
Space Cente

1
00:00:06,450 --> 00:00:03,659
good morning and welcome to today's

2
00:00:08,880 --> 00:00:06,460
mission status briefing with us today is

3
00:00:12,630 --> 00:00:08,890
Jerry Jason the International Space

4
00:00:15,030 --> 00:00:12,640
Station flight control director whose is

5
00:00:18,480 --> 00:00:15,040
just coming off his orbit one shift

6
00:00:19,740 --> 00:00:18,490
Jerry thank you very much to start out

7
00:00:21,330 --> 00:00:19,750
the briefing today just kind of like to

8
00:00:23,189 --> 00:00:21,340
give you a little bit of status of how

9
00:00:25,590 --> 00:00:23,199
things are going on board today we've

10
00:00:28,170 --> 00:00:25,600
had a very successful day on orbit the

11
00:00:30,960 --> 00:00:28,180
crew successfully installed the MPL em

12
00:00:32,400 --> 00:00:30,970
on node to nadir port crew is running

13
00:00:34,169 --> 00:00:32,410

approximately an hour ahead of schedule

14
00:00:37,259 --> 00:00:34,179
when I left so everything's going really

15
00:00:39,149 --> 00:00:37,269
really well we only had one minor glitch

16
00:00:41,819 --> 00:00:39,159
during the entire birthing process we

17
00:00:43,829 --> 00:00:41,829
had a micro switch on one of the payload

18
00:00:46,259 --> 00:00:43,839
Bay perlas which is a payload retention

19
00:00:48,059 --> 00:00:46,269
latch failed to indicate that the perla

20
00:00:50,219 --> 00:00:48,069
was open we have a second micro switch

21
00:00:52,079 --> 00:00:50,229
that gave us the indication was open we

22
00:00:54,209 --> 00:00:52,089
can also monitor the occurrence of the

23
00:00:56,069 --> 00:00:54,219
motors and everything indicated that it

24
00:00:57,930 --> 00:00:56,079
was open so it had no impact to the

25
00:01:00,029 --> 00:00:57,940
timeline and we got through the birthing

26
00:01:01,799 --> 00:01:00,039
pretty much an anomaly fashion crews

27
00:01:03,779 --> 00:01:01,809
doing great they're in a good mood both

28
00:01:05,910 --> 00:01:03,789
the station and the shuttle crews are

29
00:01:07,350 --> 00:01:05,920
doing great and the ground team is in a

30
00:01:08,820 --> 00:01:07,360
very good mood and spirits are pretty

31
00:01:11,760 --> 00:01:08,830
high cuz we're having such a successful

32
00:01:13,110 --> 00:01:11,770
mission so I also wanted to cover a

33
00:01:14,760 --> 00:01:13,120
couple things that probably talked about

34
00:01:17,070 --> 00:01:14,770
the last couple days one is the in

35
00:01:19,140 --> 00:01:17,080
regards to the orbital debris that we

36
00:01:22,320 --> 00:01:19,150
are tracking we've gotten some updates

37
00:01:24,150 --> 00:01:22,330
since the docking yesterday and

38
00:01:26,010 --> 00:01:24,160

everything indicates that the debris is

39
00:01:27,690 --> 00:01:26,020
going to be well clear of station the

40
00:01:30,600 --> 00:01:27,700
latest total missed distance was around

41
00:01:33,090 --> 00:01:30,610
18 kilometers which is well outside our

42
00:01:35,580 --> 00:01:33,100
action block so we're not going to take

43
00:01:37,740 --> 00:01:35,590
any action to move out of the way of

44
00:01:40,830 --> 00:01:37,750
this orbital debris and it should clear

45
00:01:45,050 --> 00:01:40,840
tomorrow with no issue at all secondly

46
00:01:47,880 --> 00:01:45,060
we had a GPC 3 issue on the shuttle

47
00:01:51,240 --> 00:01:47,890
today the crew successfully reloaded

48
00:01:54,000 --> 00:01:51,250
that GPC and it is currently operational

49
00:01:57,149 --> 00:01:54,010
and is ready for use for when we undock

50
00:02:02,190 --> 00:01:57,159
and do the entry later this in later

51
00:02:04,370 --> 00:02:02,200
this week additionally we're doing well

52
00:02:06,630 --> 00:02:04,380
on the cryo margins on board the shuttle

53
00:02:09,479 --> 00:02:06,640
things are looking good for an extension

54
00:02:12,119 --> 00:02:09,489
day although that official decision will

55
00:02:13,640 --> 00:02:12,129
be made by the mission management team

56
00:02:20,240 --> 00:02:13,650
probably

57
00:02:22,339 --> 00:02:20,250
tomorrow or the next day Thank You Jerry

58
00:02:24,589 --> 00:02:22,349
will take questions now we'll start here

59
00:02:26,449 --> 00:02:24,599
in Houston please wait for the

60
00:02:32,690 --> 00:02:26,459
microphone and please remember to tell

61
00:02:34,729 --> 00:02:32,700
us your name and your affiliation dan

62
00:02:36,229 --> 00:02:34,739
vergano with USA Today could you say a

63
00:02:38,660 --> 00:02:36,239

little bit more about what the crew is

64
00:02:43,819 --> 00:02:38,670
going to be doing today it's more than

65
00:02:45,770 --> 00:02:43,829
just schlepping bags around icing um the

66
00:02:48,589 --> 00:02:45,780
crew will be busy basically preparing

67
00:02:51,740 --> 00:02:48,599
the MP LMK when i went off console today

68
00:02:54,589 --> 00:02:51,750
they were basically leak checking the

69
00:02:57,259 --> 00:02:54,599
port that we docked to the npm to excuse

70
00:02:58,039 --> 00:02:57,269
me birth the npl m2 so there and then

71
00:03:00,710 --> 00:02:58,049
they're going to go ahead and do that

72
00:03:02,599 --> 00:03:00,720
outfitting we go ahead and we open up

73
00:03:05,149 --> 00:03:02,609
the hatches and we do an environment

74
00:03:07,729 --> 00:03:05,159
check make sure that the air is good in

75
00:03:11,179 --> 00:03:07,739
there and and before we actually allow

76
00:03:13,009 --> 00:03:11,189
the crew to go in and access it so the

77
00:03:14,390 --> 00:03:13,019
rest of the day the crew is going to be

78
00:03:17,960 --> 00:03:14,400
getting ready for the EBA tomorrow we

79
00:03:19,280 --> 00:03:17,970
have our EV a tomorrow so they've been

80
00:03:21,800 --> 00:03:19,290
doing their prep work to make sure that

81
00:03:24,680 --> 00:03:21,810
suits are ready to go reviewing their

82
00:03:28,129 --> 00:03:24,690
procedures and doing their general prep

83
00:03:30,909 --> 00:03:28,139
work for the EBA so besides going to mpm

84
00:03:35,780 --> 00:03:30,919
ready to go is mostly working on the EBA

85
00:03:37,399 --> 00:03:35,790
Gina Gina sincerity be seniors how many

86
00:03:39,649 --> 00:03:37,409
of the crew members will be involved in

87
00:03:41,899 --> 00:03:39,659
the transfers I mean is this an

88
00:03:43,399 --> 00:03:41,909

all-hands-on-deck issue except when

89
00:03:46,610 --> 00:03:43,409
you're doing a spacewalk or anything

90
00:03:48,289 --> 00:03:46,620
else basically all the crew members at

91
00:03:52,759 --> 00:03:48,299
some point are going to be helping us do

92
00:03:55,039 --> 00:03:52,769
the transfer of the transfer and the the

93
00:03:57,589 --> 00:03:55,049
pack of the MPN during the next couple

94
00:04:00,319 --> 00:03:57,599
days it is pretty much an all hands on

95
00:04:01,580 --> 00:04:00,329
deck we have about 10,000 pounds of

96
00:04:03,500 --> 00:04:01,590
cargo that we need to move out of the

97
00:04:05,539 --> 00:04:03,510
NPM and then we have to move all the

98
00:04:07,430 --> 00:04:05,549
items that were returning back into the

99
00:04:09,020 --> 00:04:07,440
MPL em before we on berthoud here in the

100
00:04:11,030 --> 00:04:09,030
next couple days so it's going to be a

101
00:04:12,680 --> 00:04:11,040
very busy time period for and that's

102
00:04:14,420 --> 00:04:12,690
what this mission for its it's a

103
00:04:15,530 --> 00:04:14,430
utilization logistics mission and we

104
00:04:21,420 --> 00:04:15,540
want to make sure we get all that cargo

105
00:04:28,240 --> 00:04:25,480
Irene Klotz with Reuters what is the

106
00:04:31,140 --> 00:04:28,250
plan for the shuttles docking node on

107
00:04:34,719 --> 00:04:31,150
the station after Atlanta sleeves oh

108
00:04:39,010 --> 00:04:34,729
you're referring to the PMA the PMA yeah

109
00:04:41,200 --> 00:04:39,020
3 the PMA 3 is designed for the orbiter

110
00:04:43,570 --> 00:04:41,210
docking system so after that we're

111
00:04:44,469 --> 00:04:43,580
essentially just going to we're not

112
00:04:46,270 --> 00:04:44,479
going to be docking to it anymore

113
00:04:47,650 --> 00:04:46,280

because we don't have a compatible

114
00:04:50,589 --> 00:04:47,660
docking mechanism for any of our other

115
00:04:52,180 --> 00:04:50,599
visiting vehicles so we're going to take

116
00:04:54,610 --> 00:04:52,190
it and we're going to use it for storage

117
00:04:57,279 --> 00:04:54,620
and we're going to that's one of the

118
00:04:58,540 --> 00:04:57,289
main challenges we have right on right

119
00:05:00,610 --> 00:04:58,550
now because we're bringing up all this

120
00:05:03,550 --> 00:05:00,620
cargo and all the other cargo vehicles

121
00:05:04,990 --> 00:05:03,560
had recently visited we need places to

122
00:05:09,040 --> 00:05:05,000
put things so we're going to be putting

123
00:05:11,890 --> 00:05:09,050
some equipment in there that can be

124
00:05:13,839 --> 00:05:11,900
taken down to lower temperatures that

125
00:05:15,730 --> 00:05:13,849
the PMA environment would see so it's

126
00:05:18,490 --> 00:05:15,740
going to be used for storage there's no

127
00:05:20,770 --> 00:05:18,500
plans to attach anything else to it that

128
00:05:25,930 --> 00:05:20,780
could be used for another vehicle at any

129
00:05:27,909 --> 00:05:25,940
point not at this time the apts are the

130
00:05:30,310 --> 00:05:27,919
ODS the orbiter docking system isn't

131
00:05:34,409 --> 00:05:30,320
compatible with any other docking system

132
00:05:37,029 --> 00:05:34,419
whether it's a Soyuz progress atv HTV

133
00:05:38,529 --> 00:05:37,039
and my understanding is neither neither

134
00:05:40,629 --> 00:05:38,539
the Cygnus or the orbital vehicles will

135
00:05:42,909 --> 00:05:40,639
talk to that and not just a real quick

136
00:05:47,620 --> 00:05:42,919
is it correct to call what you did with

137
00:05:49,510 --> 00:05:47,630
GP c 3 a reboot we call it an IPL which

138
00:05:52,149 --> 00:05:49,520

is an initial program load but we're

139
00:05:53,830 --> 00:05:52,159
basically taking the software that

140
00:05:55,270 --> 00:05:53,840
resides what's called on the mass memory

141
00:05:57,480 --> 00:05:55,280
unit which would be like a hard drive

142
00:06:00,010 --> 00:05:57,490
and taking that information and

143
00:06:02,110 --> 00:06:00,020
reloading it so it's more like a real a

144
00:06:03,899 --> 00:06:02,120
little evoo and the last question I had

145
00:06:06,459 --> 00:06:03,909
is on before every shuttle launch

146
00:06:08,290 --> 00:06:06,469
there's a risk assessment for orbital

147
00:06:11,950 --> 00:06:08,300
debris for shuttle do you have that for

148
00:06:15,399 --> 00:06:11,960
station as well and has that what is it

149
00:06:16,659 --> 00:06:15,409
what is it currently I think that let me

150
00:06:18,969 --> 00:06:16,669
make sure that I understand the question

151
00:06:21,370 --> 00:06:18,979
you're asking if we're overall do we do

152
00:06:24,939 --> 00:06:21,380
a risk assessment for the total debris

153
00:06:28,060 --> 00:06:24,949
in there the for shuttle there's a risk

154
00:06:31,100 --> 00:06:28,070
of a you know catastrophic failure due

155
00:06:33,740 --> 00:06:31,110
to debris impact orbital debris impact

156
00:06:35,900 --> 00:06:33,750
300 and something I don't know what it

157
00:06:38,390 --> 00:06:35,910
is exactly permission but I was just

158
00:06:41,350 --> 00:06:38,400
curious if there is a similar risk

159
00:06:44,300 --> 00:06:41,360
assessment for overall probability of

160
00:06:45,460 --> 00:06:44,310
station risk I know we do risk

161
00:06:47,330 --> 00:06:45,470
assessments and we're constantly

162
00:06:49,880 --> 00:06:47,340
re-evaluating that and we do the risk

163
00:06:52,280 --> 00:06:49,890

assessments continuously as the orbital

164
00:06:54,920 --> 00:06:52,290
debris environment changes I do not have

165
00:06:56,720 --> 00:06:54,930
the number right now but I'll work to

166
00:06:59,270 --> 00:06:56,730
get you that number and find out what it

167
00:07:01,100 --> 00:06:59,280
is for station but I know it's it's a

168
00:07:07,060 --> 00:07:01,110
variable number based on how the

169
00:07:12,470 --> 00:07:10,190
Denise Chow at space com earlier I think

170
00:07:14,210 --> 00:07:12,480
it was said that when land has docked at

171
00:07:16,670 --> 00:07:14,220
the station it may have helped boost

172
00:07:18,350 --> 00:07:16,680
station out of the way of this orbital

173
00:07:20,660 --> 00:07:18,360
debris could you explain a bit about how

174
00:07:22,220 --> 00:07:20,670
that works um actually I think it was

175
00:07:24,770 --> 00:07:22,230
the the other way around i think the

176
00:07:26,300 --> 00:07:24,780
original concern was that because the

177
00:07:29,990 --> 00:07:26,310
way that we were docking would actually

178
00:07:32,450 --> 00:07:30,000
push us a little bit closer to the to

179
00:07:35,770 --> 00:07:32,460
the debris so obviously when you you

180
00:07:38,960 --> 00:07:35,780
take a take the station in its holding a

181
00:07:41,720 --> 00:07:38,970
certain attitude certain orbit and you

182
00:07:43,970 --> 00:07:41,730
take the shuttle which is a very big

183
00:07:46,850 --> 00:07:43,980
object and kind of bump it into it it's

184
00:07:48,320 --> 00:07:46,860
going to give it a change in the Delta

185
00:07:52,370 --> 00:07:48,330
velocity a little which impacts

186
00:07:54,230 --> 00:07:52,380
our overall dell altitude so after we

187
00:07:56,800 --> 00:07:54,240
had a couple orbits after docking to

188
00:07:59,900 --> 00:07:56,810

evaluate essentially our new trajectory

189
00:08:01,550 --> 00:07:59,910
we compared it to the orbital Tabriz

190
00:08:03,950 --> 00:08:01,560
directory and make sure that we're we

191
00:08:07,400 --> 00:08:03,960
were cleared so did I answer your

192
00:08:12,470 --> 00:08:07,410
question thank you do we have additional

193
00:08:14,120 --> 00:08:12,480
questions here in Houston is Dan just to

194
00:08:15,830 --> 00:08:14,130
follow up on that and do you have an

195
00:08:18,140 --> 00:08:15,840
idea how big the Delta V was from that

196
00:08:19,550 --> 00:08:18,150
and is it the actual bumping that's

197
00:08:21,680 --> 00:08:19,560
doing it or is it changing the center of

198
00:08:23,540 --> 00:08:21,690
the mass somehow adjust the trajectory

199
00:08:26,300 --> 00:08:23,550
you know for the combined station is

200
00:08:27,770 --> 00:08:26,310
shuttle my understanding it's the way

201
00:08:30,470 --> 00:08:27,780
you're actually correct it's actually

202
00:08:32,690 --> 00:08:30,480
both we actually do change the CG of it

203
00:08:34,969 --> 00:08:32,700
because you're putting the or on the end

204
00:08:36,680 --> 00:08:34,979
of it and as far as the actual Delta V

205
00:08:37,649 --> 00:08:36,690
I'd had to go ask my my specialist that

206
00:08:39,409 --> 00:08:37,659
question but I

207
00:08:44,490 --> 00:08:39,419
but I think it's a combination about

208
00:08:46,050 --> 00:08:44,500
Gina Gina sincere ABC News are you going

209
00:08:49,590 --> 00:08:46,060
to keep the space station at this high

210
00:08:52,740 --> 00:08:49,600
in orbit I mean long-term yeah that's

211
00:08:55,079 --> 00:08:52,750
the goal is to keep it in about that 300

212
00:09:00,689 --> 00:08:55,089
range would you explain that a little

213
00:09:03,990 --> 00:09:00,699

bit for me there is a it all goes into

214
00:09:05,790 --> 00:09:04,000
the evaluation of the vehicles that

215
00:09:07,679 --> 00:09:05,800
we're going to have visiting in the

216
00:09:11,639 --> 00:09:07,689
future and what's the optimum altitude

217
00:09:13,619 --> 00:09:11,649
for those rendevouz to a workout so we

218
00:09:16,350 --> 00:09:13,629
have progress as we have so used as I

219
00:09:18,300 --> 00:09:16,360
mentioned a TV HD vs so the program made

220
00:09:20,850 --> 00:09:18,310
an assessment on which orbits we wanted

221
00:09:22,710 --> 00:09:20,860
to fly and when you add a little bit of

222
00:09:25,350 --> 00:09:22,720
a higher altitude you have a little bit

223
00:09:27,809 --> 00:09:25,360
of lesser drag on the vehicle as well so

224
00:09:30,059 --> 00:09:27,819
if we get up a little bit higher means

225
00:09:32,160 --> 00:09:30,069
that we have to do less frequent reboost

226
00:09:33,360 --> 00:09:32,170
so if you had a lower altitude you're

227
00:09:34,679 --> 00:09:33,370
always dragging a little bit more so I

228
00:09:36,509 --> 00:09:34,689
always have to kind of bump the attitude

229
00:09:39,329 --> 00:09:36,519
a little bit so balanced with all our

230
00:09:42,090 --> 00:09:39,339
vehicle traffic and trying to save our

231
00:09:44,600 --> 00:09:42,100
reboost our propulsion prop that was the

232
00:09:46,850 --> 00:09:44,610
altitude that the program said to go up

233
00:09:48,960 --> 00:09:46,860
okay anything else there in Houston

234
00:09:54,269 --> 00:09:48,970
seeing no further questions here we'll

235
00:09:56,189 --> 00:09:54,279
go to Kennedy Space Center hello this is

236
00:09:58,590 --> 00:09:56,199
Marcia Dunn of the associated press with

237
00:10:00,720 --> 00:09:58,600
a few questions I just wanted to make

238
00:10:04,769 --> 00:10:00,730

sure that the net effect of the docking

239
00:10:08,389 --> 00:10:04,779
yesterday actually bumped the holes both

240
00:10:12,720 --> 00:10:08,399
spacecraft up just a tad is that correct

241
00:10:14,610 --> 00:10:12,730
it changed our can't say if it went up

242
00:10:17,790 --> 00:10:14,620
or down but it did change our orbit

243
00:10:20,549 --> 00:10:17,800
enough that it did not become a concern

244
00:10:23,429 --> 00:10:20,559
for the debris so taking a look at our

245
00:10:25,470 --> 00:10:23,439
new trajectory versus worthy objects

246
00:10:28,019 --> 00:10:25,480
trajectory was and when we crossed paths

247
00:10:29,340 --> 00:10:28,029
with it it's it's no longer concern the

248
00:10:31,259 --> 00:10:29,350
total miss distance as I mentioned

249
00:10:36,240 --> 00:10:31,269
before is around 18 kilometers so it's

250
00:10:38,850 --> 00:10:36,250
well outside our action box thank you

251
00:10:44,429 --> 00:10:38,860
and when when it comes time to start

252
00:10:45,809 --> 00:10:44,439
unloading the MP om this afternoon how

253
00:10:48,240 --> 00:10:45,819
are they going to decide what comes out

254
00:10:51,210 --> 00:10:48,250
first is it high priority items first is

255
00:10:53,699 --> 00:10:51,220
it the the containers closest to the hat

256
00:10:55,259 --> 00:10:53,709
that come out first or maybe in the back

257
00:10:56,939 --> 00:10:55,269
could you explain that a little please

258
00:11:02,730 --> 00:10:56,949
actually it's a it's a very

259
00:11:04,710 --> 00:11:02,740
choreographed show that we do there in

260
00:11:07,290 --> 00:11:04,720
regards to the unpacking we have what is

261
00:11:09,329 --> 00:11:07,300
called a transfer list it's not only

262
00:11:11,009 --> 00:11:09,339
high priority items but what's in front

263
00:11:13,230 --> 00:11:11,019

first but also where we're going to be

264
00:11:15,540 --> 00:11:13,240
putting the items in station so we

265
00:11:17,610 --> 00:11:15,550
actually may pull items out of the front

266
00:11:19,439 --> 00:11:17,620
of the npl em temp stow it in the

267
00:11:22,110 --> 00:11:19,449
location to get to some higher priority

268
00:11:23,759 --> 00:11:22,120
items and then later on go back at those

269
00:11:25,350 --> 00:11:23,769
items that we temp stoughton locations

270
00:11:28,019 --> 00:11:25,360
and put them in various locations

271
00:11:29,460 --> 00:11:28,029
throughout so it's actually a very well

272
00:11:32,340 --> 00:11:29,470
planned out choreographed and we have

273
00:11:36,509 --> 00:11:32,350
folks that specialize just in this

274
00:11:38,400 --> 00:11:36,519
transfer operation and could you run

275
00:11:39,749 --> 00:11:38,410
down a couple of the high priority items

276
00:11:42,420 --> 00:11:39,759
what are the first things that you'd

277
00:11:44,160 --> 00:11:42,430
like to see out of the MP om I think

278
00:11:45,379 --> 00:11:44,170
some of them usually that some of the

279
00:11:47,879 --> 00:11:45,389
higher priority rooms are actually

280
00:11:49,679 --> 00:11:47,889
regard to the crew crew preference items

281
00:11:51,150 --> 00:11:49,689
we like to make sure that we get those

282
00:11:53,400 --> 00:11:51,160
first especially if the crew has been

283
00:11:54,929 --> 00:11:53,410
waiting them for them for a while so we

284
00:11:58,679 --> 00:11:54,939
usually go after crew preference items

285
00:12:01,439 --> 00:11:58,689
first I believe that was our last

286
00:12:03,360 --> 00:12:01,449
question from Kennedy will go down to

287
00:12:08,309 --> 00:12:03,370
the phone bridge I believe we have todd

288
00:12:10,980 --> 00:12:08,319

halvorson on order today yeah todd

289
00:12:13,619 --> 00:12:10,990
halvorson of florida today with just a

290
00:12:19,379 --> 00:12:13,629
couple i was wondering if you could go

291
00:12:22,650 --> 00:12:19,389
over the most important content in your

292
00:12:26,369 --> 00:12:22,660
judgment in the VA tomorrow and why is

293
00:12:30,269 --> 00:12:26,379
this spacewalk important to the space

294
00:12:32,280 --> 00:12:30,279
station and i have a follow okay let me

295
00:12:33,840 --> 00:12:32,290
get a couple questions there let me give

296
00:12:35,490 --> 00:12:33,850
you my opinion what I think is the most

297
00:12:39,689 --> 00:12:35,500
important I think most important is

298
00:12:42,150 --> 00:12:39,699
we're getting the pump module back into

299
00:12:46,679 --> 00:12:42,160
the payload Bay to return back home so

300
00:12:49,619 --> 00:12:46,689
we can do the tte or the evaluation of

301
00:12:53,490 --> 00:12:49,629
why the pump module failure is folks by

302
00:12:55,319 --> 00:12:53,500
recall back last year in july period we

303
00:12:57,780 --> 00:12:55,329
had the pop module fail that took down

304
00:12:59,610 --> 00:12:57,790
half the external cooling on station so

305
00:13:01,470 --> 00:12:59,620
even we pulled that out we've been

306
00:13:03,210 --> 00:13:01,480
keeping a stored on the outside the

307
00:13:03,960 --> 00:13:03,220
station we're going to take that put it

308
00:13:06,329 --> 00:13:03,970
back in the pail

309
00:13:07,650 --> 00:13:06,339
and return it getting that back and

310
00:13:09,360 --> 00:13:07,660
understanding what the cause of that

311
00:13:12,030 --> 00:13:09,370
failure is is going to help us in the

312
00:13:14,939 --> 00:13:12,040
long run it may change how we operate

313
00:13:17,100 --> 00:13:14,949

the pumps on board and maybe there'll be

314
00:13:18,689 --> 00:13:17,110
some design changes in the end but we

315
00:13:21,809 --> 00:13:18,699
need to understand exactly what I why

316
00:13:24,420 --> 00:13:21,819
that pump module failed so in my mind

317
00:13:28,910 --> 00:13:24,430
and that's probably the most important

318
00:13:32,309 --> 00:13:28,920
portion of it as well as in regards to

319
00:13:34,530 --> 00:13:32,319
why the CVA is important I think that as

320
00:13:36,480 --> 00:13:34,540
I mentioned that the pup module getting

321
00:13:37,710 --> 00:13:36,490
that back is probably it is critical as

322
00:13:40,110 --> 00:13:37,720
well but we have some other stuff out

323
00:13:44,040 --> 00:13:40,120
there we need to do as well we're

324
00:13:45,829 --> 00:13:44,050
running some data lines to a grapple

325
00:13:48,480 --> 00:13:45,839
fixture that will allow us to put

326
00:13:49,949 --> 00:13:48,490
robotic arms in different locations a

327
00:13:54,650 --> 00:13:49,959
little bit closer on the Russian segment

328
00:14:01,559 --> 00:13:57,379
thanks and could you say where

329
00:14:04,259 --> 00:14:01,569
Commercial Crew space taxis will be

330
00:14:08,780 --> 00:14:04,269
docking when they eventually get to the

331
00:14:11,939 --> 00:14:08,790
space station would that be at PMA to or

332
00:14:14,970 --> 00:14:11,949
exactly where thanks yeah my

333
00:14:19,110 --> 00:14:14,980
understanding for the visiting vehicles

334
00:14:21,449 --> 00:14:19,120
that are birthing to the US OS segments

335
00:14:23,579 --> 00:14:21,459
are going to use a common berthing

336
00:14:26,759 --> 00:14:23,589
mechanism system as I mentioned earlier

337
00:14:30,179 --> 00:14:26,769
the the orbiter docking system which it

338
00:14:31,230 --> 00:14:30,189

currently resides on PMA to the vehicles

339
00:14:34,710 --> 00:14:31,240
aren't going to be designed for that

340
00:14:36,780 --> 00:14:34,720
that I'm aware of so we'd be doing a

341
00:14:43,410 --> 00:14:36,790
capture and berthing operation very

342
00:14:45,030 --> 00:14:43,420
similar to what we do for HTV and just a

343
00:14:48,629 --> 00:14:45,040
quick follow-up could you say where they

344
00:14:50,280 --> 00:14:48,639
would be birthed we'd be very similar to

345
00:14:53,519 --> 00:14:50,290
where we do now so it'd have to be an

346
00:14:55,619 --> 00:14:53,529
open port such as a no to NATO nordeen

347
00:15:01,079 --> 00:14:55,629
at some place where we have a common

348
00:15:02,730 --> 00:15:01,089
berthing mechanism for me IRA thank you

349
00:15:06,629 --> 00:15:02,740
do we have additional follow-ups here in

350
00:15:08,579 --> 00:15:06,639
Houston seeing none we'll conclude

351
00:15:10,230 --> 00:15:08,589
today's briefing you can follow

352
00:15:12,860 --> 00:15:10,240
activities of the International Space

353
00:15:23,580 --> 00:15:12,870
Station and the flight of Atlantis that

354
00:15:28,460 --> 00:15:26,510
hi I'm Dylan Hogan I'm John Paul

355
00:15:30,440 --> 00:15:28,470
I'm Bob swing and I'm Amanda cute we're