12:21,329 --> 00:12:19,509
conditions at all as far as the launch

259
00:12:23,879 --> 00:12:21,339
for tomorrow afternoon we're looking for

260
00:12:25,679 --> 00:12:23,889
those scattered skies once again winds

261
00:12:27,179 --> 00:12:25,689
will be out of the east peaking at 18

262
00:12:29,819 --> 00:12:27,189
knots one thing I am a little concerned

263
00:12:32,669 --> 00:12:29,829

with that I'm watching is if we get some

264
00:12:34,110 --> 00:12:32,679
additional low-level convergence we

265
00:12:34,620 --> 00:12:34,120
could see some of those areas of clouds

266
00:12:37,440 --> 00:12:34,630
before

267
00:12:39,390 --> 00:12:37,450
early large and the some larger low

268
00:12:41,490 --> 00:12:39,400
clouds kind of move into our area like

269
00:12:43,560 --> 00:12:41,500
yesterday afternoon we could see a low

270
00:12:45,930 --> 00:12:43,570
cloud ceiling so because of those low

271
00:12:48,060 --> 00:12:45,940
cloud ceilings i'm looking at a thirty

272
00:12:52,620 --> 00:12:48,070
percent chance of weather prohibiting

273
00:12:55,860 --> 00:12:52,630
launch here at KSC as far as SRB

274
00:12:57,990 --> 00:12:55,870
recovery operations the area is going to

275
00:12:59,640 --> 00:12:58,000
be looking pretty nice out there also

276
00:13:01,470 --> 00:12:59,650
scattered skies right underneath that

277
00:13:02,790 --> 00:13:01,480
high pressure system ones are going to

278
00:13:05,250 --> 00:13:02,800
be more out of the southeast rather

279
00:13:07,110 --> 00:13:05,260
light and see states only three to four

280
00:13:09,780 --> 00:13:07,120
feet so good weather conditions for that

281
00:13:12,540 --> 00:13:09,790
operation also as far as conus

282
00:13:14,420 --> 00:13:12,550
operations for abort landing site the

283
00:13:17,190 --> 00:13:14,430
spaceflight meteorology group is

284
00:13:19,470 --> 00:13:17,200
forecasting clear skies out at edwards

285
00:13:21,390 --> 00:13:19,480
and scattered skies out of white sands

286
00:13:24,210 --> 00:13:21,400
and winds will be out of the Southwest

287
00:13:27,800 --> 00:13:24,220
at both locations rather light as far as

288
00:13:31,230 --> 00:13:27,810

the overseas landing sites SMG is

289
00:13:34,200 --> 00:13:31,240
forecasting broken skies at 5000 feet at

290
00:13:37,350 --> 00:13:34,210
Zaragosa and a chance of showers within

291
00:13:39,810 --> 00:13:37,360
20 nautical miles and showers at hystrix

292
00:13:41,460 --> 00:13:39,820
also within 20 nautical miles however

293
00:13:43,770 --> 00:13:41,470
Marrone looking good with broken skies

294
00:13:45,870 --> 00:13:43,780
at 7,000 feet and light winds so we're

295
00:13:49,410 --> 00:13:45,880
only looking good for for tomorrow

296
00:13:50,790 --> 00:13:49,420
afternoon as far as a 24-hour slip

297
00:13:52,230 --> 00:13:50,800
forecast we're still looking for that

298
00:13:53,940 --> 00:13:52,240
high pressure system to bring in some

299
00:13:56,490 --> 00:13:53,950
low clouds into our area so scattered

300
00:13:58,170 --> 00:13:56,500
skies at 3,000 feet and we're also

301
00:14:01,050 --> 00:13:58,180
looking still looking at that same

302
00:14:02,610 --> 00:14:01,060
weather pattern so we could still see

303
00:14:04,560 --> 00:14:02,620
some larger areas of clouds moving

304
00:14:05,730 --> 00:14:04,570
giving us a brief ceiling and because of

305
00:14:07,380 --> 00:14:05,740
that the probability of weather

306
00:14:10,230 --> 00:14:07,390
prohibiting launch here at KSC is at

307
00:14:12,860 --> 00:14:10,240
thirty percent for that day also the

308
00:14:15,780 --> 00:14:12,870
conus sites are also looking good few

309
00:14:18,060 --> 00:14:15,790
25,000 feet and few clouds or add

310
00:14:20,490 --> 00:14:18,070
Edwards in the few clouds at the White

311
00:14:21,840 --> 00:14:20,500
Sands overall no problems with weather

312
00:14:26,370 --> 00:14:21,850
conditions at either one of those sites

313
00:14:28,170 --> 00:14:26,380

as far as our towel sites overseas still

314
00:14:31,250 --> 00:14:28,180
looking for showers in the area at

315
00:14:33,450 --> 00:14:31,260
Zaragosa and a ceiling at 4,000 feet and

316
00:14:36,450 --> 00:14:33,460
we're also looking at winds

317
00:14:38,370 --> 00:14:36,460
strengthening up at histories however

318
00:14:41,280 --> 00:14:38,380
Marrone still looks good for Saturday

319
00:14:43,890 --> 00:14:41,290
operations in the event of a 48-hour

320
00:14:45,519 --> 00:14:43,900
slip we're going to see the upper level

321
00:14:49,210 --> 00:14:45,529
Ridge start to break down a little bit

322
00:14:50,710 --> 00:14:49,220
on Sunday and with that we'll see some

323
00:14:53,170 --> 00:14:50,720
more clouds coming in at the higher

324
00:14:55,119 --> 00:14:53,180
levels and we'll still see low level

325
00:14:56,499 --> 00:14:55,129
winds out of the East so with those two

326
00:14:59,920 --> 00:14:56,509
conditions we're looking for scattered

327
00:15:02,170 --> 00:14:59,930
skies at 3000 broken skies at 25,000 and

328
00:15:06,040 --> 00:15:02,180
overall pretty nice conditions on Sunday

329
00:15:07,299 --> 00:15:06,050
as far as the conus of Mort sites still

330
00:15:10,319 --> 00:15:07,309
looking for good conditions at both

331
00:15:13,749 --> 00:15:10,329
locations and as far as the oversee site

332
00:15:15,549 --> 00:15:13,759
Zaragoza and Marrone both look good we

333
00:15:17,499 --> 00:15:15,559
will still have some gusty surface winds

334
00:15:20,319 --> 00:15:17,509
at districts causing problems with the

335
00:15:22,119 --> 00:15:20,329
headwinds so overall we're looking at

336
00:15:24,309 --> 00:15:22,129
really good conditions for launch

337
00:15:26,319 --> 00:15:24,319
operations that high pressure system has

338
00:15:28,449 --> 00:15:26,329

been very friendly to us and bringing us

339
00:15:30,759 --> 00:15:28,459
real nice conditions for for the month

340
00:15:32,980 --> 00:15:30,769
of May and right now we're looking at a

341
00:15:35,860 --> 00:15:32,990
thirty percent chance of KSC violating

342
00:15:39,369 --> 00:15:35,870
weather constraints both friday saturday

343
00:15:40,960 --> 00:15:39,379
and even sunday kendriya thank you well

344
00:15:42,220 --> 00:15:40,970
now take questions when the microphone

345
00:15:43,929 --> 00:15:42,230
comes your way please state your name

346
00:15:45,670 --> 00:15:43,939
affiliation and to whom you're

347
00:15:49,179 --> 00:15:45,680
addressing your question I'll start with

348
00:15:51,850 --> 00:15:49,189
Chris um Chris Gebert with NASA Space

349
00:15:54,670 --> 00:15:51,860
Flight comm with one for Jeremy and one

350
00:15:56,470 --> 00:15:54,680
for Robbie for Jeremy what is the

351
00:15:58,150 --> 00:15:56,480
current a launch time tomorrow down to

352
00:16:00,610 --> 00:15:58,160
the second that you have for the latest

353
00:16:04,150 --> 00:16:00,620
opportunity right now I'm tracking 220

354
00:16:05,439 --> 00:16:04,160
and eight seconds and for Robbie I'm in

355
00:16:07,420 --> 00:16:05,449
terms of the lates to experiments that

356
00:16:08,920 --> 00:16:07,430
are going on today can you talk a little

357
00:16:11,139 --> 00:16:08,930
bit about what some of those are and

358
00:16:12,670 --> 00:16:11,149
what type of turnaround time you have on

359
00:16:16,179 --> 00:16:12,680
that should we find ourselves in a scrub

360
00:16:19,780 --> 00:16:16,189
turnaround situation sure let's see

361
00:16:23,799 --> 00:16:19,790
there's several of the experiments are

362
00:16:25,809 --> 00:16:23,809
jaksa sponsored experiments the one or

363
00:16:31,139 --> 00:16:25,819

two actually that I mentioned during the

364
00:16:34,230 --> 00:16:31,149
video the fish scales and the feral 8

365
00:16:36,660 --> 00:16:34,240
experiment Fairlake tis is studying

366
00:16:39,429 --> 00:16:36,670
basically the effects of microgravity

367
00:16:41,710 --> 00:16:39,439
spaceflight on on the cellular wall

368
00:16:44,410 --> 00:16:41,720
structure of these in this case the rice

369
00:16:48,040 --> 00:16:44,420
seats but they also have a third the

370
00:16:52,689 --> 00:16:48,050
hydro tropi experiment that's looking at

371
00:16:56,050 --> 00:16:52,699
using a moisture gradient as a control

372
00:16:57,970 --> 00:16:56,060
mechanism for for plant growth on

373
00:17:02,130 --> 00:16:57,980
bit during the microgravity environment

374
00:17:06,640 --> 00:17:02,140
where you have a lack of gravity and

375
00:17:08,800 --> 00:17:06,650
generally plants them on earth their

376
00:17:10,990 --> 00:17:08,810
root structure grows towards gravity

377
00:17:12,100 --> 00:17:11,000
without that it kind of tends to go in

378
00:17:13,240 --> 00:17:12,110
all different directions and they're

379
00:17:16,600 --> 00:17:13,250
trying to control that so they're

380
00:17:19,780 --> 00:17:16,610
looking at using moisture gradient as a

381
00:17:21,670 --> 00:17:19,790
control mechanism for for that so in

382
00:17:23,230 --> 00:17:21,680
addition to the jacks experiments and

383
00:17:30,730 --> 00:17:23,240
all of those will be transferred over

384
00:17:35,110 --> 00:17:30,740
and uncontrollable there's a couple of

385
00:17:37,410 --> 00:17:35,120
National Lab Pathfinder experiments one

386
00:17:40,570 --> 00:17:37,420
is a cell's experiment just looking at

387
00:17:42,520 --> 00:17:40,580
replication of cells in the microgravity

388
00:17:45,010 --> 00:17:42,530

environment trying to improve techniques

389
00:17:48,040 --> 00:17:45,020
and the other is one of the series of

390
00:17:50,230 --> 00:17:48,050
the vaccine experiments looking at

391
00:17:53,140 --> 00:17:50,240
basically at pathogens and developing

392
00:17:55,240 --> 00:17:53,150
vaccines for various pathogens this is

393
00:17:58,000 --> 00:17:55,250
the ninth I believe in that series of

394
00:18:00,010 --> 00:17:58,010
experiments to be flown in addition it

395
00:18:01,930 --> 00:18:00,020
is that there's a several other there's

396
00:18:05,500 --> 00:18:01,940
a lot of science that's a that's going

397
00:18:06,790 --> 00:18:05,510
up and as well they were actually in

398
00:18:09,370 --> 00:18:06,800
addition to the ones we're taking up

399
00:18:12,010 --> 00:18:09,380
some of it stays some of it goes up and

400
00:18:13,780 --> 00:18:12,020
comes back a sortie flight and then

401
00:18:15,250 --> 00:18:13,790
there's also a lot of science that we're

402
00:18:18,820 --> 00:18:15,260
bringing home that's been up there and

403
00:18:21,790 --> 00:18:18,830
undergoing you know research experiments

404
00:18:26,370 --> 00:18:21,800
actually some of it since last November

405
00:18:28,630 --> 00:18:26,380
so so it's even though we don't have a

406
00:18:31,480 --> 00:18:28,640
one of the logistics modules that

407
00:18:33,250 --> 00:18:31,490
typically brings a lot of science with

408
00:18:36,820 --> 00:18:33,260
it there is a lot of science on this

409
00:18:39,010 --> 00:18:36,830
flight going up and coming back and I

410
00:18:41,130 --> 00:18:39,020
have more details I can provide you or

411
00:18:44,350 --> 00:18:41,140
there's more in the press kit as well

412
00:18:46,900 --> 00:18:44,360
Marcia I'm sorry I just wanted the the

413
00:18:48,640 --> 00:18:46,910

final launch T 0 what will come up with

414
00:18:50,710 --> 00:18:48,650
that at the t minus time in Holden and

415
00:18:53,740 --> 00:18:50,720
we'll get that out to everybody sorry

416
00:18:55,900 --> 00:18:53,750
Marcia Marcia Dunn Associated Press

417
00:18:58,000 --> 00:18:55,910
first for mr. Ashley do you have a

418
00:19:00,040 --> 00:18:58,010
number of Russians in town for the

419
00:19:06,040 --> 00:19:00,050
launched you know estimated how many are

420
00:19:08,480 --> 00:19:06,050
here well total i do not know I we've

421
00:19:11,990 --> 00:19:08,490
primarily been working with the anarchy

422
00:19:16,880 --> 00:19:12,000
team that was responsible for the mrm

423
00:19:19,460 --> 00:19:16,890
one module itself so about right now

424
00:19:22,340 --> 00:19:19,470
there's probably about 30 or so roughly

425
00:19:23,930 --> 00:19:22,350
of the inner ghia team this is much

426
00:19:25,669 --> 00:19:23,940
smaller than the numbers obviously when

427
00:19:28,160 --> 00:19:25,679
they were actively preparing their

428
00:19:31,490 --> 00:19:28,170
module but I don't have a good number in

429
00:19:33,470 --> 00:19:31,500
terms of other like Roscosmos Russian

430
00:19:38,450 --> 00:19:33,480
space agency visitors but I know that

431
00:19:42,440 --> 00:19:38,460
there will be you know another fairly

432
00:19:44,540 --> 00:19:42,450
large contingent of Ross cosmos visitors

433
00:19:47,570 --> 00:19:44,550
as well obviously for the launching of

434
00:19:51,440 --> 00:19:47,580
their module thank you and for mr.

435
00:19:52,640 --> 00:19:51,450
Graber would you anticipate trying if

436
00:19:54,740 --> 00:19:52,650
all things are we going you don't get

437
00:19:56,960 --> 00:19:54,750
off tomorrow would you probably just due

438
00:19:59,210 --> 00:19:56,970

to stand down and do two more could you

439
00:20:02,780 --> 00:19:59,220
conceive doing three in a row or what's

440
00:20:05,090 --> 00:20:02,790
your going in ideas again the launch

441
00:20:08,810 --> 00:20:05,100
director has that prerogative to look at

442
00:20:10,640 --> 00:20:08,820
the day of launch conditions if we were

443
00:20:14,750 --> 00:20:10,650
to have that 24-hour scrub turn around

444
00:20:16,580 --> 00:20:14,760
and we had to go into another scrub we

445
00:20:18,110 --> 00:20:16,590
would talk about it there are several

446
00:20:20,480 --> 00:20:18,120
factors that that play into that

447
00:20:23,540 --> 00:20:20,490
decision but we're going to do the smart

448
00:20:26,000 --> 00:20:23,550
thing we'll look at the the crew rest

449
00:20:28,490 --> 00:20:26,010
for the the folks on console will look

450
00:20:30,080 --> 00:20:28,500
at all those different factors and make

451
00:20:32,240 --> 00:20:30,090
an assessment and then decide from that

452
00:20:34,220 --> 00:20:32,250
point on but our our baseline plan would

453
00:20:38,510 --> 00:20:34,230
be to do a 24-hour scrub turnaround

454
00:20:40,780 --> 00:20:38,520
followed by a 48-hour turnaround Robert

455
00:20:43,520 --> 00:20:40,790
hi Robert Pearlman with collectspace.com

456
00:20:45,560 --> 00:20:43,530
with a question for Robbie in regards to

457
00:20:48,560 --> 00:20:45,570
this being the first and I guess last

458
00:20:51,740 --> 00:20:48,570
Russian module can you explain why it

459
00:20:54,440 --> 00:20:51,750
differs from the parotta docking module

460
00:20:56,270 --> 00:20:54,450
that was launched in 1985 to mirror that

461
00:21:01,340 --> 00:20:56,280
was also anarchy a built on the shuttle

462
00:21:04,130 --> 00:21:01,350
thanks well that of course was a another

463
00:21:07,520 --> 00:21:04,140

Russian module but and but that one as

464
00:21:09,260 --> 00:21:07,530
you mentioned I was destined for the MIR

465
00:21:10,669 --> 00:21:09,270
space station so when I say the first

466
00:21:12,850 --> 00:21:10,679
and the last I meant the first and the

467
00:21:16,710 --> 00:21:12,860
last lost on the shuttle to the

468
00:21:21,750 --> 00:21:19,649
clara clara moskowitz with space calm

469
00:21:24,120 --> 00:21:21,760
and this is also for mr. Ashley you

470
00:21:26,490 --> 00:21:24,130
mentioned the 14 hundred kilograms of us

471
00:21:28,980 --> 00:21:26,500
cargo could you just give a little bit

472
00:21:31,740 --> 00:21:28,990
more idea of what that cargo is sure

473
00:21:34,830 --> 00:21:31,750
it's a it's a mixed bag so to speak but

474
00:21:39,350 --> 00:21:34,840
there's a lot of it is crew provisions

475
00:21:44,899 --> 00:21:39,360
food other crew supplies there there are

476
00:21:51,240 --> 00:21:48,120
some replacement parts for some of the

477
00:21:57,480 --> 00:21:51,250
components on orbit including the sabaki

478
00:22:03,930 --> 00:21:57,490
a that was launched on sts-131 there's

479
00:22:08,010 --> 00:22:03,940
some spares for it and there's you know

480
00:22:09,480 --> 00:22:08,020
lithium hydroxide oxygen canisters it's

481
00:22:11,370 --> 00:22:09,490
a it's a mixed bag there's there's

482
00:22:15,380 --> 00:22:11,380
several laptop computers that are going

483
00:22:21,960 --> 00:22:15,390
up i can give you further details

484
00:22:23,909 --> 00:22:21,970
afterwards ken for Robbie pretty much to

485
00:22:25,950 --> 00:22:23,919
follow up on that question Mike Moses

486
00:22:28,080 --> 00:22:25,960
said that this module was pretty pretty

487
00:22:31,289 --> 00:22:28,090
packed are these can you describe that

488
00:22:34,140 --> 00:22:31,299

how how packed it isn't and and are

489
00:22:35,730 --> 00:22:34,150
these components on the inside the

490
00:22:41,159 --> 00:22:35,740
shuttle bags and are there any science

491
00:22:43,080 --> 00:22:41,169
experiments also on mrm one okay so the

492
00:22:46,680 --> 00:22:43,090
first part of that as far as how packed

493
00:22:48,090 --> 00:22:46,690
it is very tightly packed you know one

494
00:22:51,480 --> 00:22:48,100
of the things they will have to do but

495
00:22:54,899 --> 00:22:51,490
is is before they're able to use the

496
00:22:56,520 --> 00:22:54,909
module for its primary mission is to

497
00:22:58,350 --> 00:22:56,530
unload all of the cargo there's not

498
00:23:00,330 --> 00:22:58,360
enough room to work in there with the

499
00:23:03,419 --> 00:23:00,340
bags installed so there are bags

500
00:23:05,520 --> 00:23:03,429
installed on around either side port and

501
00:23:09,270 --> 00:23:05,530
starboard as well as down book called

502
00:23:13,289 --> 00:23:09,280
the center aisle so it is it's very

503
00:23:16,140 --> 00:23:13,299
tightly packed in the module and as far

504
00:23:20,130 --> 00:23:16,150
as experiments flying on it there's

505
00:23:21,659 --> 00:23:20,140
there's no like experiment samples or

506
00:23:24,299 --> 00:23:21,669
anything but there is some experiment

507
00:23:25,889 --> 00:23:24,309
hardware that is being taken up inside

508
00:23:28,649 --> 00:23:25,899
the module to support some of the

509
00:23:30,600 --> 00:23:28,659
experiments that are that are up there

510
00:23:32,250 --> 00:23:30,610
now as well as some of this

511
00:23:34,049 --> 00:23:32,260
boarding hardware for the National Lab

512
00:23:38,010 --> 00:23:34,059
pathfinders that are flying up on this

513
00:23:43,080 --> 00:23:38,020

mission did I get all parts of your

514
00:23:44,940 --> 00:23:43,090
question or sure James thanks James Dean

515
00:23:46,169 --> 00:23:44,950
floor today for either Jeremy Robbie

516
00:23:47,549 --> 00:23:46,179
just wonder if you could comment on the

517
00:23:50,299 --> 00:23:47,559
significance of this flight not just

518
00:23:51,870 --> 00:23:50,309
from an Atlantis perspective but on the

519
00:23:55,140 --> 00:23:51,880
capability that you're going to be

520
00:23:58,440 --> 00:23:55,150
adding to space station with a only a

521
00:24:01,130 --> 00:23:58,450
few more flights before you can call the

522
00:24:04,520 --> 00:24:01,140
US segment at least assembly complete

523
00:24:07,020 --> 00:24:04,530
start with Atlantis and then I'll sure

524
00:24:11,000 --> 00:24:07,030
you know every every space shuttle

525
00:24:13,200 --> 00:24:11,010
flight is is an amazing feat there's a

526
00:24:16,230 --> 00:24:13,210
huge number of people that are involved

527
00:24:19,740 --> 00:24:16,240
and put a whole lot of hard work and

528
00:24:22,409 --> 00:24:19,750
heart and and effort into it so each one

529
00:24:24,900 --> 00:24:22,419
of these is an amazing feat and and we

530
00:24:29,100 --> 00:24:24,910
you know care about each one exactly the

531
00:24:31,710 --> 00:24:29,110
same and you know we're we're happy to

532
00:24:35,820 --> 00:24:31,720
have Atlantis be ready to go and the

533
00:24:38,730 --> 00:24:35,830
teams are all ready to go and as far as

534
00:24:40,500 --> 00:24:38,740
significance for the payloads and what

535
00:24:42,330 --> 00:24:40,510
that will bring to the station was the

536
00:24:45,930 --> 00:24:42,340
primary payload the primary objective is

537
00:24:48,840 --> 00:24:45,940
the launching of the mrm one and it it's

538
00:24:52,100 --> 00:24:48,850

a it's a mini research module so after

539
00:24:56,539 --> 00:24:52,110
all of the cargo that's inside is

540
00:24:59,850 --> 00:24:56,549
removed they they will transfer some

541
00:25:02,750 --> 00:24:59,860
experiment racks workstations into it

542
00:25:05,760 --> 00:25:02,760
and so they will be able to perform

543
00:25:12,330 --> 00:25:05,770
science in these own work stations as

544
00:25:15,960 --> 00:25:12,340
well is the module once docked to the

545
00:25:19,860 --> 00:25:15,970
station is docked to the zaria or FGB

546
00:25:22,320 --> 00:25:19,870
module so it'll be taking a permanent

547
00:25:26,010 --> 00:25:22,330
residence there on that docking port and

548
00:25:29,760 --> 00:25:26,020
but it will be its Afton will also serve

549
00:25:32,850 --> 00:25:29,770
as a replacement or the fourth docking

550
00:25:35,100 --> 00:25:32,860
port on the Russian segment so future so

551
00:25:38,010 --> 00:25:35,110
use in progress vehicles will be able to

552
00:25:42,060 --> 00:25:38,020
dock there as one of the four Russian

553
00:25:44,010 --> 00:25:42,070
segment ports and then also I haven't

554
00:25:47,040 --> 00:25:44,020
talked a whole lot about it but kind of

555
00:25:49,530 --> 00:25:47,050
writing up piggyback on the mrm one are

556
00:25:52,620 --> 00:25:49,540
several of the outfitting components for

557
00:25:56,310 --> 00:25:52,630
a later Russian module the multi-purpose

558
00:25:59,600 --> 00:25:56,320
laboratory module MLM which i believe is

559
00:26:03,330 --> 00:25:59,610
it's got to be launched in the fall of

560
00:26:05,760 --> 00:26:03,340
2012 although don't hold me to that but

561
00:26:07,500 --> 00:26:05,770
there's the equipment airlock that's

562
00:26:10,560 --> 00:26:07,510
prominently featured there on the back

563
00:26:13,350 --> 00:26:10,570

of the mrm one so this airlock will be

564
00:26:16,830 --> 00:26:13,360
used for transferring equipment from

565
00:26:19,520 --> 00:26:16,840
inside out it also has the radiator

566
00:26:25,590 --> 00:26:19,530
which will be used for cooling of the

567
00:26:28,560 --> 00:26:25,600
MLM module and there's a spare elbow for

568
00:26:32,070 --> 00:26:28,570
the European orissa robotic arm that is

569
00:26:36,210 --> 00:26:32,080
also mounted and going up so that that

570
00:26:41,190 --> 00:26:36,220
will like I said it's a spare but so if

571
00:26:45,570 --> 00:26:41,200
needed it will be used for the ISA robot

572
00:26:49,830 --> 00:26:45,580
arm in in doing the transfer of these

573
00:26:51,900 --> 00:26:49,840
items from the mrm one over to the MLM

574
00:26:55,260 --> 00:26:51,910
once it arrives as well as you know

575
00:26:57,630 --> 00:26:55,270
future robotic activities and then there

576
00:27:01,020 --> 00:26:57,640
is a portable workstation for crew

577
00:27:03,120 --> 00:27:01,030
member EBA who that's it's flown on the

578
00:27:08,780 --> 00:27:03,130
exterior and will be available for

579
00:27:15,300 --> 00:27:12,840
thanks and for todd just wondered if you

580
00:27:16,650 --> 00:27:15,310
know with this possible low cloud cover

581
00:27:18,150 --> 00:27:16,660
that could get developers that's

582
00:27:20,880 --> 00:27:18,160
something you're likely to see coming

583
00:27:22,680 --> 00:27:20,890
well before launch time or is it

584
00:27:23,820 --> 00:27:22,690
something that you know what happened

585
00:27:25,650 --> 00:27:23,830
kind of quickly and you just have to

586
00:27:27,660 --> 00:27:25,660
kind of get lucky in that 10-minute

587
00:27:29,070 --> 00:27:27,670
window for the most part we're going to

588
00:27:31,560 --> 00:27:29,080

be able to see those clouds coming

589
00:27:33,480 --> 00:27:31,570
they're going to be out off offshore and

590
00:27:35,310 --> 00:27:33,490
we'll be watching on satellite and we'll

591
00:27:37,140 --> 00:27:35,320
have observers station in different

592
00:27:38,940 --> 00:27:37,150
different areas watching for the clouds

593
00:27:40,770 --> 00:27:38,950
to come in so we'll be able to see on

594
00:27:42,630 --> 00:27:40,780
satellite those move in and verify it

595
00:27:44,310 --> 00:27:42,640
they're moving in with our ground

596
00:27:45,330 --> 00:27:44,320
observations will be able to see them

597
00:27:47,550 --> 00:27:45,340
tomorrow morning soon as we get that

598
00:27:48,810 --> 00:27:47,560
visible satellite picture we'll start to

599
00:27:52,620 --> 00:27:48,820
see those clouds and see where they're

600
00:27:55,960 --> 00:27:52,630
at Irene

601
00:27:58,780 --> 00:27:55,970
I'm Irene Klotz with Reuters I'm on the

602
00:28:01,290 --> 00:27:58,790
clouds is that a towel issue or is that

603
00:28:05,950 --> 00:28:01,300
also for visibility for range safety

604
00:28:09,580 --> 00:28:05,960
that's a range safety issue the range is

605
00:28:11,320 --> 00:28:09,590
required to be able to see the vehicle

606
00:28:13,330 --> 00:28:11,330
take off and also go through the clouds

607
00:28:14,680 --> 00:28:13,340
and come out the top of the clouds so

608
00:28:19,480 --> 00:28:14,690
that's why we have those range safety

609
00:28:24,790 --> 00:28:19,490
requirements and over here in the front

610
00:28:27,640 --> 00:28:24,800
row please Peter I would suddenly BAM in

611
00:28:29,440 --> 00:28:27,650
Australia question for mr. Graber on the

612
00:28:32,020 --> 00:28:29,450
last mission discovery there was a

613
00:28:34,200 --> 00:28:32,030

fairly large piece of tile liberated

614
00:28:36,580 --> 00:28:34,210
from the tail section and I just

615
00:28:39,070 --> 00:28:36,590
wondered if there was a reason for that

616
00:28:42,430 --> 00:28:39,080
was at a debris strike or a value of the

617
00:28:46,240 --> 00:28:42,440
attachment and if there's any actions is

618
00:28:48,250 --> 00:28:46,250
following that well for Atlantis we've

619
00:28:51,130 --> 00:28:48,260
gone and inspected all of those similar

620
00:28:52,690 --> 00:28:51,140
tiles and feel that there we've done

621
00:28:54,299 --> 00:28:52,700
everything we can to look at those and

622
00:28:56,380 --> 00:28:54,309
understand that they're in good shape

623
00:28:58,780 --> 00:28:56,390
there are no issues with those tiles

624
00:29:02,410 --> 00:28:58,790
whatsoever they're continuing to look at

625
00:29:05,650 --> 00:29:02,420
the discoveries tiles and under try and

626
00:29:07,150 --> 00:29:05,660
understand exactly what happened there

627
00:29:09,610 --> 00:29:07,160
have been the right folks have gotten

628
00:29:11,770 --> 00:29:09,620
together several teams have been put

629
00:29:13,180 --> 00:29:11,780
together to go look at that they've

630
00:29:16,180 --> 00:29:13,190
looked at it from many different angles

631
00:29:18,640 --> 00:29:16,190
and some of that data is still in work

632
00:29:22,210 --> 00:29:18,650
but there's there's no issue with

633
00:29:27,070 --> 00:29:22,220
Atlantis's tiles and atlantis is ready

634
00:29:29,590 --> 00:29:27,080
to go and a question for mr. actually um

635
00:29:31,570 --> 00:29:29,600
I believe there was a issue a little

636
00:29:34,390 --> 00:29:31,580
while ago identified on the mrm one a

637
00:29:37,419 --> 00:29:34,400
module where some paint was flaking off

638
00:29:40,450 --> 00:29:37,429

was that resolved an issue something

639
00:29:43,540 --> 00:29:40,460
done need you address that yes it has

640
00:29:45,310 --> 00:29:43,550
been resolved and it's it's the thermal

641
00:29:47,110 --> 00:29:45,320
protective coating on the radiator and

642
00:29:51,940 --> 00:29:47,120
that there were some flakes that were

643
00:29:54,220 --> 00:29:51,950
found liberated after we transferred out

644
00:29:55,930 --> 00:29:54,230
to the launch pad rotated a vertical and

645
00:29:58,180 --> 00:29:55,940
got out to the launch pad and during our

646
00:30:01,750 --> 00:29:58,190
transfer operations some of these flakes

647
00:30:03,310 --> 00:30:01,760
were noted of course you know pulled

648
00:30:06,010 --> 00:30:03,320
together the technical communities both

649
00:30:08,110 --> 00:30:06,020
on the Russian side and and our side too

650
00:30:10,270 --> 00:30:08,120
talk about it this coding is very

651
00:30:12,880 --> 00:30:10,280
similar almost identical to the thermal

652
00:30:15,130 --> 00:30:12,890
coding that we use on our us-built

653
00:30:18,960 --> 00:30:15,140
radiators so we're very familiar with

654
00:30:22,300 --> 00:30:18,970
the material properties of it and

655
00:30:26,220 --> 00:30:22,310
basically in summary the assessment was

656
00:30:29,890 --> 00:30:26,230
that you know this was this liberation

657
00:30:32,500 --> 00:30:29,900
was an in local very small percentage of

658
00:30:33,940 --> 00:30:32,510
the area less than point two percent of

659
00:30:35,770 --> 00:30:33,950
where it was being liberated from it

660
00:30:37,720 --> 00:30:35,780
it's coming from an area that had

661
00:30:40,690 --> 00:30:37,730
undergone some repair or touch-up work

662
00:30:46,270 --> 00:30:40,700
at the Astro tech facility and it's a

663
00:30:50,380 --> 00:30:46,280

very dismiss it it's very difficult to

664
00:30:52,870 --> 00:30:50,390
do repairs and so that's you know the

665
00:30:55,360 --> 00:30:52,880
thoughts there where that you know it

666
00:30:58,480 --> 00:30:55,370
just had become d bonded in this small

667
00:31:00,580 --> 00:30:58,490
repair area but the overall assessment

668
00:31:05,640 --> 00:31:00,590
is that it's a it's not an issue from a

669
00:31:15,070 --> 00:31:09,310
delaminated material had been has been

670
00:31:18,370 --> 00:31:15,080
removed so it's all ready to go no

671
00:31:20,530 --> 00:31:18,380
further questions that will conclude the

672
00:31:22,570 --> 00:31:20,540
L minus 1 countdown status briefing as

673
00:31:24,220 --> 00:31:22,580
Jeremy mentioned the rotating service

674
00:31:25,900 --> 00:31:24,230
structure will be moved away from space

675
00:31:27,850 --> 00:31:25,910
shuttle Atlantis tonight at five-thirty

676
00:31:29,920 --> 00:31:27,860
p.m. eastern time that will be shown on

677
00:31:32,350 --> 00:31:29,930
NASA television please join us tomorrow

678
00:31:35,380 --> 00:31:32,360
morning for live launch coverage that

679
00:31:37,480 --> 00:31:35,390
will begin at 4 45 a.m. with taking

680
00:31:42,040 --> 00:31:37,490
commentary for more information on the